

# TIPS & TRICKS



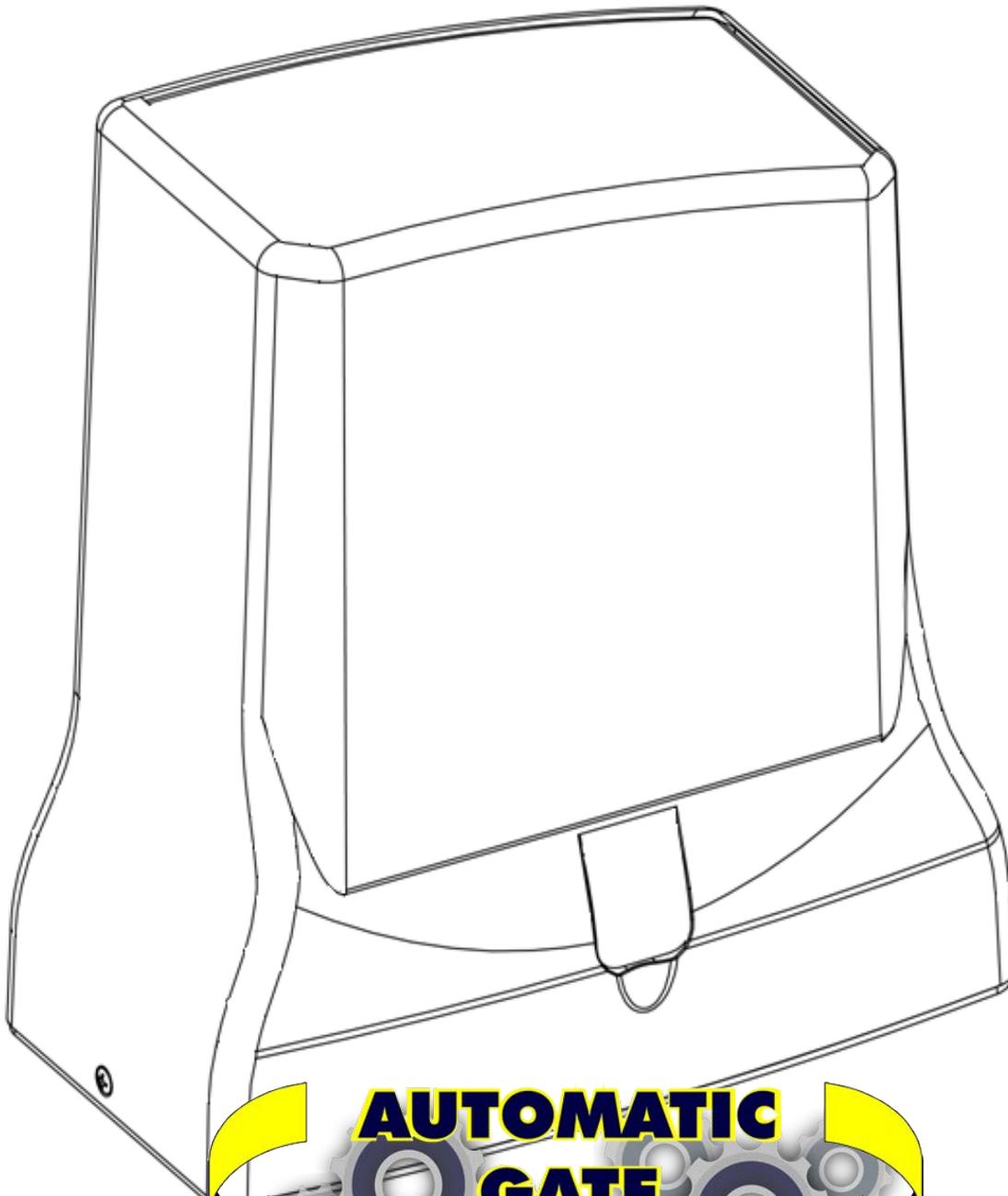
## ASA6 ID410

- **TIP** – You need solid opening and closing stops. The control board will search for these when programming. Make sure they have no movement or flex.
  - **TIP** – You need to fit three small loops of wire to your safety inputs to make anything work. These can be removed later if you install safety devices to these input terminals. But for now, take three pieces of light gauge wire (speaker or telephone wire is good) about 50mm long and strip both ends 7mm and insert them as above from 6 to 9, 7 to 9 and 12 to 13.
    - **TIP** - Ensure JP1 on the control board is set to the correct voltage for your system.
  - **TIP** – The transformer has two voltages. Use red and black for 12 volts or red and green for 24 volts. These connect to FS3 and FS4.
    - **TIP** – The manual offers both automatic programming and manual programming. Manual programming gives more control and is preferred by professional installers, but auto programming works just fine so give it a try first.
  - **TIP** – If using solar power refer to the manual for correct input power connection. Also get hold of a copy of the solar power tips n tricks.
  - **TIP** – This control board has a higher level of security than previous versions and will not accept older style remote controls. Use REMGR only.
    - **TIP** – If using wireless keypad KEYPADP6 set it to 20Bit mode to work with this board.
- CONVERTING FROM AN OLD K50 OR CTR50**
- The terminals from J1 (left side) are now terminals 16 to 21 (right side)
    - The terminals from J2 (middle) are now terminals 3 to 9 (left side)
  - Your power input and battery connect to the same terminals as the old K50 or CTR50.
  - As your installation used the K50 / CTR50 board your mechanical stops should all be in place so you might find it easiest to program using the “AU” method (automatic). You can make adjustments via the menu from there. Just be certain to start with the gates in the fully open position.



# GR6-8EU0

*MOTOR FOR SLIDING GATES*



[www.automaticgatesolutions.com.au](http://www.automaticgatesolutions.com.au)

G.R. SISTEMI AUTOMATICI DI APERTURA SRL

## INSTALLATION MANUAL

Our compliments for your excellent choice. The GR6-8 electro-mechanical gear motor has been produced for reliability and high quality. This Manual will offer information you may need to install your gear motor assuring long-lasting performance and to safeguard your safety. HOWEVER CAUTION IS UNQUESTIONABLY INDISPENSABLE AND NOTHING IS BETTER THAN PREVENTING ACCIDENTS. GR products have been made to conform with rules and laws in force at time of manufacture.

 This manual is designed exclusively for the specialized installation expert in the criteria of construction and equipment to assist in the protection against accidents in the installation and use of the gate; door and automation of such gates (adhere to the rules and laws in force).

 On completion the installer should issue to the end consumer an instruction manual according to EN 12635.

 Before proceeding with the installation the installer must provide an analysis of the identification and management of risks as per the standards EN 12453 and EN 12445.

 All wiring of the various external electrical components connected to the automation (e.g. Photocells, flashing lights, keypads etc) must be carried out according to EN 60204-1 and the amendments made of the point 5.2.2 of EN 12453.

 It is prohibited to do any repair or adjustment of the equipment if you have not taken all necessary precautions to avoid possible accidents (example: power supply disconnected, engine block). All mechanisms in motion must be equipped with appropriate protections.

 The mains power line must be protected for maximum current in locked rotor condition as per government electrical laws.

 Install the gear motor on gates that conform to EN 12604.

 Perform the measure of strength developed by the gear motor and take the appropriate steps as per EN 12445.

 Positioning photocells: These safety devices must be installed at a height not exceeding 70cm from the ground and at a distance from the floor movement of the door of no more than 20cm. Their proper functioning of the photocells must be verified at the end of installation according to Section 7.2.1 of EN12445.

 Keep the activation controls of automation out of reach of children. The controls should be installed at a minimum 1.5m height above the ground and outside the range of actions of moving parts such as the gate.

 All activation actions must be executed only at points from where the automation is fully visible.

 Operate the remote only in view of automation.

 Store carefully this manual in a suitable place known to all interested people.

 Any unauthorized and arbitrary modification made to this product, releases the company GR SISTEMI AUTOMATICI DI APERTURA Srl and from any liability resulting from damage or injury to things, people or animals.

 The non-observance of regulations and of safety standards here listed releases the company GR SISTEMI AUTOMATICI DI APERTURA Srl from any liability resulting from damage or injury to things, people or animals.

 The automation must be coupled to a control board equipped with torque regulation that provides an anti crushing safety as described in EN 12453 - EN 12445

### CONFORMITY DECLARATION:

It's in accordance with Machine Directive 39/89/CE and following modify.  
It's in accordance with the following directive CE:  
Electromagnetic compatibility Directive 89/336/CEE and following modify.  
Low tension Directive 73/23/CEE and following modify.  
Have been applied the following harmonized norms:  
EN292/1/2, EN 294, EN60335-1, UNI EN 12453, and what applicable of the EN12445-2000.

## DISMANTLING / REINSTALLING

This product falls within the scope of the Directive 2012/19 / EU concerning the management of waste electrical and electronic equipment (WEEE). The appliance must not be disposed of with domestic waste as it is made of different materials that can be recycled at the appropriate facilities. Inquire through the municipal authority regarding the location of the ecological platforms to receive the product for disposal and its subsequent correct recycling. Furthermore, it should be remembered that, upon purchase of an equivalent appliance, the distributor is obliged to collect the product for disposal free of charge. The product is not potentially dangerous for human health and the environment, not containing harmful substances, but if abandoned in the environment negatively impacts on the ecosystem. Read the instructions carefully before using the appliance for the first time. It is recommended that you do not use the product for any purpose other than that for which it was intended, there being a danger of electric shock if used improperly.

 The crossed-out bin symbol, on the label on the appliance, indicates the compliance of this product with the regulations regarding waste electrical and electronic equipment. Abandonment in the environment of the equipment or illegal disposal of the equipment is punishable by law.

To dismantle or reinstall the automation elsewhere, you need to:

- 1 - Disconnect the power supply and disconnect the electrical system.
- 2 - Remove the control panel and all the components of the installation. In the event that some components are damaged or unable to be removed, replace them.

### SAFETY RULES

During the installation and the use of the automation, pay attention to the following safety rules:

-  Distance security!
-  Mechanisms moving!
-  Do not install automation in an environment saturated with explosive mixtures!
-  Electric Shock!
-  Use gloves!
-  Use welding glasses!
-  Maintain ear protection!

### USE OF THE AUTOMATION

The gearmotor GR6-8 was designed and built for the opening of gates with weight max. 800kg. G.R. Srl assumes no responsibility for a purpose other than that provided by gearmotor GR6-8. Since automation can be put into motion in view by button or remotely by remote control, it is essential to check frequently the perfect efficiency of all safety devices. It is advisable to check periodically (every six months) the regulation of electronic friction of which must be equipped the electronic control board.

### TECHNICAL DATA

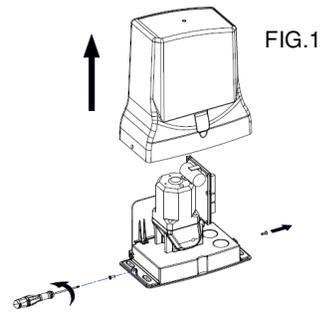
	GR6 12V	GR8 12V
<b>MAX. weight of the gate</b>	600Kg	800Kg
<b>Power supply</b>	12Vdc	12Vdc
<b>Nominal power</b>	190W	350W
<b>Absorption</b>	2.6A	2,5A
<b>RPM</b>	1400	1400
<b>Torque</b>	13,4Nm	21,2Nm
<b>Gate speed</b>	10,2m/min	10,2m/min
<b>Thermal protection</b>	150°C	150°C
<b>Working temp.</b>	-20°C +60°C	-20°C +60°C
<b>Lubrication</b>	GREASE	GREASE
<b>Protection IP</b>	IP44	IP44
<b>Use frequency</b>	65%	65%

**PRELIMINARY CHECKS**

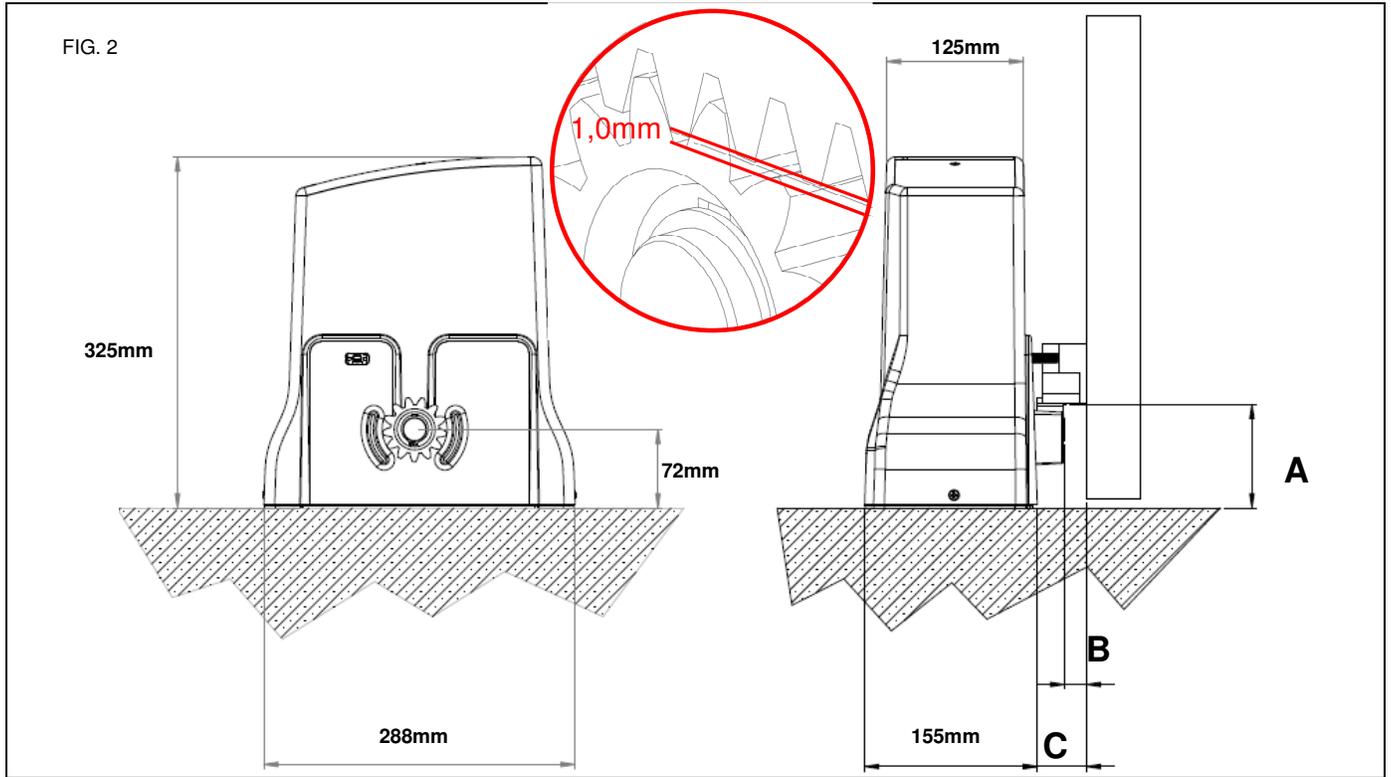
- Read the instructions in the manual carefully.
- Check that the gate is perfectly horizontal
- Check that it slides smoothly and without friction points
- Check that there is an adequate base for fixing the motor, otherwise prepare it
- Check that the electrical system complies with the characteristics required by the gearmotor

 The gearmotor is delivered UNLOCKED

- Remove the motor from the box, check that it is not damaged. Unscrew the screws A and B and remove the cover FIG.1



**INSTALLATION**



A = 105mm = VERTICAL DISTANCE BETWEEN THE TEETH OF THE RACK AND THE GROUND

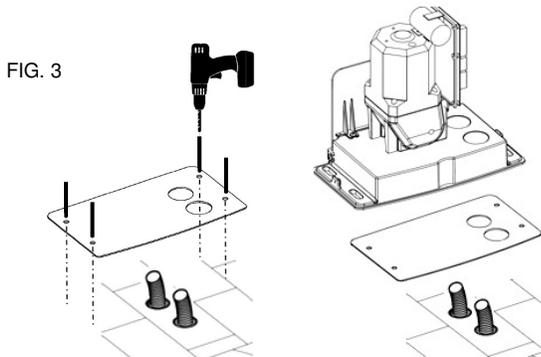
C = 55mm = HORIZONTAL DISTANCE BETWEEN THE BASE OF THE MOTOR AND THE GATE

B = 20mm = HORIZONTAL DISTANCE BETWEEN THE DRIVE WHEEL AND THE GATE

**FOUNDATION PLATE (OPTIONAL)**

If the base has yet to be prepared and the installation of the motor is not immediate, it is possible to cement the foundation plate (NOT INCLUDED) following the installation dimensions FIG.2

- Position the foundation plate as shown in FIG. 3



**GEARMOTOR POSITIONING**

If there is a concrete base already prepared, it is possible to install the motor, without using the foundation plate, following the installation dimensions in FIG. 2. In this case, suitable M10 screw anchors must be used

- Position the motor so that the cable outlets correspond to the appropriate holes on the motor body. FIG. 4

- Secure the motor to the ground with suitable anchors, using the slots provided FIG. 5.

Or if the foundation plate is installed, fix the motor to the 4 log bolts provided as shown in FIG.3.

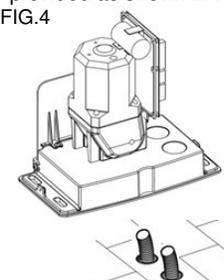
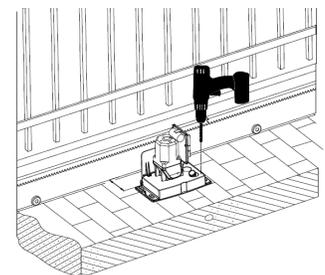
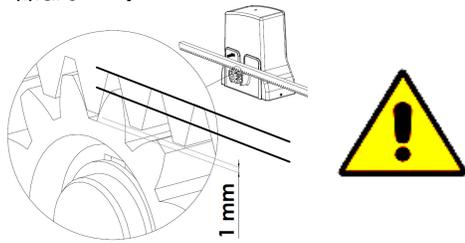


FIG.5



## INSTALLING THE RACK

If the rack is already installed, check that there is a space of approximately 1mm between the drive wheel and the rack FIG.5,

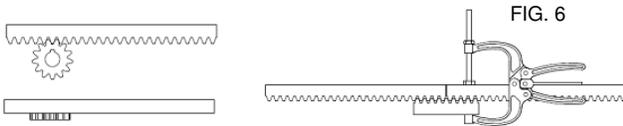


if the rack is not installed, proceed as follows:

– Take the first piece of rack and position it on the motor sprocket making sure that at the end of the installation there is always 1mm of space (if necessary use temporary shims under the motor). Slide it to the point indicated in FIG. 5

– Weld or screw the first pin or spacer to the gate (depending on the type of rack).

– Apply all the other elements of the rack so that they are perfectly joined and aligned with the first one. Use pliers and a piece of rack for perfect alignment of one element with the other. See FIG. 6

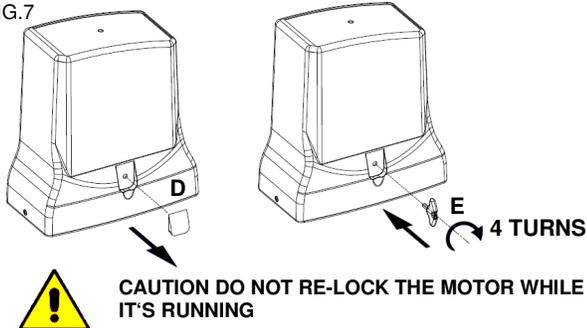


## EMERGENCY RELEASE

To unlock the motor proceed as follows:

- remove the cap D
- Insert the supplied key E and turn CLOCKWISE for 4 turns FIG.7
- To overturn the motor turn ANTICLOCKWISE for 4 turns

FIG.7



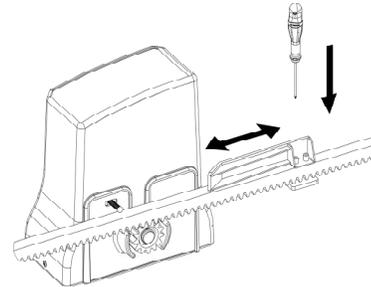
## FINAL OPERATIONS

Once the rack and motor have been fixed, release the motor see FIG.8, and move the gate to check that it slides freely and effortlessly.

**⚠ ATTENTION** vérifier qu'il ne "repose" pas sur la roue motrice du moteur. Dans ce cas, réglez la crémaillère pour laisser environ 1 mm d'espace entre le pignon du moteur et la crémaillère

– Install the limit switch cams on the rack FIG. 8 without fixing them in a definitive way, in order to be able to adjust them in the optimal position when programming the control unit.

FIG.8



**⚠ CAUTION** The limit switch cams are used to operate the limit switches of the motor which, by means of the control unit, interrupt the movement of the gate during opening and closing. They must be positioned at the ends of the rack taking into account any inertia and the delay in stopping the gate with respect to the operation of the limit switches.

– Proceed with the electrical connections, program the control unit, carry out the final test and reinstall the cover cards.

## SCHEDULED MAINTENANCE WARNINGS

- ⚠** Before any maintenance operation, disconnect the power using the main switch
- ⚠** The equipment must be maintained in such a way as to maintain the conditions that guarantee safety and correct operation
- ⚠** Always use original spare parts
- ⚠** Do not carry out any interventions that modify the machine
- ⚠** The modified machine needs a new CE mark
- ⚠** The adjustment of the function of the automation must be carried out by specialized personnel, in compliance with the relevant regulations. During these operations the presence of two operators is expected

## SCHEDULED MAINTENANCE - OPERATIONS

DESCRIPTION	FREQUENCY	ENTRUSTED	OPERATION
Photocells cleaning	Monthly	Operator	Clean with damp cloth
Control of the gate supports of the fall arrest devices, the limit stops, the rack, the sliding guide and the sliding of the gate	According to necessity	Operator	Check the integrity of all items, state of welds and corrosion. Unhook the motor and check the friction points of the gate and the distance between the pinion and rack (1.0mm).
Control of the sensitivity of the electronic clutch (torque regulation) of the control unit	Semiannual	Technician	Check the torque adjustment as indicated in the EN 12453 - EN 12445 standard
Control of the IP protection	Semiannual	Technician	Check that there are no traces of moisture or water inside the electrical enclosures
Monitoring current dispersion	Annual	Technician	Verify that the dispersion of current is less than 7.5 A
Control of signals	Semiannual	Operator	Verify that the safety warning signage is complete and intact





# ID410

## CONTROL BOARD FOR 1 MOTOR 12-24V

**IMPORTANT:** READ CAREFULLY THIS MANUAL BEFORE THE INSTALLATION. THIS MANUAL IS INTEGRAL PART OF YOUR PRODUCT, KEEP IT FOR REFERENCE.

### Warnings:

-  First of all verify that this product is suitable for the installation.
-  Read carefully technical characteristic before the installation.
-  Installation of this control unit must be properly done by qualified installers, following rules and regulations of installation country.
-  It's mandatory do periodic maintenance each 6 month.
-  Maintenance or repairing must be done by qualified Technicians.
-  Turn power off before maintenance or repairing.
-  This device is intended for gate automation, any other applications is strongly advised.
-  Not respecting of rules may cause serious damage to peoples, animals, things.
-  Manufacturer discharges all responsibility for missed respect of rules.
-  Don't let this control unit unattended or where children can reach

Preliminary checking: Before to install this control unit,

-  Verify that all the connected devices respect the technical characteristics mentioned in the table which follows.
-  Verify that a working and suitable life switch is installed upline the installation.
-  Verify that cables composing the installation, are suitable for it.

This product falls within the scope of the Directive 2012/19 / EU concerning the management of waste electrical and electronic equipment (WEEE). The appliance must not be disposed of with domestic waste as it is made of different materials that can be recycled at the appropriate facilities. Inquire through the municipal authority regarding the location of the ecological platforms to receive the product for disposal and its subsequent correct recycling. Furthermore, it should be remembered that, upon purchase of an equivalent appliance, the distributor is obliged to collect the product for disposal free of charge. The product is not potentially dangerous for human health and the environment, not containing harmful substances, but if abandoned in the environment negatively impacts on the ecosystem. Read the instructions carefully before using the appliance for the first time. It is recommended that you do not use the product for any purpose other than that for which it was intended, there being a danger of electric shock if used improperly.



**The crossed-out bin symbol, on the label on the appliance, indicates the compliance of this product with the regulations regarding waste electrical and electronic equipment. Abandonment in the environment of the equipment or illegal disposal of the equipment is punishable by law.**

The manufacturer:

Declares:

The control unit ID410 is compliant to following

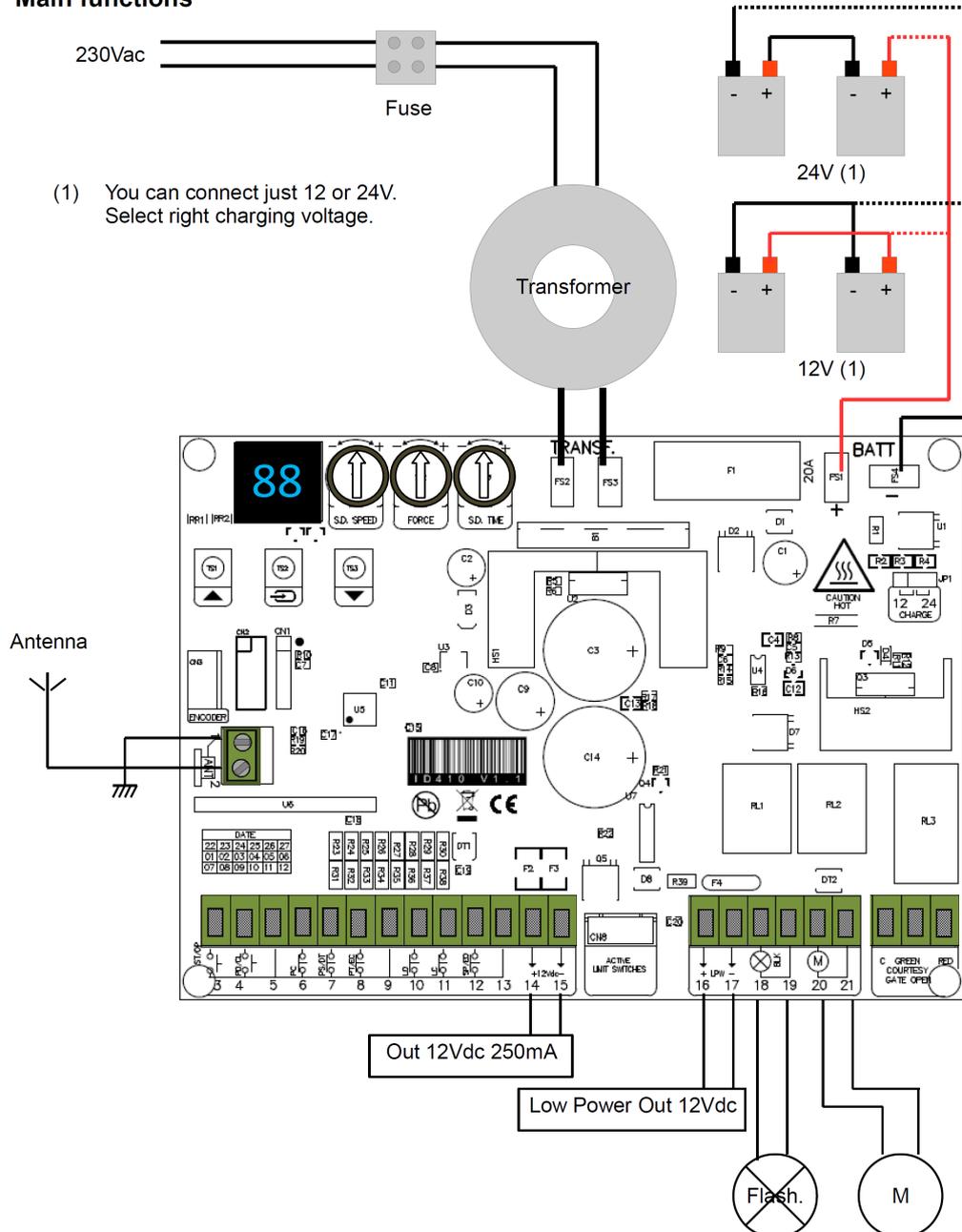
directives:

- 2006/95/CE Low voltage directive.
- 2004/108/CE Electromagnetic compatibility.

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TECHNICAL CHARACTERISTICS	
Power Supply	12-20Vac/100-200VA
Max. Current out (14-15)	250mA
Max. Current Low power out LPW	250mA
Embedded Battery charger	12/24V 100mA
Max motor current	16A (200VA transformer)
Max flashing light current	1A
Operating temperature range	-5 +60°C
Backup battery	(2x) 12V 4.5Ah / (1x) 12V 7Ah
Max codes	250

### Wiring Main functions



1	<b>Antenna</b>	16-17	Low power supply output 12Vdc 250mA (off in standby and gate closed).
2	Antenna's shield	18-19	Flashing light output (12/24Vdc, 1A, according to transformer output). With blinking or fix output. A very slow blinking it alerts for power failiture.
3	Start input N.O. or Open input N.O. (See menu operative logic "OL"). It completely opens the gate	20-21	Motor output.
4	Start Pedestrian input N.O. or Open input N.O. (See menu operative logic "OL"). It opens just 1 meter	TR1	Slowing down speed trimmer.
5	Common	TR2	Obstacle detection sensibility trimmer.
6	Photocells input N.C. or N.O (see advanced menu "pc"). During pause: Reloads pause During closing: Reverses motors direction	TR3	Slow down time trimmer.
7	Photostop input N.C. or Detect input N.O. (see advanced menu "5F"). During pause: Reloads pause During closing: Reverses motors direction During opening: stops the motors and waits till contact returns close.	TS1-TS3	Buttons up/down
8	Closing Edge input (see advanced menu "EC"). Waiting an opening command: inhibits opening During opening: reverses motor direction for 1 second. If not used left unconnected.	TS2	Enter button
9	Common	DSP	Display
10	Limit Switch open. Letting unconnected both limit switches they are automatically disabled	FS3-FS4	Transformer input 12-20Vac / 100-200VA
11	Limit Switch close. Letting unconnected both limit switches they are automatically disabled.	F2	Battery fuse 10A Fast
12	Stop input NC or NO (see advanced menu 5P), or Opening edge input (see advanced menu "Eo").		
13	Common	FS1-FS2	Backup battery input 12/24Vdc
14-15	Aux power supply output 12Vdc 250mA.	JP1	Charger voltage selector for backup battery: 12/24Vdc

#### INPUT STATUS

When the control unit is in standby, user can read inputs status on display:

--	No inputs active.	5T	Start input active.
5p	Stop input active.	PD	Pedestrian input active.
P5	Photostop input active.	op	Open input active.
EO	Analog edge opening input active.	CL	Close input active.
EC	Analog edge closing input active.	fO	Limit switch open.
DT	Detect input active.	fC	Limit switch close.
pc	Photocells input active.		
During pause, the display show the seconds countdown to closing.			

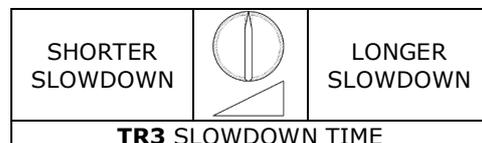
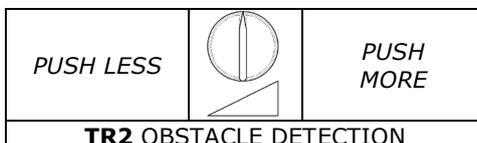
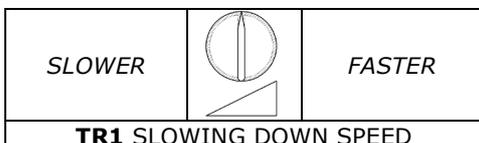
## TRIMMER SETTINGS

**TR1** Slow down speed trimmer regulates the slow down speed. Do not set speed to low (less than 10cm/sec on the wing edge) to avoid that gate stops in too cold conditions.

**TR2** Obstacle sensibility trimmer fine tunes the obstacle detection level learned by the control unit during working times programming. This fine regulation must be do after working times learning.

**TR3** Regulates the slowdown time lasting.

 **Attention:** during first 2 seconds after start, the motor pushes at 100% of its power (Boost power).



## USE OF DOWN MENU AND UP BUTTONS FOR PROGRAMMING

Control unit function programming is made within a special configuration menu, to which you can access and where you can shift through DOWN, MENU and UP keys placed under the display.

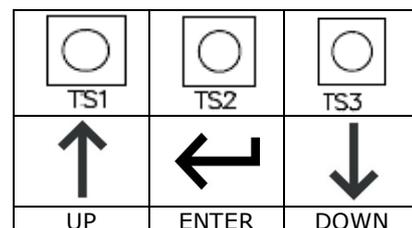
The configuration menu consists in a list of configurable items; the display shows the selected item.

- By pressing DOWN, you will pass to the next item
- By pressing UP, you will return to the previous item
- By pressing together UP and DOWN buttons you exit from the item
- By pressing MENU, you can view the current value of selected item and possibly change it.

There are 2 main menus:

- **BASE PROGRAMMING (MAIN MENU):** only the useful parameters for a base programming are displayed.

- **ADVANCED PROGRAMMING (ADVANCED MENU):** parameters of the advanced menu are displayed.



## BOARD PROGRAMMING

### Quick installation

Put the automation **completely closed** before starting the learning procedure, the equipment will recognize the active limit switch as a closing limit switch, and will set the direction parameter automatically (See parameter "GD" in the advanced menu)

### Quick radio code learning:

Push DOWN button, "c1" will appear on display. Transmit with the remote to be learn as Start or Open command (according to "OL" menu). Push more time DOWN to select other channels (c1 – Start/Open, c2 – Pedestrian/Close, c3 – Courtesy light on).

### Quick radio code erasing:

Hold down DOWN button up to on display it appears "OK" (5 seconds about), then release the button. All codes are now erased.

### Transmitters auto learning:

It's possible to learn transmitters quickly without using the base menu. To insert a new transmitter, transmit 3 times with the new remote, making at least 1 second pause between each transmission. Then transmit 3 times with a transmitter already in memory and then once with the new. When programming is done, the blinker flash once.

Attention: function must be enabled, refer to "advanced menu" - auto learning transmitters. The new code takes the same channel as the one used to insert it.

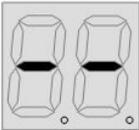
### Mass entering mode.

In this mode, if you push 5 times Open command (example), the control unit count 5 cars passing through the detect sensor, then it closes the barrier. This mode must be enabled in advanced menu (MM). This mode can be enabled just when pause time is 0, this means when automatic closing is disabled.

## MAIN MENU

Push Enter button shortly, on the display will appear OL. With up/down it's possible to select all items in this menu. To exit this menu select EX or push up and down together. After 20 seconds without actions, control unit exits itself from this menu.

## MAIN MENU MAP

 <p>PRESS SHORTLY</p>	<b>OL</b>	Operating logic		<b>5T</b>	Step by step logic.
				<b>At</b>	Step by step with automatic closing.
				<b>CD</b>	Automatic closing for condominium function.
				<b>OC</b>	Open / Close mode (Start and Pedestrian inputs become Open and Close inputs).
				<b>oa</b>	Open / Close mode with automatic closing (Start and Pedestrian inputs become Open and Close inputs).
				<b>EX</b>	EXIT or push  together



<b>LC</b>	Learning/ removing transmitters		<b>C1</b>	Learn Start / Open command (according to OL menu).
			<b>C2</b>	Learn Pedestrian / Close command (according to OL menu).
			<b>C3</b>	Learn Courtesy light (see advanced menu LX).
			<b>C4</b>	STOP command
			<b>NOTE:</b> Each time a code is learnt, on the display is shown the memory position for a while	
			<b>rt</b>	Removing a remote transmitting its own code.
			<b>rN</b>	Removing a remote according to memory position.
			<b>rA</b>	Removing all the remotes, must confirm with "Y5"
			<b>EX</b>	EXIT or push  together



<b>LT</b>	Learn working times		 <b>Attention:</b> if you are not sure of the direction of the sliding/barrier, put the automation <b>completely closed</b> before starting the learning procedure, the equipment will recognize the active limit switch as a closing limit switch, and will set the direction parameter automatically (See parameter "GD" in the advanced menu)
			If the gate/barrier is not fully closed, the equipment will close it in search of the closing limit switch. Subsequently, the equipment will open the gate/barrier until it is completely open and finally close it one last time.  The flashing light stays ON while learning the work times.
<b>EX</b>			EXIT or push  together



<b>5P</b>	Set pause time		 0 – 99
<b>5P</b> Set pause time: Use up/down to set the pause time between 0 and 99 seconds. Push enter to confirm. To exit without modifications push together up and down. <b>Attention,</b> setting a pause time doesn't enables automatic closing, please refer to chapter "OL operating logic" to enable this function			



<b>F5</b>	Fast Speed		Set max. speed 3 – 10
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<b>DM</b>	Dead man mode		<b>Op</b>	Open motor
			<b>Cl</b>	Close motor

		↓↑	EX	EXIT or push ↓↑ together
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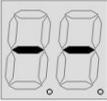
EX	Exit	←
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### ADVANCED MENU

To enter advanced menu hold down enter button 4 seconds, till on display it appear TM. With up/down it's possible to select all items in this menu. To exit this menu select EX or push up and down together.

After 20 seconds without actions, control unit exits itself from this menu.

### ADVANCED MENU MAP

 <p>← 4 SEC.</p>	tm	Working times	← ↓↑	T1	Working time in seconds	↓↑ 0 - 99 ←
				TP	Pedestrian time	
				tc	Courtesy light time (x 10 sec)	
				ex	EXIT or push ↓↑ together	

**Attention:** For the motors times you can set time longer than 2 digits. When the value is over 100 the decimal dot point of 2<sup>nd</sup> digit will be on.  
 Example: 15. = 115.  
 When the value is over 200 both the the decimal dots are on.  
 Example: 1.2. = 212.



gd	Gate direction	← ↓↑	Rh	Gate direction RIGHT
			Lf	Gate direction LEFT
			ex	EXIT or push ↓↑ together

**Attention:** if you aren't sure about the direction of the gate, set the gate fully closed before to start the working time learning(See working time programming)



PC	Photocell mode	← ↓↑	NC	Normally close
			No	Normally open
			ex	EXIT or push ↓↑ together

**Attention:** Rules of several countries forbid to use safety systems with N.O. Output. Please be sure of safety regulations of your country before to modify this parameter.



5p	Stop mode	← ↓↑	NC	Normally close
			No	Normally open
			ex	EXIT or push ↓↑ together

**Attention:** Rules of several countries forbid to use safety systems with N.O. Output. Please be sure of safety regulations of your country before to modify this parameter.



L5	Limit switches mode	← ↓↑	NC	Normally close
			No	Normally open
			ex	EXIT or push ↓↑ together



5f	Safety input mode	← ↓↑	P5	Photostop mode N.C. (Photocell operating in opening mode too)
			dt	Detect mode N.O.(Photocell for rapid close after the car has passed through the gate)
			ex	EXIT or push ↓↑ together



<b>Eo</b>	Opening edge		<b>D5</b>	Edge input disabled, this inputs works as STOP.
			<b>no</b>	Edge input in Normally Open mode.
			<b>nc</b>	Edge input in Normally Close mode.
			<b>an</b>	Edge input in 8K2 analog mode.
			<b>5p</b>	Transform the opening edge input in STOP input
			<b>ex</b>	EXIT or push  together
<b>ec</b>	Closing edge		<b>D5</b>	Edge input disabled, this inputs works as STOP.
			<b>no</b>	Edge input in Normally Open mode.
			<b>nc</b>	Edge input in Normally Close mode.
			<b>an</b>	Edge input in 8K2 analog mode.
			<b>5p</b>	Transform the closing edge input in STOP input
			<b>ex</b>	EXIT or push  together
<b>55</b>	Soft start		<b>Y5</b>	Soft start enabled.
			<b>nt</b>	Soft start disabled.
			<b>ex</b>	EXIT or push  together
<b>bl</b>	Blinker mode		<b>Y5</b>	Blinker light with flashing output.
			<b>nt</b>	Blinker light with fix on output.
			<b>ex</b>	EXIT or push  together
<b>lh</b>	Light mode		<b>cr</b>	Light output as courtesy light.
			<b>0g</b>	Light output as open gate light.
			<b>gr</b>	Light output as traffic light.
			<b>ex</b>	EXIT or push  together
<b>D2</b>	Reset to factory defaults		<b>Y5</b>	Selecting Y5 the factory default are restored. <b>Attention:</b> This function doesn't delete radio codes.
			<b>nt</b>	Maintain settled parameters
			<b>ex</b>	EXIT or push  together
<b>ar</b>	Automatic remotes learning		<b>Y5</b>	Automatic remotes learning enabled.
			<b>nt</b>	Automatic remotes learning disabled
			<b>ex</b>	EXIT or push  together
<b>rm</b>	Radio mode		<b>1b</b>	Each radio button is learned separate. The installer can choose how to learn a code: (c1 Start/Open, c2 Pedestrian/close).
			<b>4b</b>	Learning a button of a remote, let all the other 3 buttons being learn automatically.
			<b>ex</b>	EXIT or push  together
<b>cn</b>	Cycles counter		-	Shows cycle counter in 3 group of 2 digits. Example: 123.456 is shown as: 1.2 - 34. - 56
			<b>ex</b>	EXIT or push  together



<b>mm</b>	Mass mode	 	<b>Y5</b>	Enables the Mass entering mode
			<b>nt</b>	Disables Mass mode
			<b>ex</b>	EXIT or push  together
<p>MM MASS MODE - In this menu you can enable the mass enter mode. This mode can be enabled just when pause time is 00, this means when automatic closing is disabled. In this mode, if you push 5 times Open command (example), the control unit count 5 cars passing through the detect sensor, then it closes the barrier.</p>				



<b>br</b>	Barrier mode	 	<b>Y5</b>	Enables Barrier mode.
			<b>nt</b>	Sliding gate mode.
			<b>ex</b>	EXIT or push  together



<b>EX</b>	Exit	
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### MAIN MENU QUIK TABLE

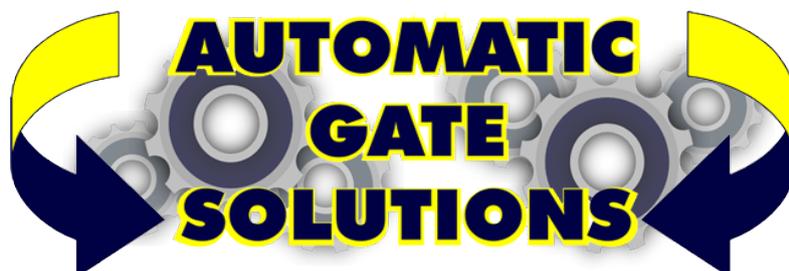
DISPLAY	DESCRIPTION	DATA	DESCRIPTION	DEFAULT	DATA
<b>oL</b>	Operating logic	<b>5T</b>	Step by step logic.	<b>5T</b>	
		<b>At</b>	Step by step with automatic closing.		
		<b>CD</b>	Automatic closing for condominium function.		
		<b>OC</b>	Open / Close mode (Start and Pedestrian inputs become Open and Close inputs).		
		<b>oa</b>	Open / Close mode with automatic closing (Start and Pedestrian inputs become Open and Close inputs).		
		<b>EX</b>	EXIT		
<b>LC</b>	Learning/ removing transmitters	<b>C1</b>	Learn Start / Open command (according to OI menu).	-	
		<b>C2</b>	Learn Pedestrian / Close command (according to OI menu).		
		<b>C3</b>	Learn Courtesy light (see advanced menu LX).		
		<b>C4</b>	STOP command		
		<b>rt</b>	Removing a remote transmitting its own code.		
		<b>rN</b>	Removing a remote according memory position.		
		<b>rA</b>	Removing all the remotes, must confirm with "Y5"		
		<b>EX</b>	EXIT		
<b>LT</b>	Learn working times		Working time learning procedure	-	
		<b>EX</b>	EXIT or push  together		
<b>5P</b>	Set pause time		0 – 99	10	
<b>F5</b>	Fast Speed		Set max. speed 3 – 10	10	
<b>DM</b>	Dead man mode	<b>Op</b>	Open motor	-	
		<b>Cl</b>	Close motor		
		<b>EX</b>	EXIT		

**MAIN MENU QUIK TABLE**

<b>DISPLAY</b>	<b>DESCRIPTION</b>	<b>DATA</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>
<b>tm</b>	Working times	<b>T1</b>	Working time in seconds	180	
		<b>TP</b>	Pedestrian time	08	
		<b>tc</b>	Courtesy light time (x 10 sec)	12	
		<b>ex</b>	EXIT		
<b>gd</b>	Gate direction	<b>Rh</b>	Gate direction RIGHT	rh	
		<b>Lf</b>	Gate direction LEFT		
		<b>ex</b>	EXIT		
<b>PC</b>	Photocell mode	<b>NC</b>	Normally close	nc	
		<b>No</b>	Normally open		
		<b>ex</b>	EXIT		
<b>5p</b>	Stop mode	<b>NC</b>	Normally close	nc	
		<b>No</b>	Normally open		
		<b>ex</b>	EXIT		
<b>L5</b>	Limit switches mode	<b>NC</b>	Normally close	nc	
		<b>No</b>	Normally open		
		<b>ex</b>	EXIT		
<b>5f</b>	Safety input mode	<b>P5</b>	Photostop mode N.C. (Photocell operating in opening mode too)		
		<b>dt</b>	Detect mode N.O.(Photocell for rapid close after the car has passed through the gate)	dt	
		<b>ex</b>	EXIT		
<b>Eo</b>	Opening edge	<b>D5</b>	Edge input disabled, this inputs works as STOP.	D5	
		<b>no</b>	Edge input in Normally Open mode.		
		<b>nc</b>	Edge input in Normally Close mode.		
		<b>an</b>	Edge input in 8K2 analog mode.		
		<b>5p</b>	Transform the opening edge input in STOP input		
		<b>ex</b>	EXIT		
<b>ec</b>	Closing edge	<b>D5</b>	Edge input disabled, this inputs works as STOP.	D5	
		<b>no</b>	Edge input in Normally Open mode.		
		<b>nc</b>	Edge input in Normally Close mode.		
		<b>an</b>	Edge input in 8K2 analog mode.		
		<b>ex</b>	EXIT		
<b>55</b>	Soft start	<b>Y5</b>	Soft start enabled.	Y5	
		<b>nt</b>	Soft start disabled.		
		<b>ex</b>	EXIT		
<b>bl</b>	Blinker mode	<b>Y5</b>	Blinker light with flashing output.	yh	
		<b>nt</b>	Blinker light with fix on output.		
		<b>ex</b>	EXIT		
<b>lh</b>	Light mode	<b>cr</b>	Light output as courtesy light.	cr	
		<b>0g</b>	Light output as open gate light.		

		<b>gr</b>	Light output as traffic light.		
		<b>ex</b>	EXIT		

<b>D2</b>	Reset to factory defaults	<b>Y5</b>	Selecting Y5 the factory default are restored.  <b>Attention:</b> This function doesn't delete radio codes.	-	
		<b>nt</b>	Maintain settled parameters		
		<b>ex</b>	EXIT		
<b>ar</b>	Automatic remotes learning	<b>Y5</b>	Automatic remotes learning enabled.		
		<b>nt</b>	Automatic remotes learning disabled	nt	
		<b>ex</b>	EXIT		
<b>rm</b>	Radio mode	<b>1b</b>	Each radio button is learned separate. The installer can choose how to learn a code: (C1 Start/Open, C2 Pedestrian/close).	1b	
		<b>4b</b>	Learning a button of a remote, let all the other 3 buttons being learn automatically.		
		<b>ex</b>	EXIT		
<b>cn</b>	Cycles counter	-	Shows cycle counter in 3 group of 2 digits. Example: 123.456 is shown as: 1.2 - 34. - 56	-	
		<b>ex</b>	EXIT		
<b>mm</b>	Mass mode	<b>Y5</b>	Enables the Mass entering mode		
		<b>nt</b>	Disables Mass mode	nt	
		<b>ex</b>	EXIT		
<b>br</b>	Barrier mode	<b>Y5</b>	Enables Barrier mode.		
		<b>nt</b>	Sliding gate mode.	nt	
		<b>ex</b>	EXIT		



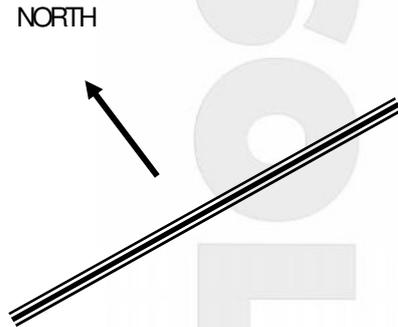
## GENERAL SOLAR NOTES

### SOLAR PANEL SIZE

Generally speaking simple automatic gate installations will work perfectly in Australia using a 10 watt solar panel. The solar panel size determines the amount of energy you can collect each day. In a simple gate installation we need to collect enough energy to power our control board and run the gate and a 10 watt panel will do this. If however the installation is to include keypads, safety beams or other power hungry devices it may be necessary to increase the solar panel size. Another example where you may wish to consider upsizing your solar panel is where you may have a partially shaded area and you need to collect your energy each day in a shorter period of time. If you do decide to increase the size of your solar panel it may be necessary to install a simple regulator to protect your battery. Check with Automatic Solutions regarding this.

### SOLAR PANEL DIRECTION

Your solar panel ideally should be mounted at an angle of 35 degrees and facing north (NB: In Australia).

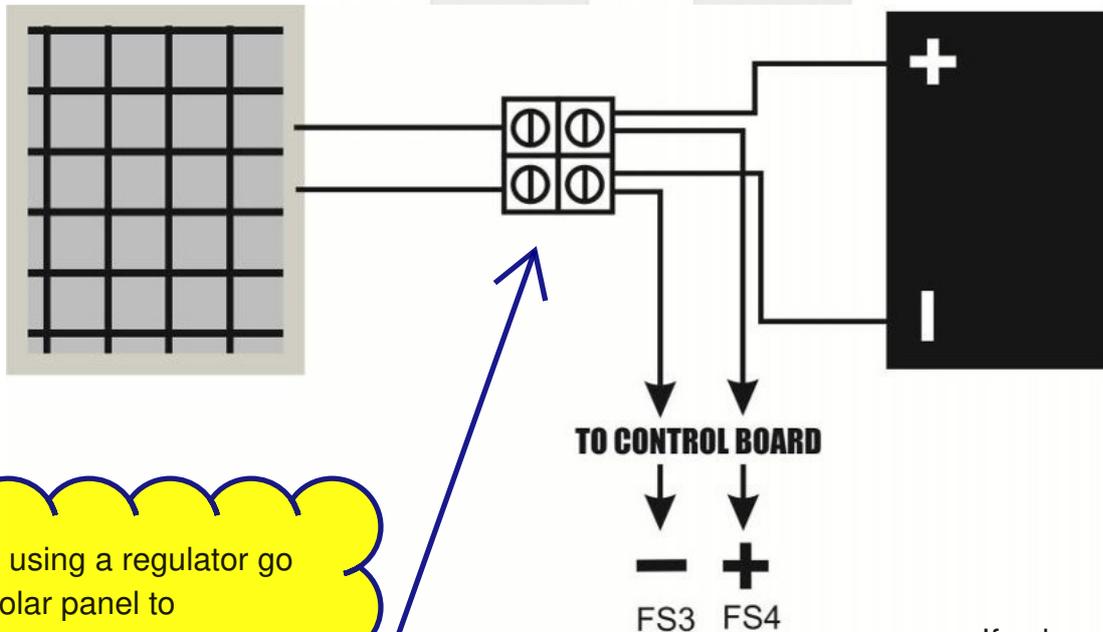


### BATTERY SIZE

The battery stores the energy that you collect each day and your system draws on this battery to operate. All batteries have a limit to their storage capacity and can therefore only store enough energy to last our system a certain period of time. What happens if we have for example three days with little or no sunlight, very dark and overcast days? Our battery capacity reduces. The size of the battery will determine the number of days we can have as backup or how many days our system can survive without charging. In general terms bigger is better.

### CABLES

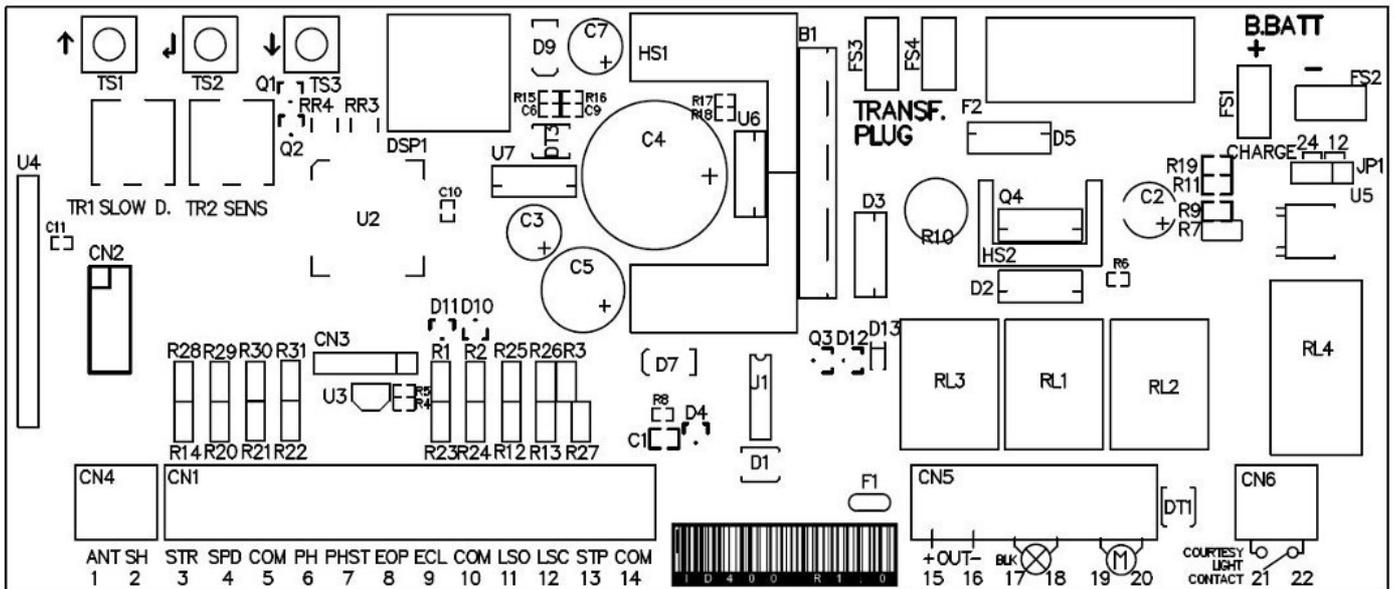
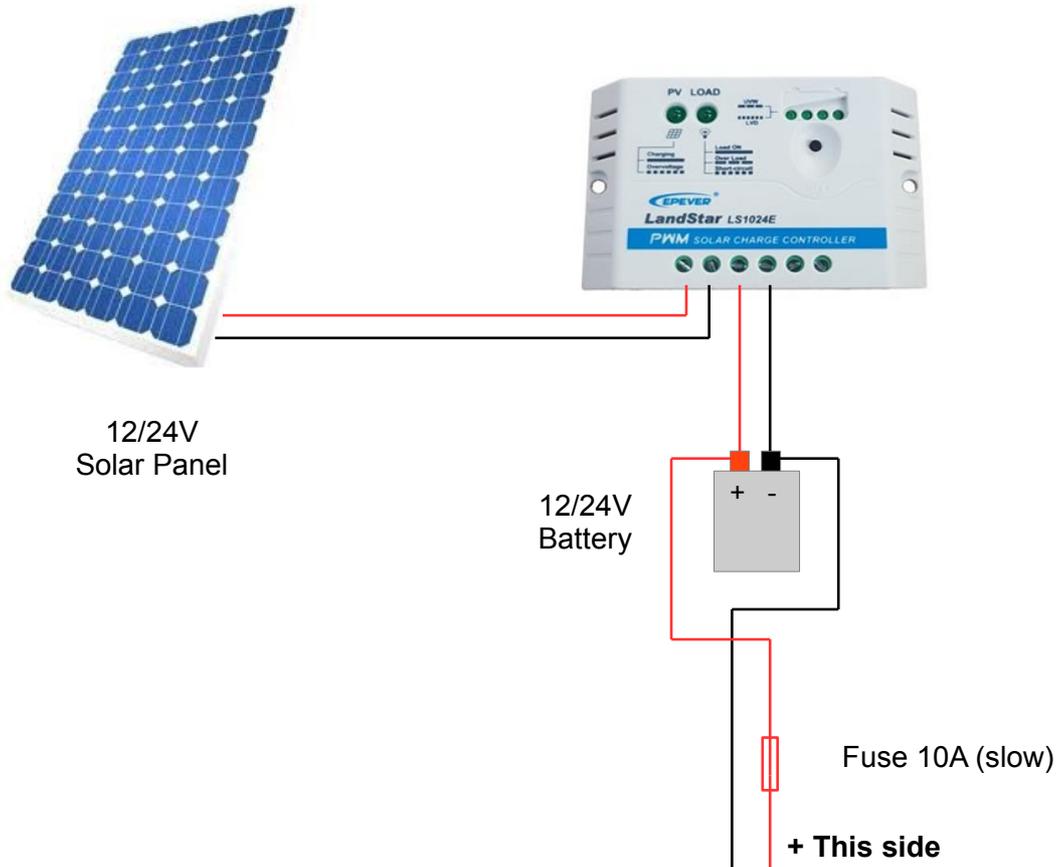
Cables must be low voltage cables (5mm is good). Length of cables must be kept to a minimum. Ideally the solar panel will be no more than 10 metres from the battery and the battery will be no more than 5 metres from the motor. Connections must be clean and good quality.



If using a regulator go solar panel to regulator, regulator to battery and then battery to control board. Do not take the

If using a regulator go solar panel to regulator, regulator to battery and then battery to control board. Do not take the board to the regulator.

# Solar Panel Connection ID400





Need some help or advice with your installation?

Keep this sheet handy because you might need this email address –  
[service@automaticsolutions.com.au](mailto:service@automaticsolutions.com.au)

Internet and technology give us the ability to have a technician look at your install and help solve problems whether they are the initial installation or years later.

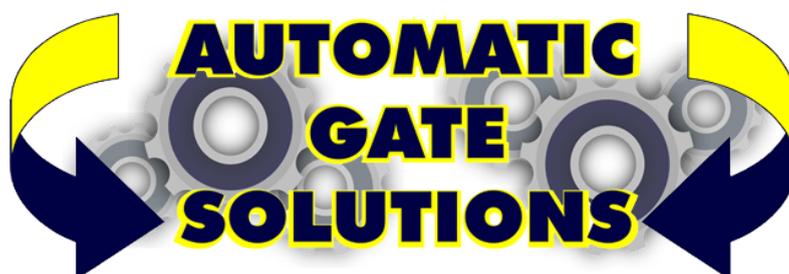
1. Don't start dismantling anything until advised.
2. Email the service department at the address above.

#### SEND US YOUR PHOTOS AND GIVE US SOME EYES ON SITE

- Photo of the overall scene – we should be able to see the whole gate/s in this one photo.
- A couple of photos of the gate hinges (if swing gates).
- Photos of both opening stops and closing stops.
- Photo of the connections to any battery.
- A couple of photos of the control board wiring.
- Any other shots you think important.

NB: Please resize your photos before emailing.

Please attach photos as attachments and do not imbed them in the email.



[www.automaticgatesolutions.com.au](http://www.automaticgatesolutions.com.au)