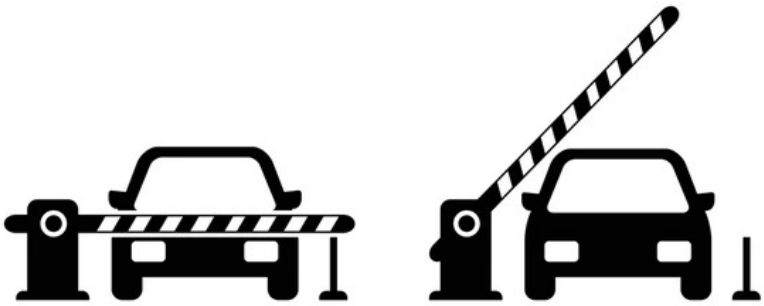
www.automaticgatesolutions.com.au

ASA6000 AUTOMATIC BARRIER



INSTALLATION MANUAL

Our compliments for your excellent choice. The ASA6000 electro-mechanical automatic barrier 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. ASA products have been made to conform with rules and laws in force at time of manufacture.

⚠ This manual is designed exclusively for the specialised installation expert in the criteria of construction and equipment to assist in the protection against accidents in the installation and use of the barrier; and automation of such barriers (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.

⚠ 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 unauthorised 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

DISMANTLING

In order to dismantle and move the barrier, follow these instructions:
1 - cut off the power supply and disconnect the electrical installation;
2 - dismantle the control console and all the other components of the installation. If you have noticed that some components have been damaged, you have to replace them

CONFORMITY DECLARATION

Description: Electromechanical actuator for road barriers.
• It is intended to be incorporated into a road barrier to constitute machinery pursuant to Directive 2006/42/EC. This machine may not be put into service until it has been declared compliant with the provisions of Directive 2006/42/EC (Annex II-A)
• It complies with the applicable essential requirements of the following Directives:
Machinery Directive 2006/42/EC (Annex I, Chapter 1) - Low Voltage Directive 2014/35/EU - Electromagnetic Compatibility Directive 2014/30/EU - RoHS3 Directive 2015/863/EU

Furthermore, the product complies with the following standards:
EN IEC 61000-6-2:2019, EN IEC 61000-6-3:2021 EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A2:2019 + A14:2019 + A15:2021, EN 62233:2008, EN 60335-2-103:2015
The technical documentation is available to the competent authority upon reasoned request from the manufacturer.

SAFETY RULES

Distance security!	Mechanisms moving!	Do not install in presence of explosive mixtures!
Electric Shock!	Use gloves and protective glasses!	Maintain ear protection!

USE OF AUTOMATION

The ASA6000 barrier was designed and built to operate booms up to 6.0 m in length. The manufacturer assumes no responsibility for use other than that intended. Since the automation can be controlled remotely, it is essential to frequently check the perfect working order of all safety devices. It is recommended to periodically check (every six months) the safety devices and the obstacle sensitivity adjustment provided by the control unit.

REQUIREMENTS FOR SAFE OPERATION
Operate the automatic barrier only after:
- Installing a fixed support at the end of the barrier;
- Installing a photocell system, to prevent the automatic re-closure system from activating during the transit of people or vehicles;
- Ensure that the barrier is easily visible both day and night when open and closed, and install adequate additional lighting if necessary;
- Install a flashing light that activates when the barrier moves.

PRELIMINARY CHECKS

1 - Read the manual carefully.
2 - Make sure the barrier is anchored to the ground securely.
3 - Make sure the boom is well balanced.
4 - Verify that the electrical system complies with the specifications required by the gearmotor.

TECHINICAL DATA

			BOOM 4,0m		***BOOM 6,0m***	
	A1L 220V	**A2 220V**	**A1 12V**	**A1 24V**	**B1 12V**	**B1 24V**
Power supply	220V	220V	12Vdc	24Vdc	12Vdc	24Vdc
Power	350W	180W	70W	70W	70W	70W
Capacitor	8,0µF	8,0µF	–	–	–	–
Absorption	1,5A	0,9A	0,5–7,5	0,5–5,5	0,5–7,5	0,5–5,5
RPM	900	1400	1650	1650	2800	2800
Working temperature	-25°C +60°C					
Thermal protection	150°C	150°C	–	–	–	–
Use frequency	35%	35%	90%	90%	90%	90%
Lubrication	GREASE					

INSTALLABLE ACCESSORIES

	BOOM SUPPORT	FLASHING LIGHT
BOOM 4m	X	X
BOOM 6m	X	X

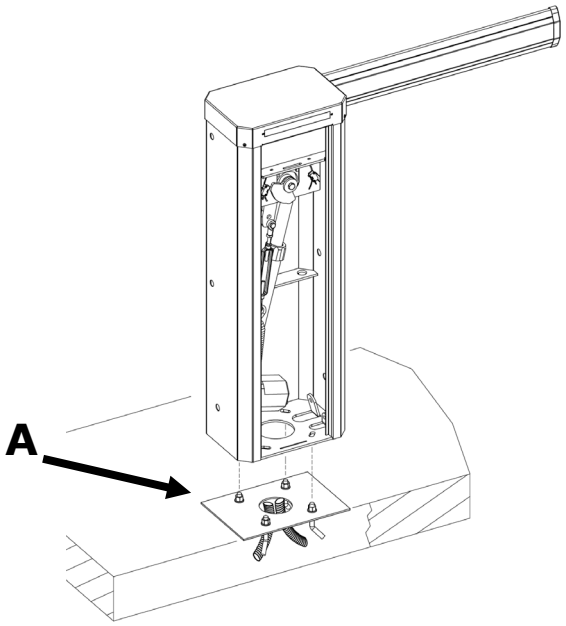
INSTALLATION

To properly install the ASA6000 barrier, proceed as follows:

1 – Open the packaging and remove the ASA6000 barrier, ensuring it has not been damaged during transport.

2 – Place the barrier body on the foundation plate or anchor it firmly to the ground with suitable anchors.

A – Foundation plate



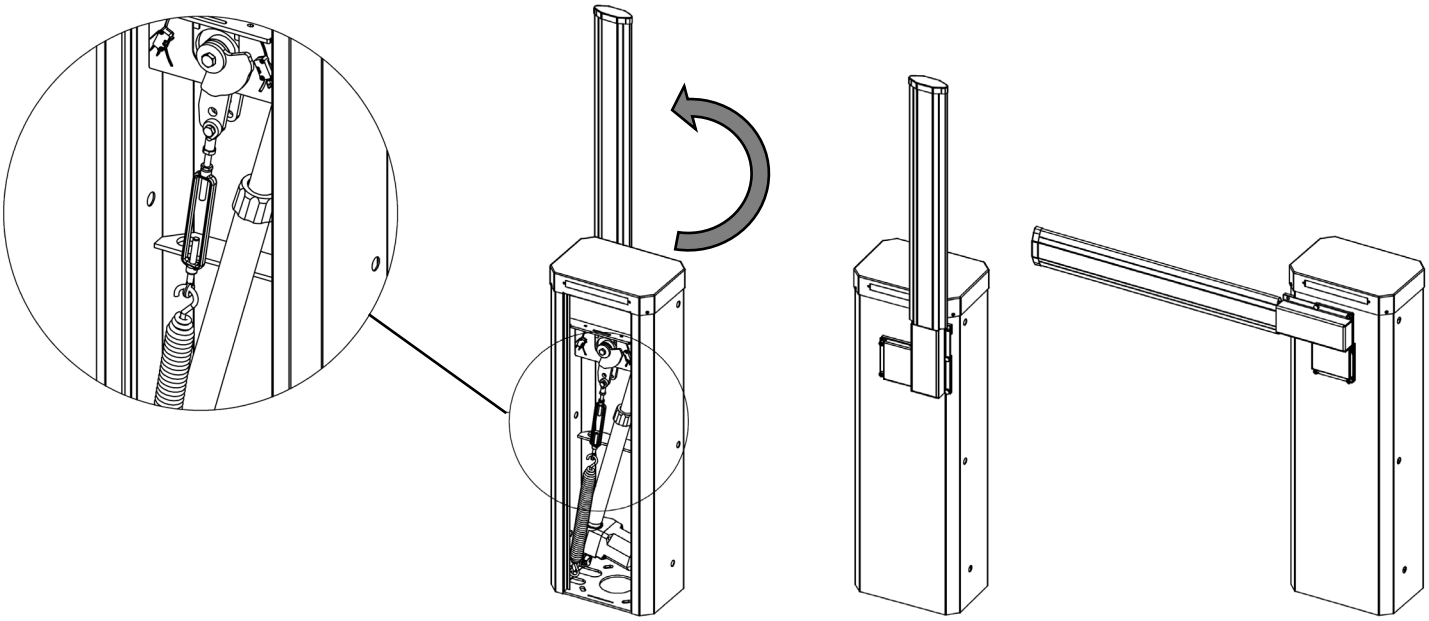
3 – Select the boom's opening direction, left or right; the opening direction is determined by looking at the barrier body from the side of the door that opens to the internal mechanisms.

4 – Looking at the barrier from the side of the door that opens, adjust the opening direction by tightening the spring on the spring balance: to the right for left-hand opening (right-hand closing) and to the left for right-hand opening (left-hand closing).

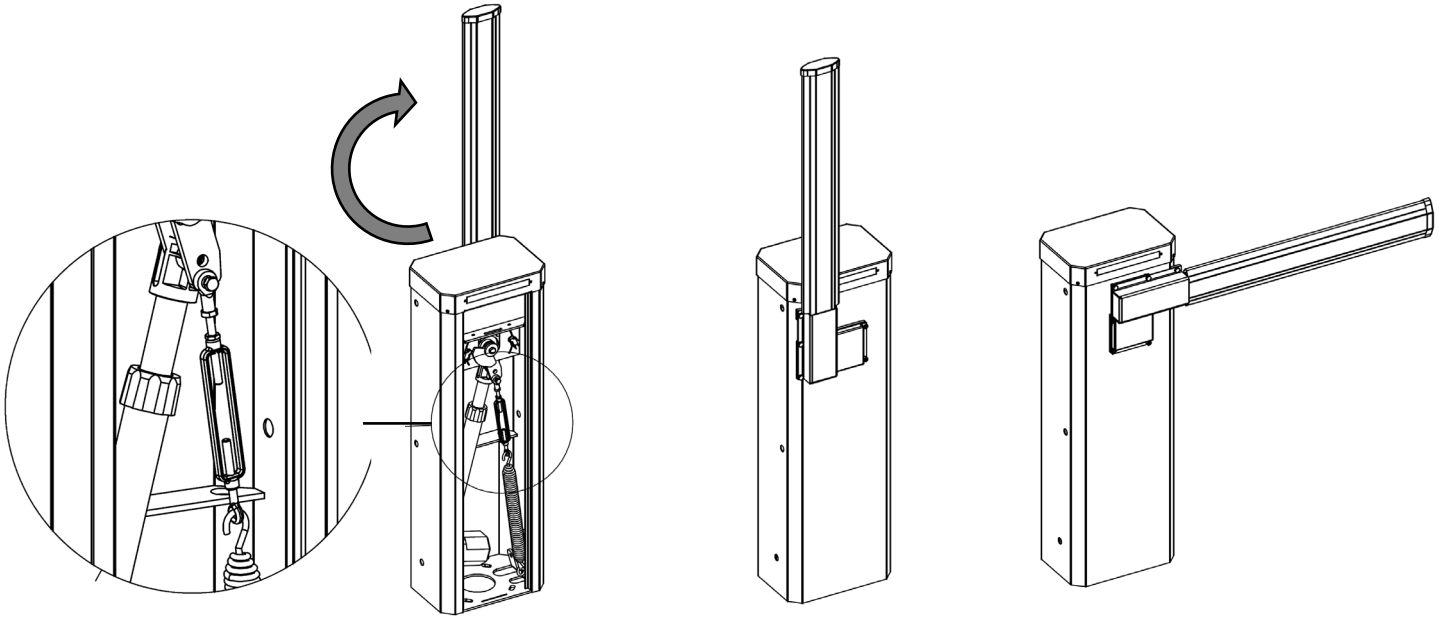
⚠ ***THE MOTOR POSITION DOES NOT CHANGE***

⚠ ***THE SPRING IS IN THE REST POSITION WITH THE ROD OPEN***

LEFT OPENING



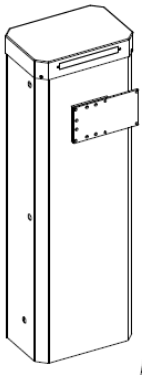
RIGHT OPENING



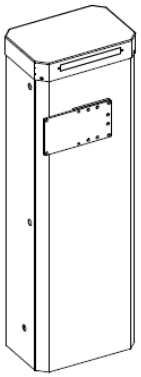
5 – Install the off-center plate for the rod support as follows

THE DIRECTION OF OPENING OF THE BARRIER IS ALWAYS INTENDED LOOKING AT THE BODY OF THE BARRIER, FROM THE SIDE OF THE FRONT ACCESS DOOR

LEFT OPENING – BOOM IN OPEN POSITION

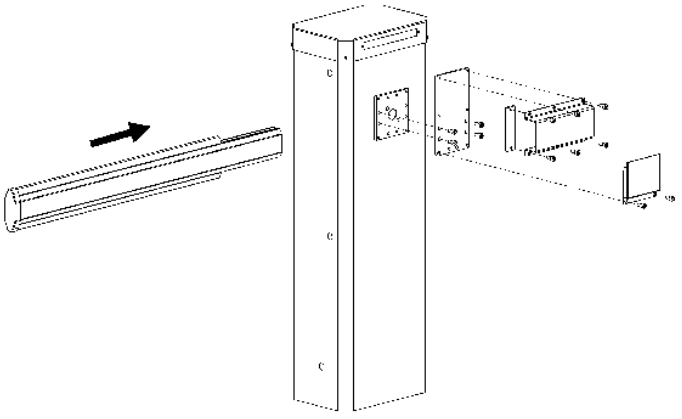


RIGHT OPENING – BOOM IN OPEN POSITION

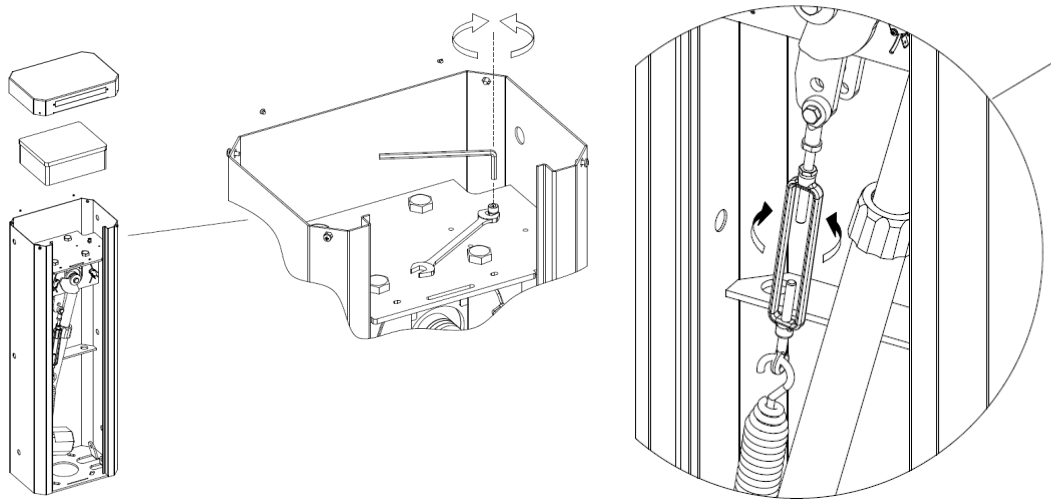


6 – Prepare the shaft complete with all accessories

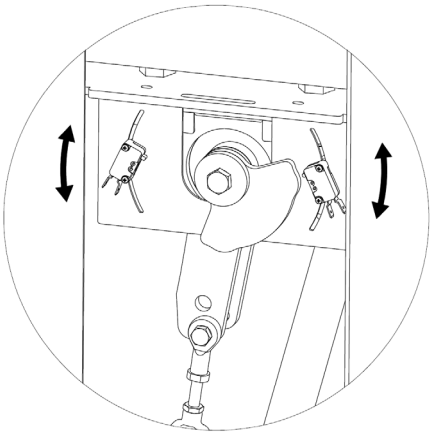
7 – Install the boom on the hub



8 – Balance the boom by acting on the balancing spring tensioner, adjust the limit screws so that the boom is parallel to the ground or at 90° to the barrier body when closed, and perpendicular to the ground or at 180° to the barrier body when opening. The boom will be well balanced when it is perfectly balanced at an angle of approximately 45°.



9 – Adjust the electrical limit switches



10 - Proceed with the electrical connections and programming of the control unit.
11 – Install the rod and install the off-center hub covers.

MAINTENANCE

⚠ All repairs must be carried out by qualified people.
⚠ Before each intervention remove power through the switch and lock in that position
⚠ The equipment must be maintained so as to preserve the conditions that ensure safe and efficient operation
⚠ Always use original spare parts
⚠ Do not make interventions that modify the machine.
⚠ The modified equipment requires new CE mark
⚠ The settings of the operator must be performed by qualified personnel, in accordance with the rules of reference. During these operations provide the presence of two operators for safety

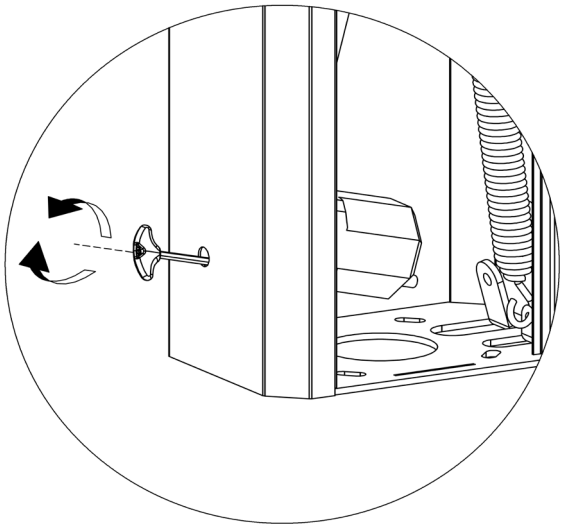
SCHEDULED MAINTENANCE

DESCRIPTION	FREQUENCY	REPRESENTATIVE	OPERATING INSTRUCTIONS
Photocell cleaning	Monthly	Operator	Clean with a damp cloth
Check the boom hub and balance the boom	As needed	Operator	Check the condition of the welds and corrosion. Unlock the motor and check the balance of the boom, adjusting the balancing spring if necessary
Check the sensitivity of the electronic clutch (torque adjustment) of the control unit	Semi-annually	Electrician	Check the torque adjustment as indicated in the EN 12453 – EN 12445 standards
Protection level check	Semi-annually	Electrician	Check that there are no traces of humidity or water inside the electrical enclosures
Leakage current check	Annually	Electrician	Check that it is less than 7.5A

EMERGENCY MANOEUVRE

To manually lock and unlock the doors, use the supplied key on screw C (See FIG. 6).
1 - Remove the protective cap and insert the supplied key into the slot as shown in the figure.
2 - Turn the key to unlock and in the opposite direction to lock.

CAUTION DO NOT RELOCK THE MOTOR WHILE IT IS RUNNING



ASA6000-ID410

- **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. (12 VOLTS)
- **TIP** – The transformer has two voltages. Use red and black for 12 volts. 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** – If using wireless keypad KEYPADP6 set it to 20Bit mode to work with this board.

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

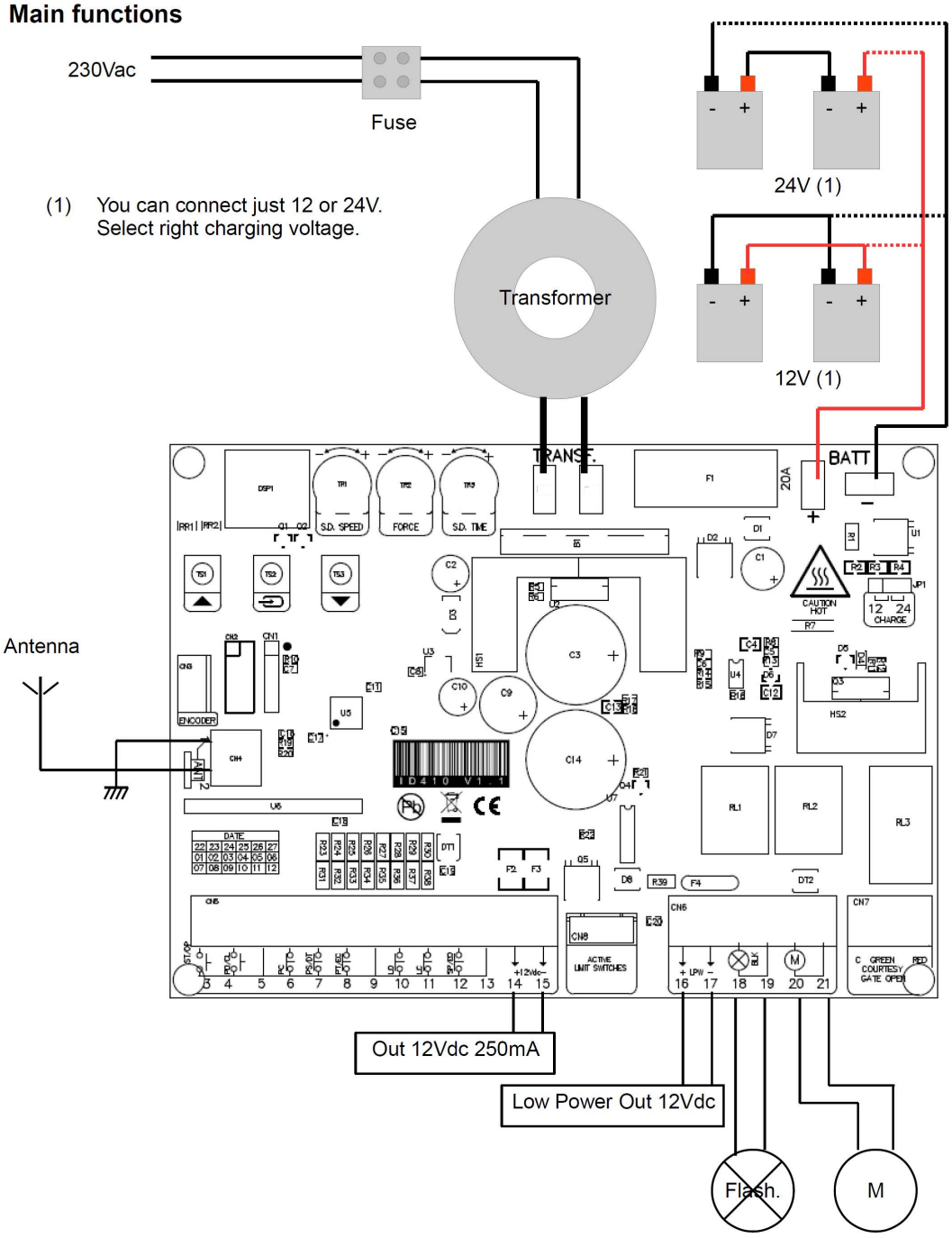
directives:

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

Castiglione 10-01-2023

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	**Antenna**	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.			

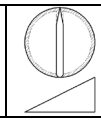
TRIMMER SETTINGS

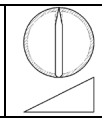
TR1 Slow down speed trimmer regulates the slow down speed. Do not set speed to low (less than 10cm/sec on the wing edge) to avoid that gate stops in too cold conditions.

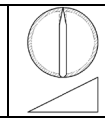
TR2 Obstacle sensibility trimmer fine tunes the obstacle detection level learned by the control unit during working times programming. This fine regulation must be do after working times learning.

TR3 Regulates the slowdown time lasting.

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

SLOWER		*FASTER*
TR1 SLOWING DOWN SPEED		

PUSH LESS		*PUSH MORE*
TR2 OBSTACLE DETECTION		

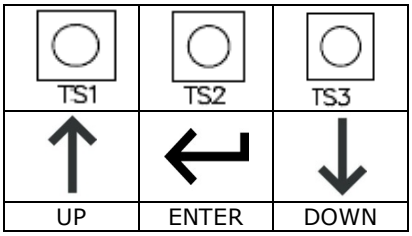
SHORTER SLOWDOWN		LONGER SLOWDOWN
TR3 SLOWDOWN TIME		

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.

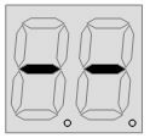
Mass entering mode.

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



PRESS SHORTLY

oL	Operating logic	**5T**	Step by step logic.
		At	Step by step with automatic closing.
		CD	Automatic closing for condominium function.
		OC	Open / Close mode (Start and Pedestrian inputs become Open and Close inputs).
		oa	Open / Close mode with automatic closing (Start and Pedestrian inputs become Open and Close inputs).
		EX	EXIT or push ↓↑ together

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

LT	Learn working times		**Attention:** if you are not sure of the direction of the sliding/barrier, 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) 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.
		EX	EXIT or push ↓↑ together

5P	Set pause time	↓↑	0 – 99

5P 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.
Attention, setting a pause time doesn't enables automatic closing, please refer to chapter "OL operating logic" to enable this function

F5	Fast Speed		Set max. speed 3 – 10

DM	Dead man mode	**Op**	Open motor
		Cl	Close motor

		↓↑	**EX**	EXIT or push ↓↑ together

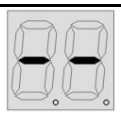
↓↑

EX	Exit	↵

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



↵

4 SEC.

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 2nd 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 forbit 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 forbit 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	

↓↑

Eo	Opening edge		**D5**	Edge input disabled, this inputs works as STOP.
			no	Edge input in Normally Open mode.
			nc	Edge input in Normally Close mode.
			an	Edge input in 8K2 analog mode.
			5p	Transform the opening edge input in STOP input
			ex	EXIT or push ↓↑ together
ec	Closing edge		**D5**	Edge input disabled, this inputs works as STOP.
			no	Edge input in Normally Open mode.
			nc	Edge input in Normally Close mode.
			an	Edge input in 8K2 analog mode.
			ex	EXIT or push ↓↑ together
55	Soft start		**Y5**	Soft start enabled.
			nt	Soft start disabled.
			ex	EXIT or push ↓↑ together
bl	Blinker mode		**Y5**	Blinker light with flashing output.
			nt	Blinker light with fix on output.
			ex	EXIT or push ↓↑ together
lh	Light mode		**cr**	Light output as courtesy light.
			0g	Light output as open gate light.
			gr	Light output as traffic light.
			ex	EXIT or push ↓↑ together
D2	Reset to factory defaults		**Y5**	Selecting Y5 the factory default are restored. ⚠ **Attention:** This function doesn't delete radio codes.
			nt	Maintain settled parameters
			ex	EXIT or push ↓↑ together
ar	Automatic remotes learning		**Y5**	Automatic remotes learning enabled.
			nt	Automatic remotes learning disabled
			ex	EXIT or push ↓↑ together
rm	Radio mode		**1b**	Each radio button is learned separate. The installer can choose how to learn a code: (C1 Start/Open, C2 Pedestrian/close).
			4b	Learning a button of a remote, let all the other 3 buttons being learn automatically.
			ex	EXIT or push ↓↑ together
cn	Cycles counter		**-**	Shows cycle counter in 3 group of 2 digits. Example: 123.456 is shown as: 1.2 - 34. - 56
			ex	EXIT or push ↓↑ together

mm	Mass mode	↵ ↓↑	**Y5**	Enables the Mass entering mode
			nt	Disables Mass mode
			ex	EXIT or push ↓↑ together
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.				
↓↑				
br	Barrier mode	↵ ↓↑	**Y5**	Enables Barrier mode.
			nt	Sliding gate mode.
			ex	EXIT or push ↓↑ together
↓↑				
EX	Exit	↵		

MAIN MENU QUIK TABLE

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

MAIN MENU QUIK TABLE

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

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

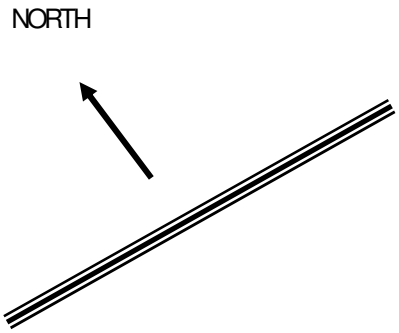
GENERAL SOLAR NOTES

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).

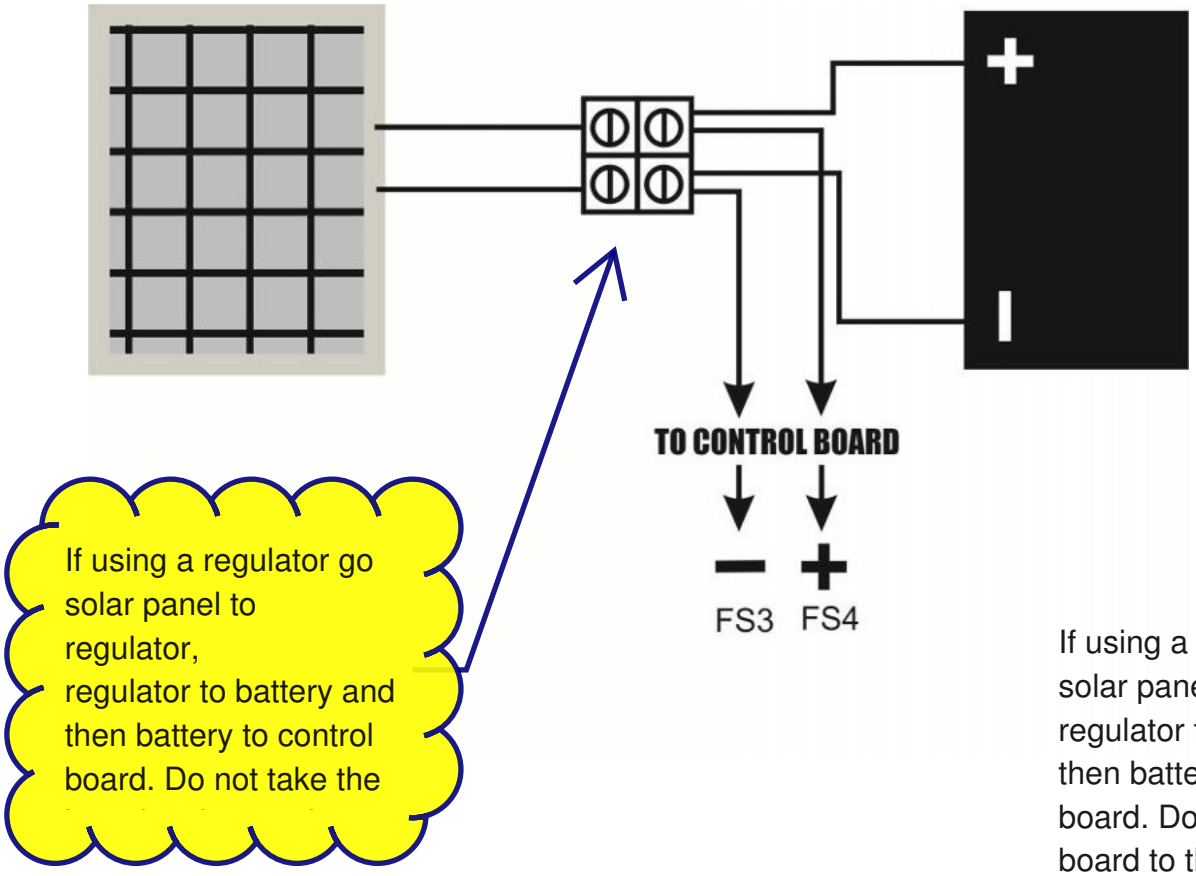


BATTERY SIZE

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.

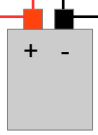


If using a regulator go solar panel to regulator, regulator to battery and then battery to control board. Do not take the board to the regulator.

Solar Panel Connection ID410

12/24V
Solar Panel

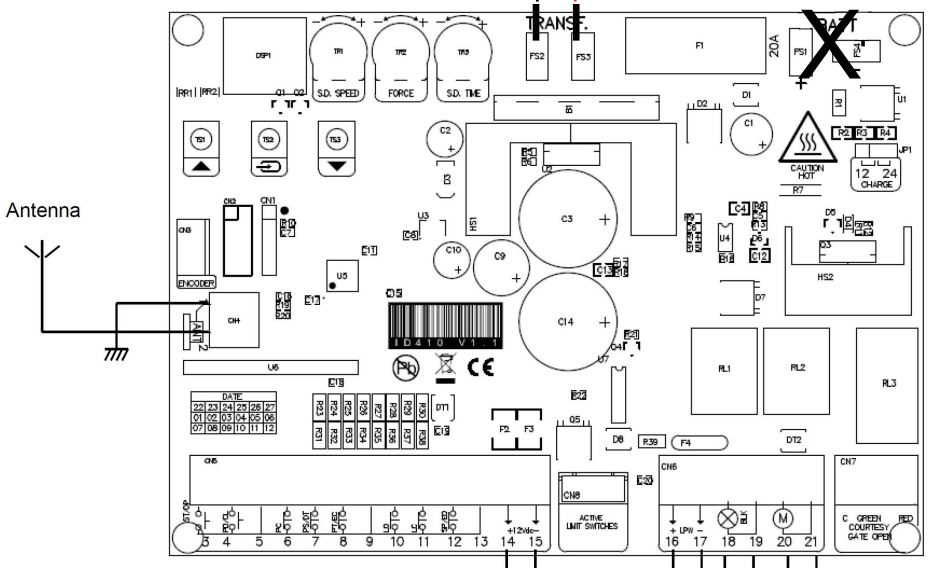
12/24V
Battery



Fuse 10A (slow)

+ This side

Antenna



Out 12Vdc 250mA

Low Power Out 12Vdc

Flash.

M

Need some help or advice with your installation?
Keep this sheet handy because you might need this email address –
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.

AUTOMATIC GATE SOLUTIONS

www.automaticgatesolutions.com.au