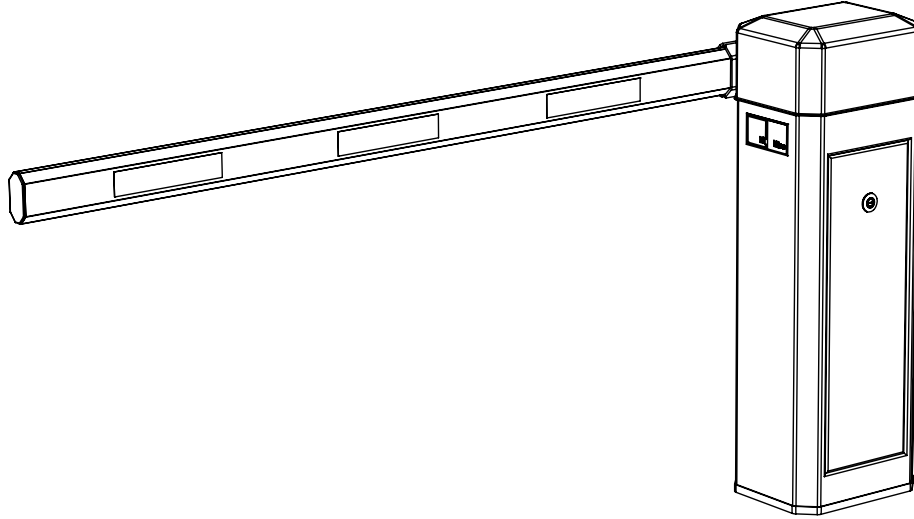


Installer Instructions



Access ACDC

Battery Back-up Traffic Barrier

and

Access AC HS

Hi-Speed AC only Traffic Barrier



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For any assistance with this product that is not covered in this manual please contact us on: 0860 109 238 (RSA) or via our online support facility at www.etnice.co.za.

Be Safe!

WARNING!! These are the general safety obligations for the installers and users of ET Nice (Pty) Ltd automation equipment. These instructions must be issued to the responsible end user during the handover and instruction meeting.

1. Only suitably qualified persons, may install, repair or service the product. Unless expressly indicated in the user instructions, no user serviceable components can be found inside any ET Nice (Pty) Ltd automation product.
2. It is important for personal safety to study and follow all the instructions carefully. Incorrect installation or misuse may cause serious personal harm.
3. Keep the instructions in a safe place for future reference.
4. This product was designed and manufactured, strictly for the use indicated in the accompanying documentation. Any other use not expressly indicated in the documentation, may damage the product and/or be a source of danger. ET Nice (Pty) Ltd cannot accept responsibility for improper use or incorrect installation of this product.
5. ET Nice (Pty) Ltd cannot accept responsibility if the principles of good workmanship are disregarded by the installer.
6. ET Nice (Pty) Ltd cannot accept responsibility regarding safety and correct operation of the automation, if other manufacturers' equipment is added to this product.
7. Do not make any modifications or alterations to this product. Do not substitute any component of this product with any other component not expressly designed into this product.
8. Anything other than expressly provided for in the accompanying instructions is not permitted.

Prior to installation:

1. All unnecessary ropes, chains and fasteners must be removed and all unnecessary latches or locks must be disabled from locking.
2. The barrier or door must be balanced correctly where it, neither opens nor closes from any position under its own load. When operated by hand the barrier or door should be free of hindrance and easily moved (In the case of a garage door if the balancing springs need to be adjusted the adjustment should only be carried out by a qualified and experienced person).
3. The construction of the barrier or door must be sound and automatable. It is the responsibility of the installer to ensure that the mechanical components of the barrier or door system are sufficient to withstand the necessary forces in cases of overload.
4. It is the responsibility of the installer to ensure the barrier or door is sufficiently trapped within its range of travel by means of mechanical ends of travel stoppers.
5. Ensure all fixed mounting points, such as the wall above the door in a garage door system or the posts in a swing barrier system, are sound and strong enough to allow proper fixing of the operator.
6. It is the responsibility of the installer to ensure the installed position selected for this product, falls within the limitations of the products ingress protection rating.
7. Ensure the area of installation is not subject to explosive hazards. There should be no volatile gasses or fumes as these can present a serious safety hazard.
8. All ET Nice (Pty) Ltd garage door operators are supplied with a sealed 15A safety plug on lead for use in an electrical code of practice approved plug point. Do not extend, modify or replace the plug lead unless duly qualified as an electrician. Before installing the unit, ensure the mains supply is switched off.
9. ET Nice (Pty) Ltd barrier operators are supplied with a terminal connection for the electrical supply beneath the screwed down cover of the operator. In the case of a model requiring 220Vac supply at the operator, an all pole negatively biased switch, with a contact opening of greater than 3mm must be installed within 1.5m of the operator. This switch must be clear of all workings of the system and must be in a position secure from public access. This switch and its connections must be inspected and passed by a certified electrician prior to using it.
10. It is the responsibility of the installer to ascertain that the designated persons (including children) intended to use the system, do not suffer reduced physical sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the system by a person responsible for their safety.
11. The drive may not be installed on a door incorporating a wicket door, unless the drive is disabled by the release of the wicket door. (Wicket door :- A pedestrian door within the main barrier or door)

During installation:

1. Ensure the working area is clear of obstructions and obstacles.
2. Install the safety warning sticker within clear view of where the barrier or door will be operated from. Typically this would be adjacent to any fixed trigger switches or on the barrier or door itself.
3. The emergency manual release must be installed where it is no higher than 1.8m from the floor level. This would apply to the cord in a garage installation or the lockable lever in a barrier installation.
4. Any additional fixed door control switches such as wall consoles or keypads, if installed, must be at a height of at least 1.5m, within clear sight of the barrier or door and away from any moving components of the system.

Continued overleaf.....

- It is highly recommended that a set of safety infra-red beams be used in conjunction with this product. The safety beams must be installed in such a way that the product is prevented from running when anything is in the path of the door or barrier.
- Over and above the recommendation to use safety infra-red beams with this product it is mandatory to install and use a safety beam set when using the automatic closing feature. It is recommended that a warning light be fitted to any automation system.
- The barrier or door warning labels must be installed in a prominent place and/or adjacent to any fixed controls that trigger the system. These must be in clear line of sight of the barrier or door opening.
- The emergency manual release instruction label must be installed on or adjacent to the emergency manual release mechanism.

After installation - It is the responsibility of the installer to ensure the users:

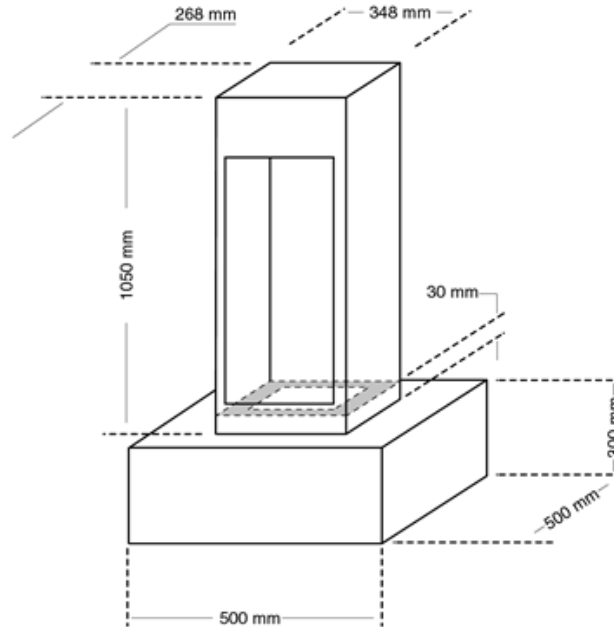
- Is proficient in the use of the manual emergency release mechanism.
- Is issued with the documentation accompanying this product.
- Understands that the barrier or door may not be operated out of clear sight.
- Ensures that children are kept clear of the barrier or door area at all times, and that children do not play with the remote transmitters or any fixed trigger switches linked to the system.
- Is instructed not to attempt to repair or adjust the automation system and to be aware of the danger of continuing to use the automation system in an unsafe condition before a service provider attends to it.
- Is proficient in testing the unit's safety obstruction sensing system.
- Is aware of what to check for with regards to wear and tear that may need to be attended to from time to time by the service provider.
- Is aware that a fatigued battery may not be disposed of in the general refuse and must be handed in at a battery merchant for safe disposal. Before removing the battery from the system the household mains must be disconnected. In the case of the motor unit being removed and scrapped, the battery must be removed first.

Technical specifications.

TECHNICAL SPECIFICATIONS			
Technical Data	Access ACDC M	Access ACDC L	Access AC HS
Primary power supply.	220 – 240Vac @ 50Hz – 60Hz.		
Peak power consumption.	140W		120W
Electrical class.	◇ Class 1.		
Motor voltage.	24v DC.		220v AC
Motor current.	Current limited to 10A.		Thermal fuse protected
Built in battery charger.	Multiple stage auto-calibrating (Peak - 500mA)		N/A
Number of operations, within 24hrs of power failure, on battery reserve from a fully charged and healthy battery.	650 Using 1 x 24V 5Ah battery. (Standard in kit) 950 Using 2 x 24V 3.5Ah batteries. 1300 Using 2 x 24V 5Ah batteries.		N/A
Maximum operations per day.	3000		
Duty cycle with mains present. Boom pole open/close speed selection dependent.	98%		
Operating speed with maximum allowed pole length.	90° in 3,5s	90° in 6s	90° in 1,2s
Torque.	140Nm	220Nm	65Nm
Boom pole limitations	See next page.		
Operating temperature range.	-10 to 50° C (14F to 122F)		
Anti-crushing safety sensing.	Yes – Electronic load profiling.		Mechanical clutch
Auxiliary supply output.	12v DC @ 400mA.		12v DC @ 160mA
Receiver format.	ET BLU MIX © backward compatible with ET BLUE. (Rolling code)		N/A
Receiver frequency.	433.92MHz.		N/A
Receiver channels.	4CH (BT, Open only, Aux relay, Holiday lock-out)		N/A
Receiver memory capacity.	1023 users.		N/A
All users can be allowed control of all channels.	Yes.		N/A
Ingress protection.	IP44		
Physical dimensions.	See next page.		

Dimensions.

	Height	Width	Depth
Boom	1050	348	268
Plinth	300	500	500



Pole capabilities and limitations.

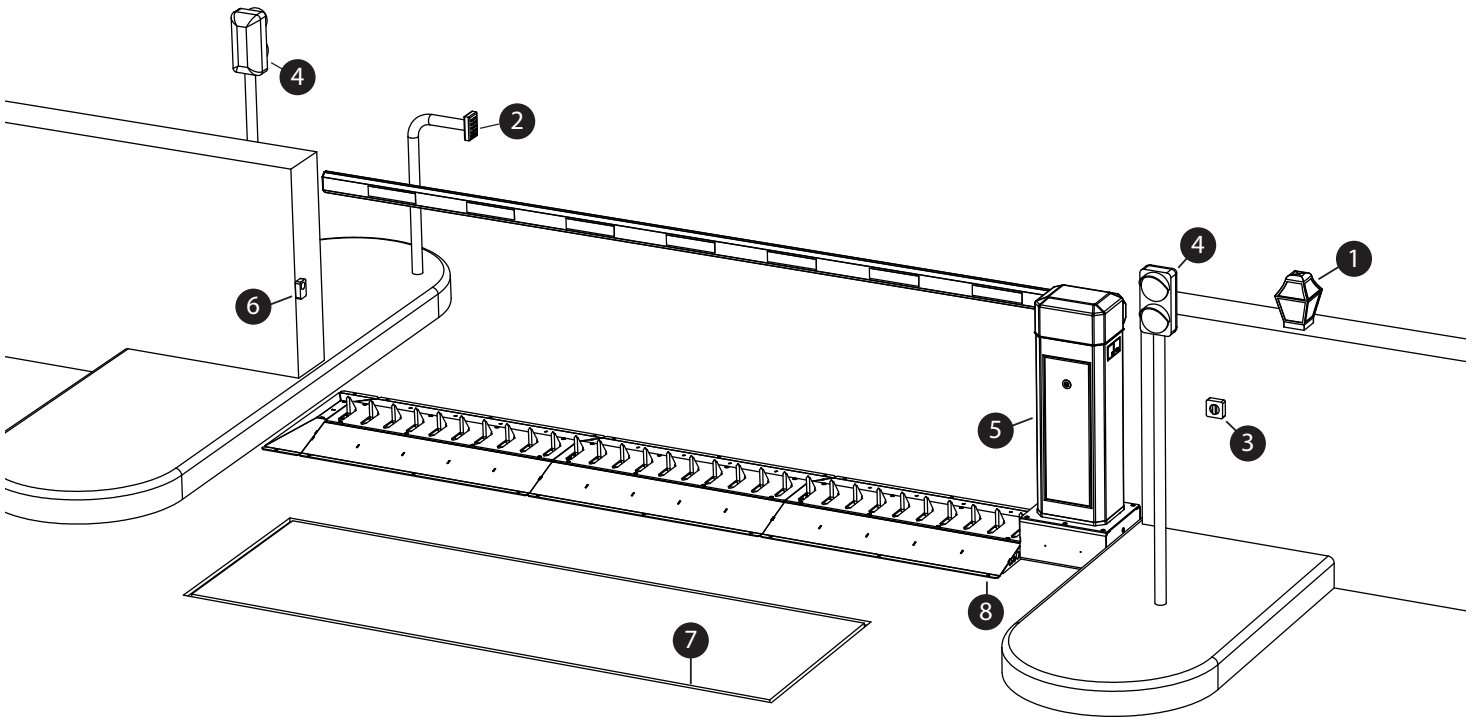
	Access AC HS	Access ACDC M	Access ACDC L
Fixed length boom pole 3m	Yes	Yes	Yes
Fixed length boom pole 4m	No	Yes	Yes
Telescopic boom pole 4 - 6m	No	No	Yes
180 Jack-knife pole 1,3m +1,8m (3,1m horizontal and <2.2m vertical)	No	No	Yes
Fence pole 3m	No	No	Yes
Fence pole 4m	No	No	Yes
Fence pole 5m	No	No	Yes

Counter balance spring requirements.

Pole type	Spring types	
	5mm	6,5mm
Fixed length boom pole 3m	x1	-
Fixed length boom pole 4m	x2	-
Telescopic boom pole 4m	x2	-
Telescopic boom pole 5m	x2	-
Telescopic boom pole 6m	x3	-
180 Jack-knife pole 1,3m +1,8m (3,1m horizontal and <2.2m vertical)	x2	-
Fence pole 3m	x2	-
Fence pole 4m	x2	x1
Fence pole 5m	x3	x1

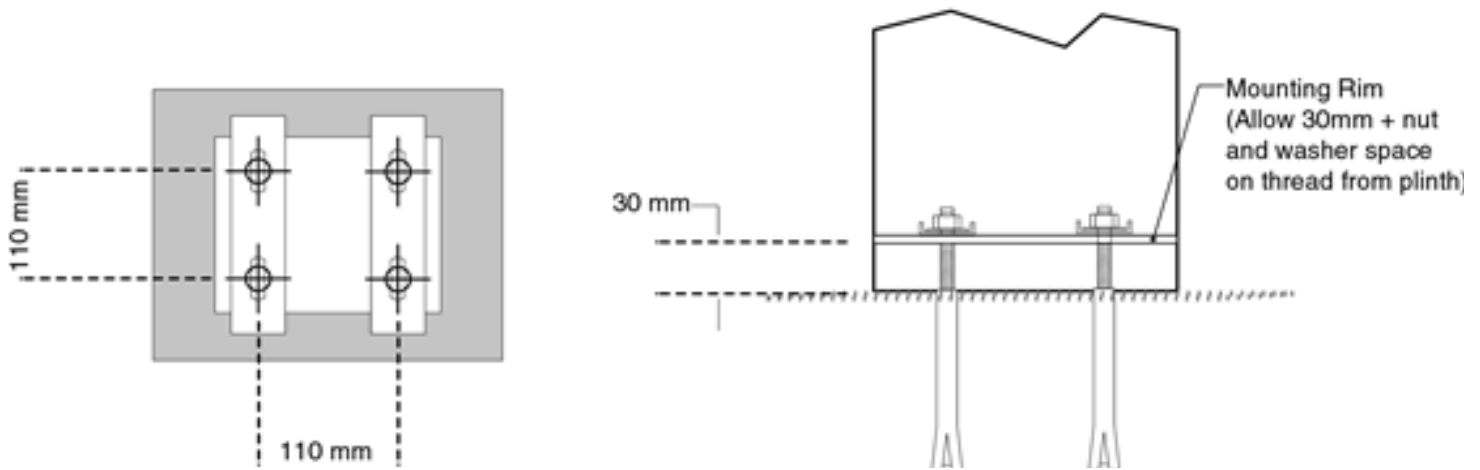
Cabling requirements.

- Before mounting the operator ensure your cables and conduiting are in place to prevent any inconvenience at a later stage.
- All 220Vac mains cabling and circuits need to be installed by a qualified electrician and signed off by a registered electrician.
- Allow for spare cabling in case of faulty cable & breakages (especially important when using low specification cable).
- As automation systems vibrate when in use, it is highly recommended that only multi-stranded, flexible cables be used.
- If installing an intercom, remember to allow for sufficient cable cores for all the users of the system as per manufacturers cabling requirements.
- When determining the position of your safety presence loop ensure that it is halfway between the entry and exit side of the boom pole/arm/fence position. This will ensure that the arm/fence will not falsely activate the safety reverse routine. The loop should also be positioned halfway along the length of the pole.
- When determining the position of your safety IR beam set, ensure that the fence or arm will not falsely trigger the safety reverse routine. In the case of high undercarriage vehicles also using the entry/exit, install two safety IR beam receivers. These receivers need to be wired in series to one another.



1.	Courtesy lights. Twin + earth 1.0mm back to control card and isolator switch.	5.	Infra-red safety beam RX. 3 core 0,5mm stranded back to barrier housing.
2.	Nice video intercom gate station. 4 x 0,5 from gate station to inside monitor and 2 x 0,5 to barrier housing. (<50m cable distance. Increase the guage here for longer cable runs)	6.	Infra-red safety beam TX. 2 core 0,5mm stranded back to barrier housing. (Not needed in the case of a set of Wve safety beams being installed)
3.	Double pole single throw 20A isolator. Twin + earth 2.5mm between 220V mains supply and PSU in control unit.	7.	Free exit loop 1.5mm silicone insulated single core flexible stranded cable back to loop detector that is typically installed in the barrier housing.
4.	Stop/go traffic LED traffic light. 3 core 0,5mm stranded back to barrier housing.	8.	From Nice Spears SM motorised spikes; supplied absolute encoder loom, proximity sensor loom and 2,5mm motor cabling.

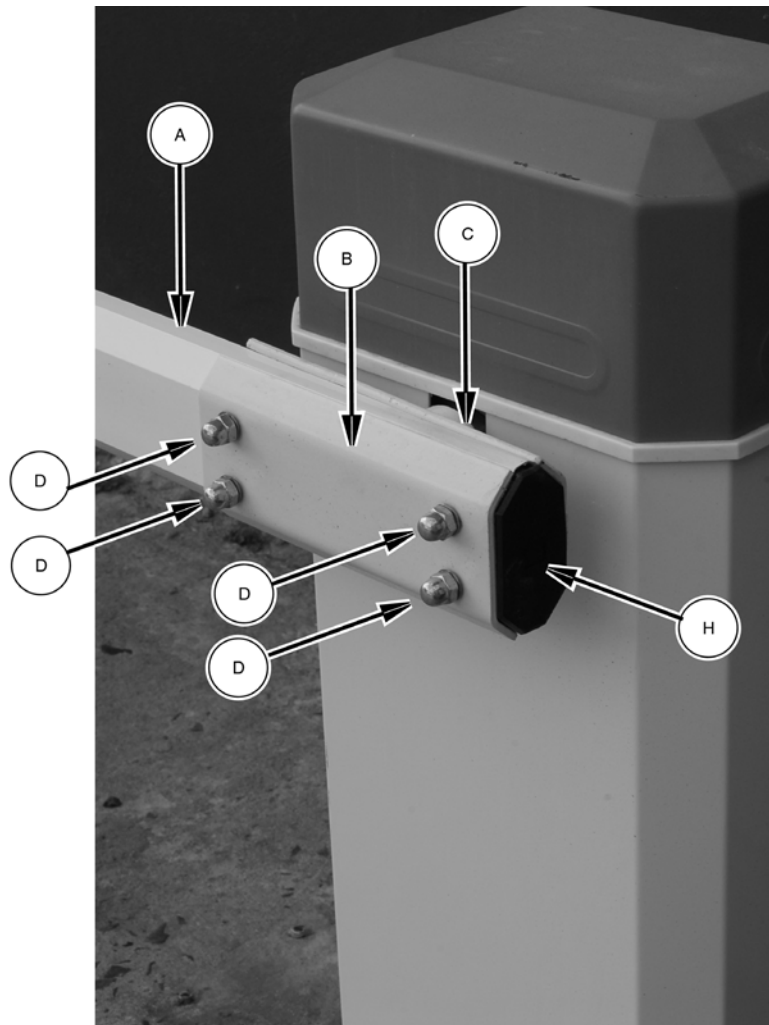
Mounting instructions and notes.



- It is advisable to prepare a plinth that is raised above the road level. This prevents damming of water around the base.
- All conduiting should be prepared prior to casting of the plinth and no additional holes should be cut or drilled into the sides of the boom box as this will interfere with the weather proofing. All cable access is up through the base of the boom. Prepare your conduits so that they do not interfere with the mounting straps in the base. Use a cable tie to hold them together at the centre of your plinth.
- If casting your bolts in the concrete ensure you have enough thread exposed to reach above the mounting rim.
- If using the anchor bolts supplied ensure that the plinth has set before drilling. Lightly fasten the mounting plates onto the bolts without expanding the sheaths. Insert the bolts into the holes you have prepared and tighten the bolts until the sheaths have expanded sufficiently. Beware not to over tighten the bolts as this can crack your newly cast plinth.
- When leveling the boom use a level on the sides of the box rather than the top of it. Use spacers braced under the mounting rim.

Attaching the Boom Pole.

NOTE! This should be done in the open position when the springs are relaxed for your safety.

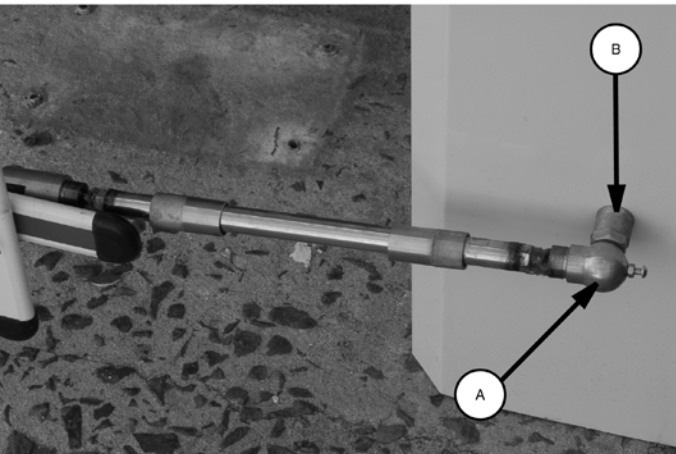
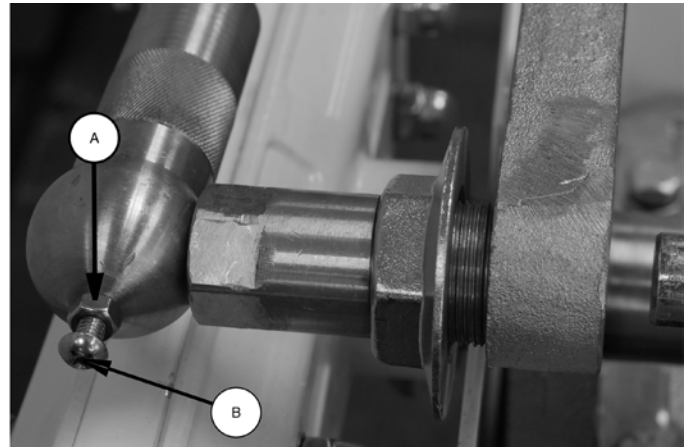
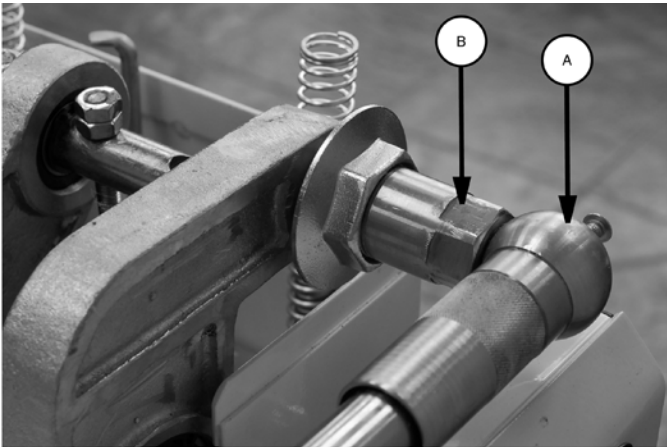


1. Firstly fasten four of the dome nuts (D) to the threaded rods supplied
2. Insert all four of the threaded rods with washers, through the clamping plate (B), and the pole/arm/fence (A) with the wooden inserts in place inside (A)
3. Hold the pole/arm/fence upright and feed the threaded rods into the holes in the drive shaft cradle (C)
4. Fasten the remaining dome nuts (D) with washers onto the threaded rod that protrudes on the boom box side of the cradle (C)
5. Insert end cap (H) into the open end of the boom pole(A)

Attaching the steering arms of the Jack-knife or Fence boom poles.

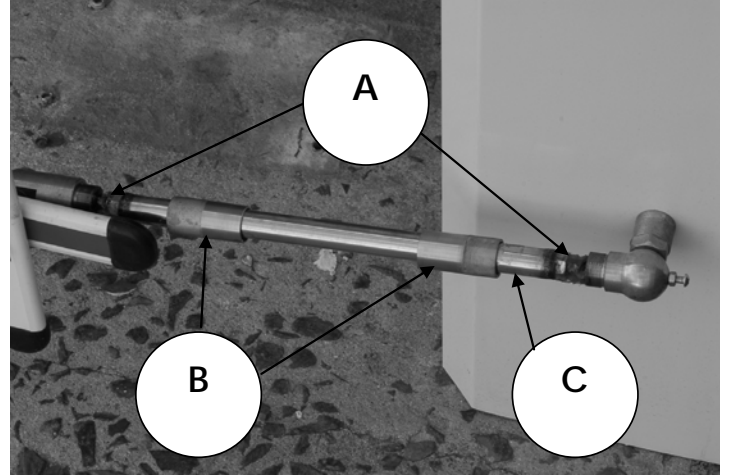
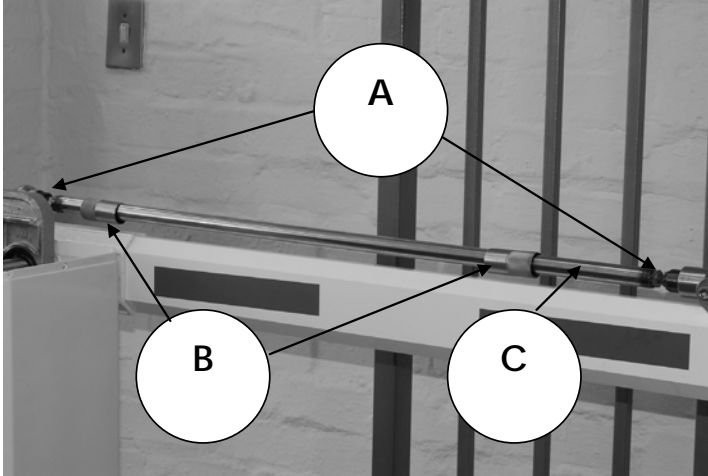
(Ref page 5 for pole options)

1. There is no modification necessary to the 180 Jack-knife or the Fence these are ready to mount directly onto the pole mounting cradle of the output drive shaft.
2. Both the 180 Jack-knife and the Fence make use of a steering arm. The mounting for these differ in that the 180 Jack-knife's steering arm attaches to stud at the top of the boom box above and behind the drive shaft and the Fence's steering arm attaches to the stud just above the base of the boom box.
3. In both cases fit the pivot end A over the stud B as shown here below.
4. Remember to lock the steering arm onto its mounting using the nut A and the screw B



Using the steering arm length adjustment to align the Jack-knife or Fence pickets.

1. To level the Jack-knife or straighten the pickets on the fence by lengthening or shortening the steering arm.
2. This is done by unscrewing the covers (B) at either end of the steering arm and exposing the locking nuts (A)
3. Loosening the locking nuts (A) at either end
4. Twisting the steering arm (C) to lengthen or shorten it.
5. Once the steering arm is at the necessary length. Re-fasten the nuts (A).
6. Replace the covers (B) at either end.



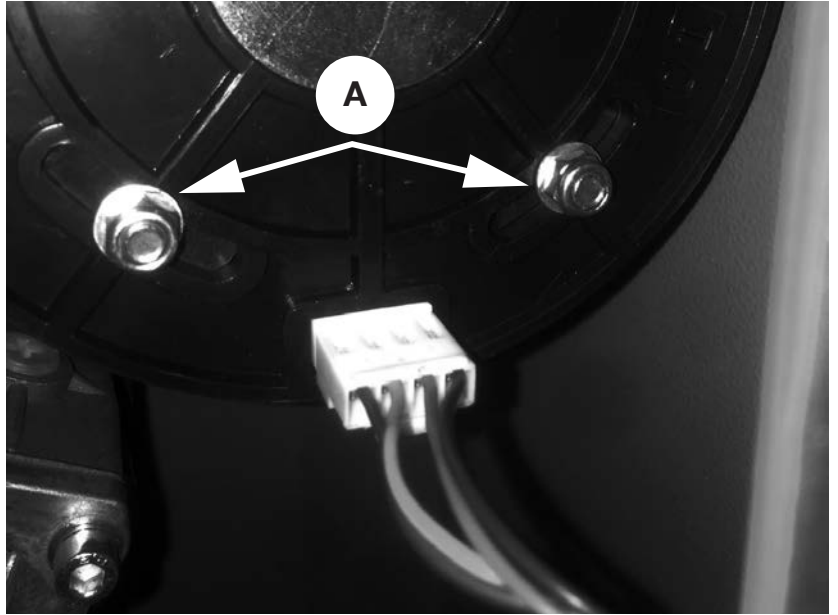
The Last picket which is also the rest for the entire fence can be adjusted by turning the spring loaded stopper further into or out of the bottom of the picket. Use this to assist with the leveling of the fence.



Adjusting the limit switches if necessary.

The limit positions have been setup in the factory. If however you need to adjust the limit position then loosen (A) here and adjust to the required position.

Take care the cam arm does not ride up heavy against the rubber stoppers. Re-fasten (A)

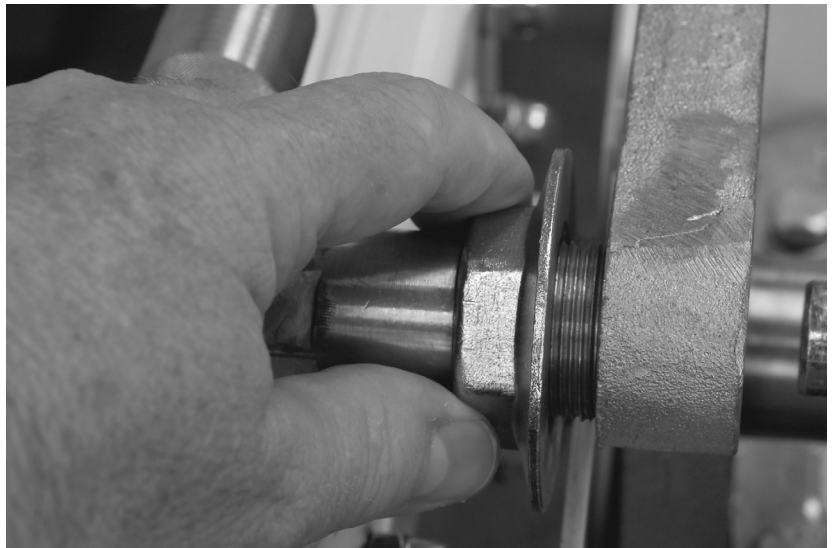


Removing the top cover

To release the top cover turn the cover release rod as shown here



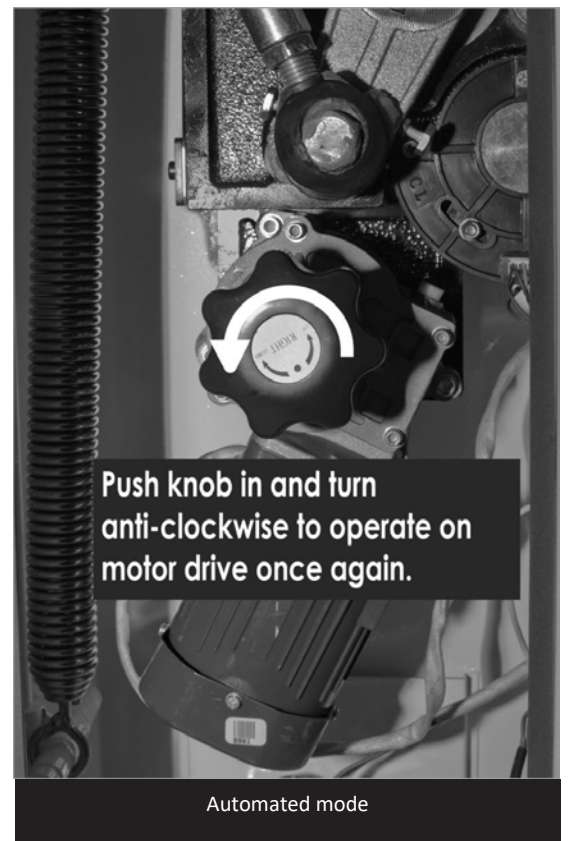
For some of the Jack-knife versions loosen the flange nut and remove the steering arm mounting stud before unlocking the cover. When replacing the cover replace the steering arm mounting stud and refasten the flange nut after the cover is locked in place



Remove cover by lifting the side usually locked by the release rod, first



Using the emergency manual override.



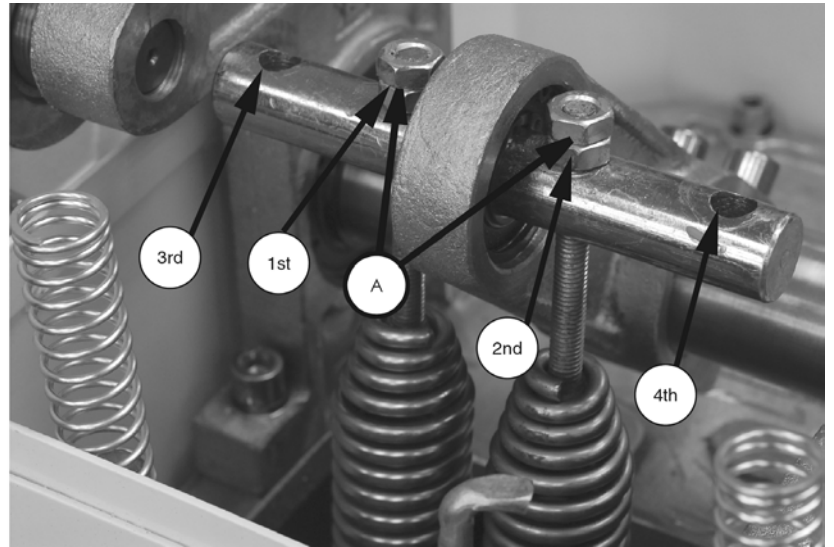
Springs and tensioning.

NOTE! Adjustment and work on springs, should only be done in the open position when the springs are relaxed for your safety.

First ensure that you have the correct springs and number of springs for your boom pole as per the table on page 5.

Unlock and adjust the thread position of the nuts (A) to add or release spring tension. Remember to lock the nuts again when done.

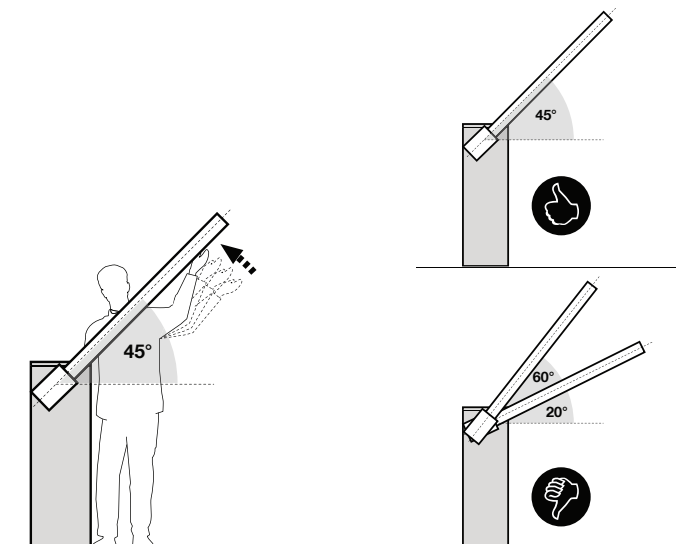
Note! The springs should always be installed in the order shown here. 1st spring, 2nd spring etc...



Always ensure the springs rest in the slots of the spring mounting rods. (A)



A balanced boom pole will remain at 45° when moved there by hand. If it rises or falls then the counter balancing springs combination needs to be confirmed and their tension needs to be adjusted.



Electrical and electronic installation and setup.

As a motorised operator vibrates when in use, it is strongly recommended that only multiple strand flexible cables be used.

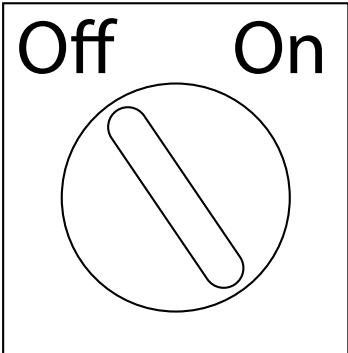
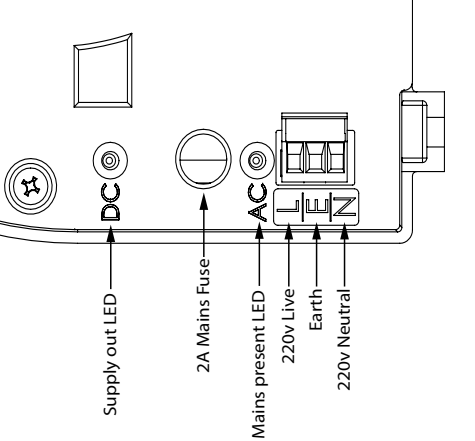
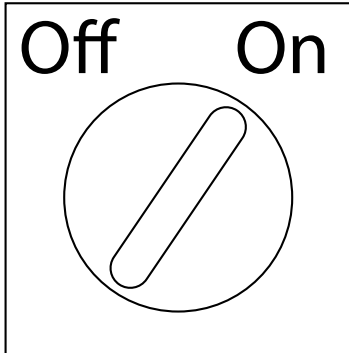
Before closing the unit, always remember to double check that all connections are securely made, that there are no stray strands flaring out that can short circuit against other adjacent connections or bared wires and that no cables will be pulled loose when the cover is replaced on the unit.

Double check the battery connections as loose connections can cause arcing and corrosion of the battery terminals.

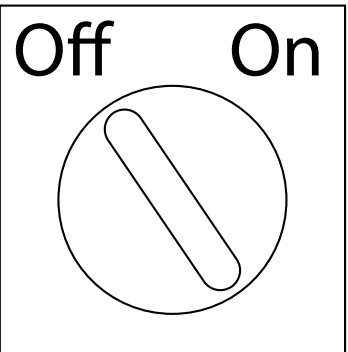
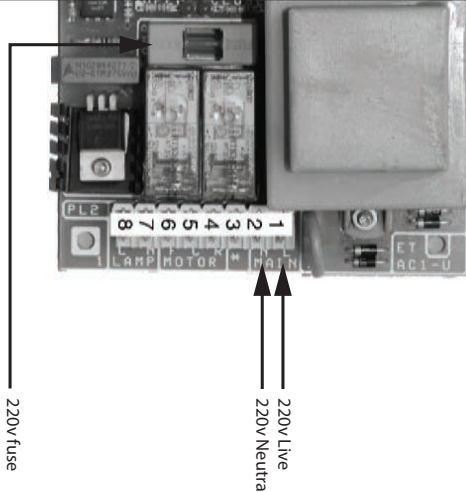
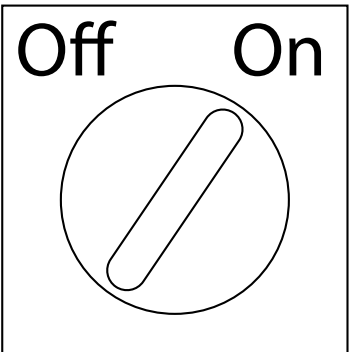
Terminating the AC voltage:

Both models require 220Vac at the operator. This 220Vac must be circuited through a weatherproof all pole isolator switch. This isolator switch must be installed within 1,5m of the unit, must not be installed within the workings of the system and must be positioned so that it cannot be tampered with from the outside of the property. This circuit must be certified by way of a C.O.C. (certificate of compliance) issued by a registered electrician.

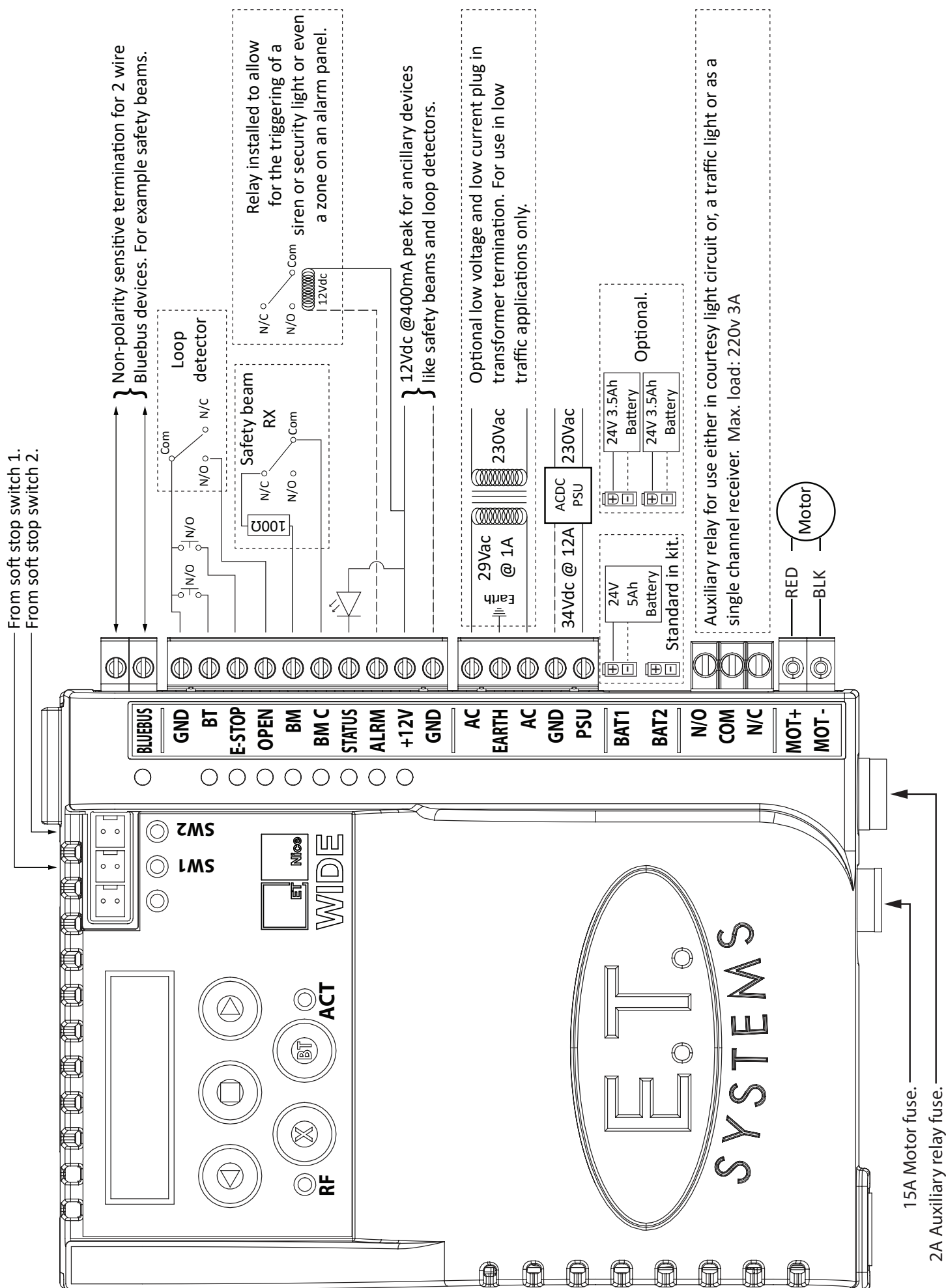
Access ACDC 220v connection and fuse.

 <p>Ensure the 220Vac has been isolated.</p>	 <p>Terminate the 220Vac and earth as shown here.</p>	 <p>Switch the 220Vac back on.</p>
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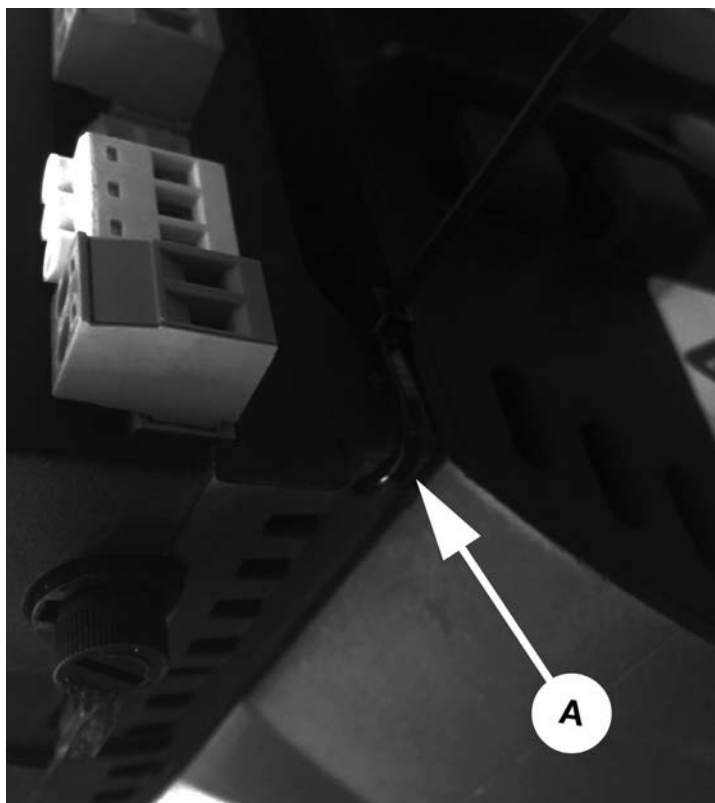
Access AC HS 220v connection and fuse.

 <p>Ensure the 220Vac has been isolated.</p>	 <p>Terminate the 220Vac as shown here.</p>	 <p>Switch the 220Vac back on.</p>
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Wiring and termination of the control card -Access ACDC model.

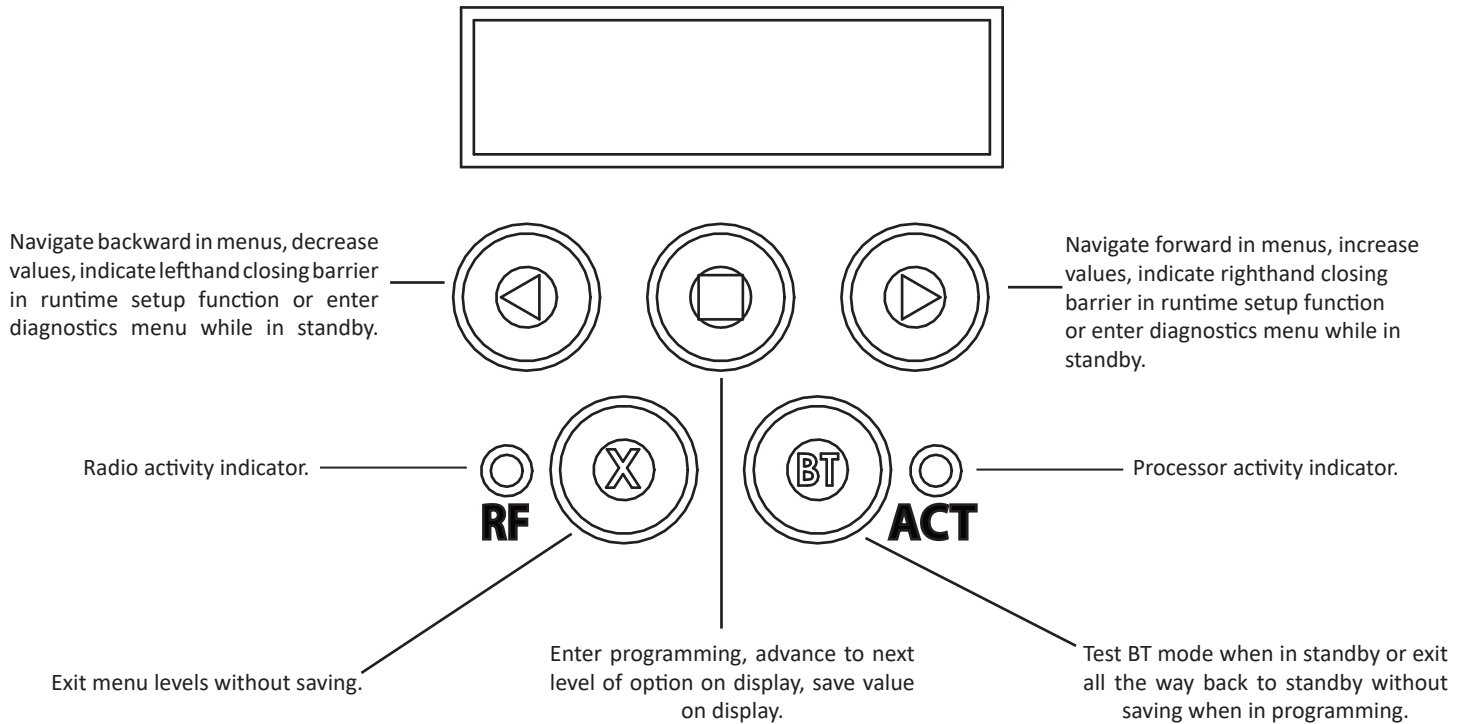


The control card can be removed from its mounting position so that it is more convenient to work with. Remove the cable tie (A) shown in the adjacent image.



Using the control card display and dashboard of the Access DC model.

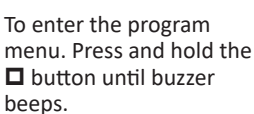




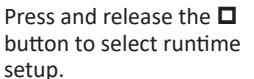





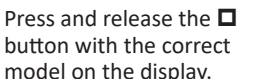
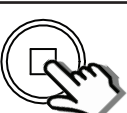



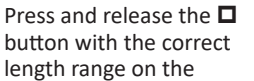
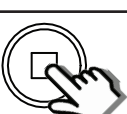




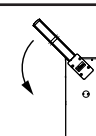

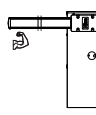

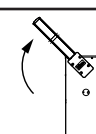
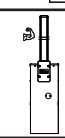

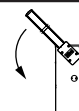
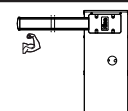



The control unit is equipped with a LCD display and interactive keys for simplified programming and diagnostics. All setup, of the various features, requires that the control card dashboard be used. Below are the functions of each key on the dashboard.






































Control card programming and setup.



























Programming menu quick reference guide:













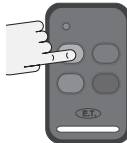






1. **Runtime setup.** - Page 18.
2. **Collision force sensing. Safety level setup.** - Page 19.
3. **Safety beam setup.** - Page 19.
4. **BT triggers operating mode selection and setup.** - Page 20.
5. **Receiver setup.**
 - a. Learn remotes. - Pages 22, 23 and 24.
 - b. Erase remotes. - Pages 25 and 26.
 - c. Diagnose remotes. - Page 27.
 - d. Receiver information. - Page 28.
6. **Advanced menu.** - Pages 29 and 30.
 - a. Barrier speed
 - b. Soft stop speed.
 - c. Auxiliary relay setup.
 - d. Blue-bus setup.
 - e. Power settings.
 - f. Controller setup.
 - g. Controller information.
 - h. IEC Standards mode. Enable/disable. (Safety beams must be installed and configured before you can enable this mode)
 - i. Reset and restore.













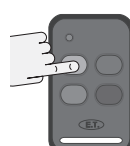






Runtime Setup		Setting up the profile and runtime. (Mandatory)			
From Standby status		- Standard mode - - Standby	Before continuing with the runtime setup ensure the soft stop switches are activating momentarily before the physical end stop is reached. This can be done in manual mode. Re-engage the gearbox with the boom pole at 45°		
Action		Response			
		Description	Display	Buzzer	Barrier
To enter the program menu. Press and hold the  button until buzzer beeps.		Display and buzzer confirms.	Programming menu <or> for options	 x2	
Scroll < or > to select the runtime setup option.	 	Display scrolls through options.	Runtime setup <Limits NOT set>		
Press and release the  button to select runtime setup.		Display asks you to select the barrier model.	Set Boom Type < Access L >	 x1	
Scroll < or > to select the matching model.	 	Display scrolls through options.	Set BoomType < Access M>	 x1	
Press and release the  button with the correct model on the display.		Display confirms the selection is saved.	Type Setting Access M saved	 x1	
Scroll < or > to select the matching boom pole length.	 	Display asks you to select the required boom pole length.	Set Boom Length < 1-2M >		
Press and release the  button with the correct length range on the display.		Display confirms the setting is saved.	Length Setting Saved	 x1	
Press and release < or > to confirm either left or right hand closing installation. (Page 9)	 	The boom closes slowly. Display and buzzer confirms.	Finding Closed Stopper	 x1	
When the closed position is reached		The boom stops. Display and buzzer warn the profiling is about to begin.	WARNING! Profiling.	 x1	
Once warning tone has stopped.		The boom begins running open at full speed. Display confirms.	Opening. Profiling.		
When the open position is reached.		The boom stops and begins closing again at full speed. Display confirms.	Closing. Profiling.		
When the closed position is reached once again.		The boom stops. Display and buzzer confirms.	Runtime setup. <Limits set>	 x1	 
Scroll left or right to next program option.		  OR EXIT back to standby status 	"Selected" mode - Standby		

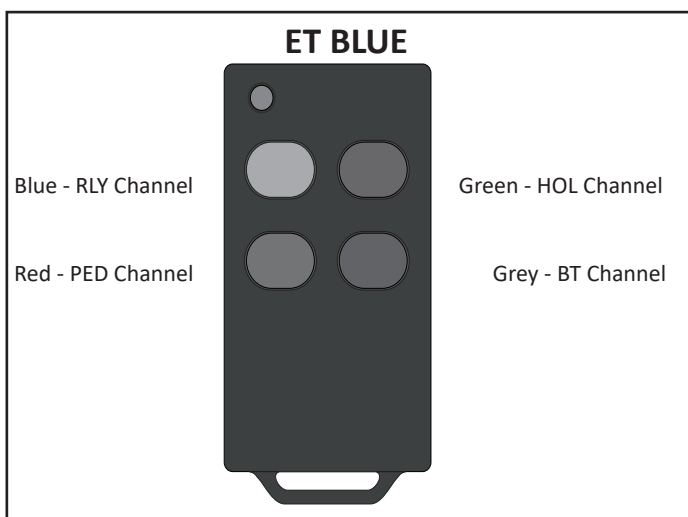
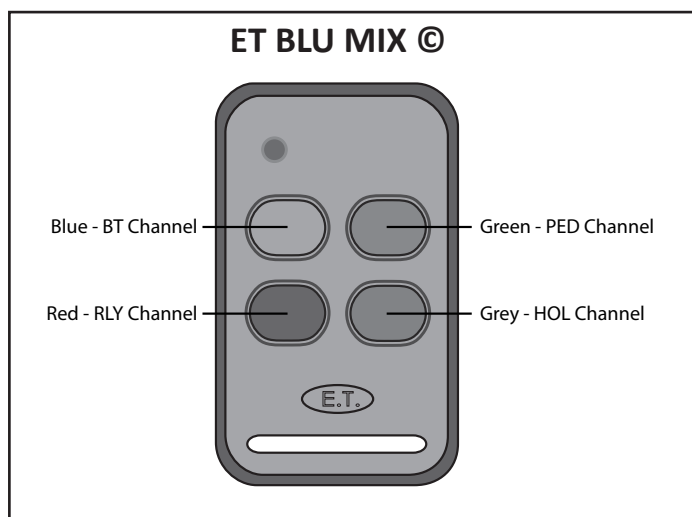
Selecting a safety level.				Overload Setting	
From Standby status		- “Selected” mode - - Standby	This adjusts the force level, over and above the nominal barrier resistance, needed to trigger the safety overload routines. Level 1 being the most sensitive and 8 being the least sensitive. The factory default is level 3.		
Action		Response			
		Description	Display	Buzzer	Barrier
To enter the program menu. Press and hold the  button until buzzer beeps.		Display and buzzer confirms.	Programming menu <or> for options	 x2	
Scroll < or > to select the runtime setup option.		Display scrolls through options.	Overload Setting <  = change >		
With “Overload Setting” on the display, press and release  .		Display shows current option status.	Overload Setting <  >	 x1	
Scroll < or > to the required setting.		Display changes respectively.	Overload Setting <  >	 x1	
With required setting displayed, press and release  .		Display briefly shows the new setting is saved.	Overload Setting Saved = 2	 x2	
After display confirms new setting.	Overload Setting <  = change >	Display returns to programming menu options list.	Overload Setting <  = change >		
Scroll left or right to next program option.			OR	EXIT back to standby status	
					“Selected” mode - Standby

Safety infra-red beams setup.				Beam Setup.	
From Standby status		- “Selected” mode - - Standby	Use this option to enable the safety beam circuit for use in standard BT mode. (See page 20)		
Action		Response			
		Description	Display	Buzzer	Barrier
To enter the program menu. Press and hold the  button until buzzer beeps.		Display and buzzer confirms.	Programming menu <or> for options	 x2	
Scroll < or > to select the beam setup option.		Display scrolls through options.	Beam Setup <  = change >		
With “Beam Setup” on the display, press and release  .		Display shows current option status.	Beam Setup Disabled	 x1	
Scroll < or > to toggle between “Enabled” and “Disabled”.		Display changes respectively.	Beam Setup Enabled	 x1	
With required setting displayed, press and release  .		Display briefly shows the new setting is saved.	Beam Setup Enabled Saved	 x2	
After display confirms new setting.	Beam Setup Enabled Saved	Display returns to programming menu options list.	Beam Setup <  = change >		
Scroll left or right to next program option.			OR	EXIT back to standby status	
					“Selected” mode - Standby






















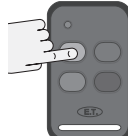







BT Mode Setting		Selecting a BT operating mode and adjusting the BT auto-close time.			
From Standby status		- "Selected" mode - - Standby	The factory default is Simplex mode. The factory default auto-close time is 20 seconds. The timer range is 1 – 254 seconds. PLEASE NOTE!! To select any of the automatic closing timers, a set of safety infra-red beams must be installed using the technique indicated in this manual to allow for barrier closing. Failure to install and setup the safety beams first, will lock you out of the Auto-close modes. The safety beam function on this control card conforms to the CE safety standards.		
Action		Response			
		Description	Display	Buzzer	Barrier
To enter the program menu. Press and hold the  button until buzzer beeps.		Display and buzzer confirms.	Programming menu <or> for options	 x2	
Scroll < or > to select the beam setup option.	 	Display scrolls through options.	BT Mode Setting <  = change >		
With "BT Mode Setting" on the display, press and release  .		Display shows current option status.	BT Mode Setting < Simplex >	 x1	
Scroll < or > to the required BT mode option.	 	Display changes respectively.	BT Mode Setting < Simplex >	 x1	
			BT Mode Setting < Simplex Auto >		
			BT Mode Setting < Complex >		
With required setting displayed, press and release  .		If Simplex mode was selected, the display and buzzer will confirm the setting is saved. Display then reverts to programming options list.	BT Mode Setting Standard - Saved	 x2	
		If Simplex Auto or Complex were selected, then the buzzer beeps once, and the display prompts you to select the required auto-close time.	Set Auto-close time = 15s	 x1	
Scroll < or > to the required setting.	 	Display changes respectively.	Set Auto-close time = 20s		
With required setting displayed, press and release  .		Display briefly shows the new setting is saved.	Set Auto-close Saved = 20s		
If Complex was selected, scroll < or > to the required quick close time.		Display changes respectively.	Set Quick-close time = 2s		
With required setting displayed, press and release  .		Display briefly shows the new setting is saved.	Set Quick-close Saved = 2s		
After display confirms new setting.		Display returns to programming menu options list.	BT Mode Setting <  = change >	 x2	
Scroll left or right to next program option.		 	OR	EXIT back to standby status 	"Selected" mode - Standby
























Receiver Setup		Receiver programming and setup. Setting up a new user: - Quick learn method.			
From Standby status		- “Selected” mode - - Standby	The barrier can be in any position when performing this routine. Please note that if an ET BLU MIX © transmitter is being used and not all of the buttons have been set to the same format, then the receiver will allocate 2 user addresses for the various buttons. 1 for the buttons set to ET BLU MIX© and 1 for the buttons set to ET BLUE.		
Action		Response			
		Description	Display	Buzzer	Barrier
To enter the program menu. Press and hold the  button until buzzer beeps.		Display and buzzer confirms.	Programming menu <or> for options	 x2	
Scroll < or > to select the receiver setup option.		Display scrolls through options.	Receiver Setup <  = change >		
With “Receiver Setup” on the display, press and release  .		Display shows current option status.	Receiver Setup Quick learn	 x1	
With “Quick learn” on the display, press and release  .		Display prompts you to select a function.	Select function BT, Full opening		
Scroll < or > to the required receiver function/channel option. NB! Corresponding 4 function learn option is explained in the next instruction table on the next page.		Display changes respectively.	Select function BT, Full opening	 x1	
			Select function Pedestrian opening		
			Select function Auxiliary relay		
			Select function Holiday lockout		
			Select function Corresponding		
Press and hold required button on the remote transmitter.					
While still transmitting with the remote button, press and release  .		After the  button has been released, the user address for that transmitter displays and the buzzer beeps once.		 x1	
Release the button on the remote transmitter.					
Repeat the last 4 steps here for additional users or functions, or exit back one level in the receiver setup menu for other receiver setup options.					
Scroll left or right to next program option.			OR	EXIT back to standby status	
		“Selected” mode - Standby			





















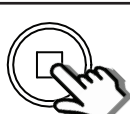










Receiver programming and setup. Setting up a new user: - Quick learn method. (Corresponding 4 function learn option)					Receiver Setup
From Standby status		- "Selected" mode - - Standby	The barrier can be in any position when performing this routine.		
Action		Response			
		Description	Display	Buzzer	Barrier
To enter the program menu. Press and hold the  button until buzzer beeps.		Display and buzzer confirms.	Programming menu <or> for options	 x2	
Scroll < or > to select the receiver setup option.		Display scrolls through options.	Receiver Setup <  = change >		
With "Receiver Setup" on the display, press and release  .		Display shows current option status.	Receiver Setup Quick learn	 x1	
With "Quick learn" on the display, press and release  .		Display prompts you to select a function.	Select function BT, Full opening		
Scroll < or > to the corresponding learn option.			Select function Corresponding	 x1	
Press and hold any button on the remote transmitter. All four buttons must be set to the same format for this to work in the same way as this example.					
While still transmitting with the remote button, press and release  .		After the  button has been released, the user address for that transmitter displays and the buzzer beeps once.		 x1	
Release the button on the remote transmitter.					
Each button on that remote transmitter has been allocated to the channels on the receiver. Please see below for the automatic button to receiver channel allocations.					
Repeat the last 4 steps here for additional users or exit back one level in the receiver setup menu for other receiver setup options.					
Scroll left or right to next program option.		OR	EXIT back to standby status		"Selected" mode - Standby













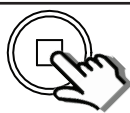

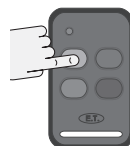


























All buttons should be set to either ET BLUE format or ET BLU MIX © format for this to work as shown here.

Receiver Setup		Receiver programming and setup. Setting up a new user: - Advanced learn method.			
From Standby status		- "Selected" mode - - Standby	The barrier can be in any position when performing this routine. Please note that if an ET BLU MIX © transmitter is being used and not all of the buttons have been set to the same format, then the receiver will allocate 2 user addresses for the various buttons. 1 for the buttons set to ET BLU MIX© and 1 for the buttons set to ET BLUE.		
Action		Response			
		Description	Display	Buzzer	Barrier
To enter the program menu. Press and hold the  button until buzzer beeps.		Display and buzzer confirms.	Programming menu <or> for options	 x2	
Scroll < or > to select the receiver setup option.	 	Display scrolls through options.	Receiver Setup <  = change >		
With "Receiver Setup" on the display, press and release  .		Display shows receiver setup options.	Receiver Setup Quick learn	 x1	
Scroll < or > to select the advanced learn option.	 	Display changes respectively.	Receiver Setup Advanced learn	 x1	
With "Advanced learn" on the display, press and release  .		Display prompts you to select an available user address.	Select address < 1 = used >		
Scroll < or > to select an available user address.	 	Display changes respectively.	Select address < 2 >		
With an available user address on the display, press and release  .		Display changes to receiver functions list.	Select function BT, Full opening		
Scroll < or > to the required receiver function/channel option. NB! Corresponding 4 function learn option is explained in the next instruction table on the next page.	 	Display changes respectively.	Select function BT, Full opening	 x1	
			Select function Pedestrian opening		
			Select function Auxiliary relay		
			Select function Holiday lockout		
			Select function Corresponding		
Press and hold required button on the remote transmitter.					
While still transmitting with the remote button, press and release  .		After the  button has been released, the user address for that transmitter displays and the buzzer beeps once.		 x1	
Release the button on the remote transmitter.					
Repeat the last 4 steps here for additional functions or exit back one level in the receiver setup menu for other options.					
Scroll left or right to next program option.		 	OR	EXIT back to standby status	 "Selected" mode - Standby

Receiver programming and setup. Erasing a single user from the memory.					Receiver Setup
From Standby status		- "Selected" mode - - Standby	The barrier can be in any position when performing this routine.		
Action		Response			
		Description	Display	Buzzer	Barrier
To enter the program menu. Press and hold the  button until buzzer beeps.		Display and buzzer confirms.	Programming menu <or> for options	 x2	
Scroll < or > to select the receiver setup option.	 	Display scrolls through options.	Receiver Setup <  = change >		
With "Receiver Setup" on the display, press and release  .		Display shows current option status.	Receiver Setup Quick learn	 x1	
Scroll < or > to select the Erase remotes option.	 	Display scrolls through options.	Receiver Setup Erase remotes		
With "Erase remotes" on the display, press and release  .		Display shows first erase option.	Erase Remotes Select Address		
With "Select Address" on the display, press and release  .		Processor scans the memory and then displays the first available user address that can be erased.	Erase Address < 1 >		
Scroll < or > to the user address that you would like to erase.	 	Display scrolls through available user addresses.	Erase Address < 5 >		
With the correct user address displayed, press and release  .		Display confirms the user address has been erased.	Erase Remotes Erase done	 x2	
After the display confirms the erasing of the address is done.	Erase Remotes Erase done	Display reverts to main erase remotes options.	Erase Remotes Select Address		
Repeat the last 4 steps here to erase additional users or exit back one level in the receiver setup menu for other receiver setup options.					
Scroll left or right to next program option.	 	OR	EXIT back to standby status		"Selected" mode - Standby

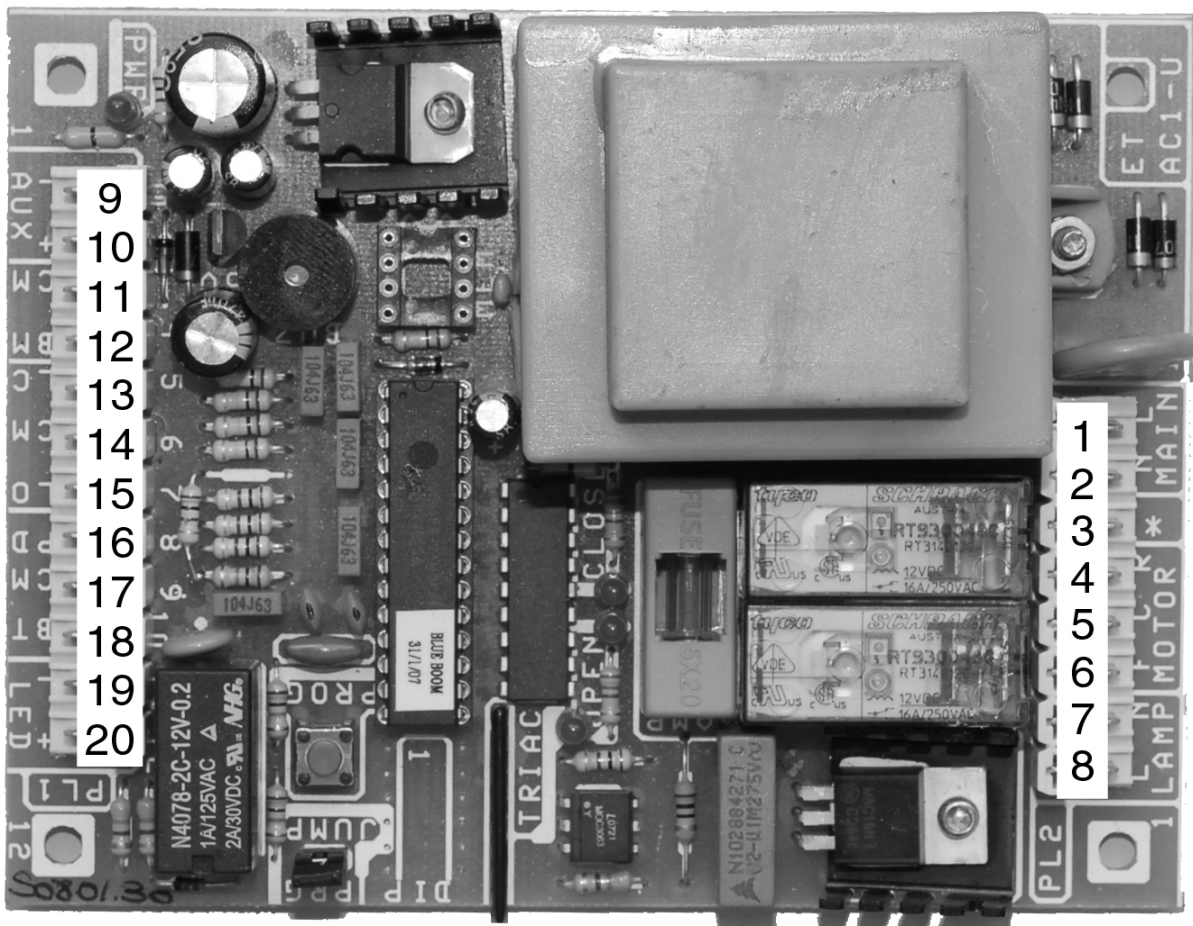
Receiver Setup		Receiver programming and setup. Master erasing all users from the memory.			
From Standby status		- "Selected" mode - - Standby	The barrier can be in any position when performing this routine.		
Action		Response			
		Description	Display	Buzzer	Barrier
To enter the program menu. Press and hold the  button until buzzer beeps.		Display and buzzer confirms.	Programming menu <or> for options	 x2	
Scroll < or > to select the receiver setup option.	 	Display scrolls through options.	Receiver Setup <  = change >		
With "Receiver Setup" on the display, press and release  .		Display shows current option status.	Receiver Setup Quick learn	 x1	
Scroll < or > to select the Erase remotes option.	 	Display scrolls through options.	Receiver Setup Erase remotes		
With "Erase remotes" on the display, press and release  .		Display shows first erase option.	Erase Remotes Select Address		
Scroll < or > to select the Erase ALL memory option.	 	Display scrolls through options.	Erase Remotes Erase ALL memory		
With "Erase ALL memory" on the display, press and release  .		Display then prompts you to press and hold the  button.	Hold  to erase ALL		
When prompted, press and hold  .		Display prompts you to now also begin holding the > button.	Hold  and > to erase ALL		
While holding  begin holding the > button.	 	Display confirms the erase ALL is about to begin. Buzzer beeps intermittently. Releasing either button at this stage will abort the master erase.	Continue holding  and > ----- Preparing to erase ALL	 On/off...	
When buzzer silences. Release the buttons.		Master erase begins. Display confirms.	Erasing ALL Please wait...		
After erase ALL is complete.		Display confirms.	Erase ALL Erase complete		
After the display confirms the erase ALL is complete.	Erase ALL Erase complete	Display reverts to main erase remotes options.	Erase Remotes Erase ALL memory		
Scroll left or right to next program option.		 	OR	EXIT back to standby status	
					"Selected" mode - Standby

Receiver programming and setup. Diagnose remotes.					Receiver Setup
From Standby status		- "Selected" mode - - Standby	The barrier can be in any position when performing this routine. This feature can be used to determine if there is 433.92MHz radio interference. Use this feature to check previously learnt remotes.		
Action		Response			
		Description	Display	Buzzer	Barrier
To enter the program menu. Press and hold the  button until buzzer beeps.		Display and buzzer confirms.	Programming menu <or> for options	 x2	
Scroll < or > to select the receiver setup option.	 	Display scrolls through options.	Receiver Setup <  = change >		
With "Receiver Setup" on the display, press and release  .		Display shows current option status.	Receiver Setup Quick learn	 x1	
Scroll < or > to select the Diagnose Remotes option.	 	Display scrolls through options.	Receiver Setup Diagnose Remotes		
With "Diagnose Remotes" on the display, press and release  .		Display prompts you to press and release a remote button.	Diagnose Remotes Press Remote		
After prompt.		Display shows a signal strength graph and waits for a remote transmission.	Signal:  Not recognised		
Press and release remote that you are testing.		If the remote button is in the memory the display will confirm the signal strength, user address and function of that button. The higher the graph goes, the stronger the signal.	Signal:  Adr: 1 Func: BT		
		If the remote button is not in the memory the display will confirm the signal strength and confirm the remote is not recognised.The higher the graph goes, the stronger the signal.	Signal:  Not recognised		
Multiple remote buttons can be tested by repeating the last step above here.					
Press and hold the X button when finished testing.		Display Diagnose Remotes option has been exited and buzzer beeps.	Diagnose Remote Exited	 x1	
Release X button.		Display reverts to Receiver Setup options.	Receiver Setup Diagnose Remote		
Scroll left or right to next program option.		 	OR	EXIT back to standby status	
					"Selected" mode - Standby

Receiver Setup		Receiver programming and setup. Receiver information.			
From Standby status		- “Selected” mode - - Standby	The barrier can be in any position when performing this routine.		
Action		Response			
		Description	Display	Buzzer	Barrier
To enter the program menu. Press and hold the  button until buzzer beeps.		Display and buzzer confirms.	Programming menu <or> for options	 x2	
Scroll < or > to select the receiver setup option.	 	Display scrolls through options.	Receiver Setup <  = change >		
With “Receiver Setup” on the display, press and release  .		Display shows receiver setup options.	Receiver Setup Quick learn		
Scroll < or > to select the Receiver info option.	 	Display changes respectively.	Receiver Setup Receiver info		
With “Receiver info” on the display, press and release  .		Display begins toggling between the number of user addresses used out of the total memory and the software version.	Receiver Info used: 1 of 1023 ----- Receiver Info Software ver: 2		
Press and release X to exit back to receiver setup options.		Display changes back to main receiver setup options level and buzzer beeps.	Receiver Setup Receiver info	 x1	
Scroll left or right to next program option.		 	OR	EXIT back to standby status	
					“Selected” mode - Standby

Advance programming options and their definitions.	
Barrier Speed	This option allows you to reduce the maximum run speed in either both open and close direction or independently.
Soft stop speed	This option allows you to adjust the speed the barrier slows down to when the soft stop switches are triggered.
Aux Relay Setup.	Lock mode - This option allows you to control either a electro-mechanical lock like an electric rim lock or a magnetic lock. The relay on time can be adjusted in strike lock mode.
	RX1 Module - This option allows you to combine the third channel of the receiver with the auxiliary relay to operate like an ET RX1 receiver. The relay can be set to latch mode or the on relay on time can be adjusted to any time between 1 and 60 seconds. The receiver is a single shot receiver.
	Light switch - This option is used as a switch in the driveway lighting circuit where the lights will come on as the barrier opens and will switch off after the barrier has closed again. In this mode the third channel of the receiver when triggered will switch the auxiliary relay no matter the barrier position. There are two on times which are adjustable. Light on time whenever barrier opens and light on time when remotely triggered.
	Traffic light - This option allows for timed traffic light switching between green and red.
Blue-bus Setup.	This control unit can be used with the NICE Blue-bus two wire devices like the Blue-bus safety beam products. This function must be run when adding or removing any Blue-bus devices to the system.
Power Settings.	Battery charger - This option allows you to disable the battery charger where a larger capacity intelligent charger has been installed additionally to maintain the battery level of additional batteries larger than 7Ah. By disabling the built in charger you remove any possibility of interfering with the external charger's diagnostics thus optimising the external battery and charger's performance.
	AC monitoring - This option allows you to disable the Vac mains failure monitoring on sites where a solar panel system has been installed to maintain the battery.
Controller setup.	LCD Contrast Adj - This allows you to adjust the contrast between the text and the background of the LCD display.
	Adv Beam Setup - In the case of a safety beam circuit being installed without an end of line resistor, it is still possible to meet the stringent CE safety standards by activating this function that intelligently monitors the safety beam circuit.
	Alarm output setup - The Drive and Wide series of operators, monitor for tampering conditions namely; safety beam tampering, barrier lifted in all of the series and barrier kept open for too long in the case of the Drive 500, 600, 1000 and Wide. Jammed open - Use this feature to adjust the length of time the barrier is permitted to remain open for before the alarm activates. On board alarm - Use this feature to enable or disable the on board buzzer sounding whenever the alarm activates. Alarm output invert - Use this feature to set the alarm output to switch to 0V (Disable) or switch from 0V (Enable) in an alarm condition.
	BT on-board - Use this feature to enable or disable the on-board BT button.
	Wired BT Enable - Use this feature to enable or disable the hardwired BT input.
	Wired E-Stop Enable - Use this feature to enable or disable the hardwired pedestrian input.
	Wired Open only Enable - Use this feature to enable or disable the hardwired loop input.
	PIN Code lock-out - Use this feature to prevent any access to the programming menus.
	Cycle count - Use this to see how many times the barrier has been operated. This counter cannot be reset in the field.
	Event log - Use this to see a log of the most recent barrier open and close operations.
	Fault log - Use this to see a log of the last 30 fault conditions.
	Trigger log - Use this to see a log of the last 30 triggers.
	Last overload info - Use this to see the recorded position of the last barrier overload.
	Firmware version - Use this to see the control card firmware version.
	Hardware version - Use this to see the control card hardware version.
IEC Standards	Use this feature to enable or disable IEC safety standards mode.
Reset and Restore	Set restore point - Use this to set a restore point.
	Restore settings - Use this feature to restore all controller settings to the last saved restore point.
	Clear logs - Use this feature to clear the event, fault and trigger logs. NB! this does not clear the cycle counter.
	Factory reset - Use this feature to default all controller settings to factory settings. NB! this does not factory reset the receiver memory or clear the cycle counter.

Termination and mode selection of the Access AC HS control card.



PRG JUMPER (Mode selection)

ON: (Simplex mode)

- TRIGGER TO OPEN
- TRIGGER TO CLOSE
- TRIGGER WHILE OPENING WILL STOP THE POLE, TRIGGER AGAIN TO CLOSE
- TRIGGER WHILE CLOSING WILL REVERSE THE POLE DIRECTION

OFF: (Complex auto-close mode)

- TRIGGER TO OPEN
- IF NO BEAM INPUT IS ACTIVATED, THE POLE WILL CLOSE AFTER 20 SECONDS
- IF THE BEAM INPUT IS ACTIVATED, THE POLE WILL CLOSE AFTER 2 SECONDS.
- IF THE BUTTON INPUT IS MADE WHILE THE POLE IS IN THE OPEN POSITION THE 20 SECOND COUNT WILL RE-START.
- IF THE BUTTON INPUT IS MADE WHILE THE POLE IS CLOSING THE POLE WILL REVERSE AND THE 20 SECOND COUNTER WILL RESTART. IF BEAM INPUT IS ACTIVATED THE POLE WILL CLOSE AFTER 2 SECONDS.

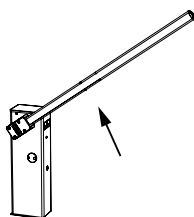
1. 220Vac Live input
2. 220Vac Neutral input
3. Not used
4. Capacitor white and motor Brown
5. Motor Green
6. Capacitor white and motor Blue
7. Fan (Optional)
8. Fan (Optional)
9. Common output
10. 12Vdc 160mA Max. Aux output
11. Common output (with wire link to Safety presence loop/IR Beam input remove link when installing beams or loop)
12. Safety presence loop/IR Beam input (Linked to common remove link when installing beams or loop) (N/C)
13. Closed Limit input Blue (N/O)
14. Common output
15. Open Limit input Brown (N/O)
16. Not Used
17. Common output
18. Button trigger input (N/O)
19. Status LED Cathode output
20. Status LED Anode output

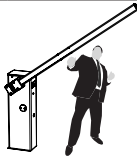
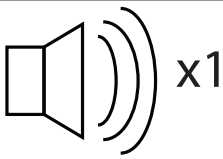
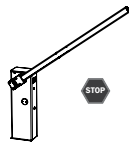
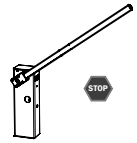
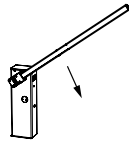
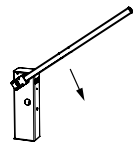
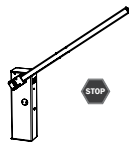
In the case of a bi-directional entry and exit point using a free exit loop, connect the common of the detector relay to the closed limit input. This prevents the car from stopping the boom from lowering when the car passes over the loop.

Basic operating features.	Collision sensing and safety overload routines Access DC model only	
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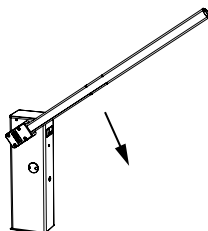
In the case of the barrier colliding with an obstruction such as a person passing through the entrance way, the collision sensing will automatically detect the collision and the system will run a safety overload routine.


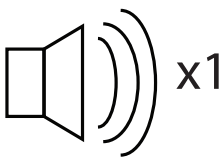
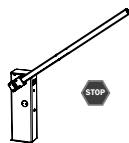
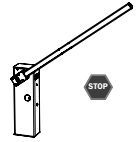
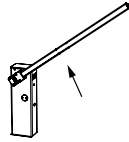

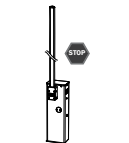
Safety overload routine while barrier is opening.

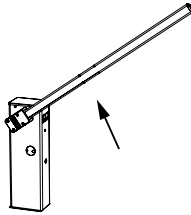

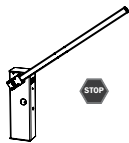
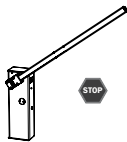


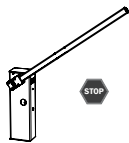


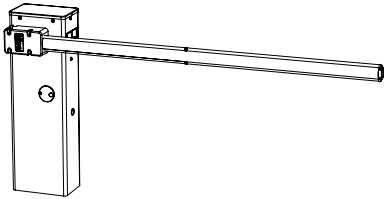

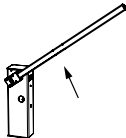
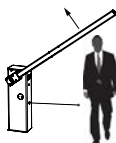







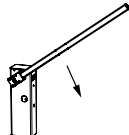
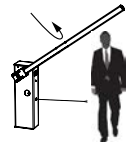



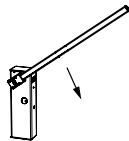
Action		Response		
Barrier collides with a pedestrian for example.		Barrier stops opening.		
Once barrier has stopped.		Barrier reverses momentarily to release pressure.	No buzzer tones.	
After reversing momentarily.		Barrier stops and waits for next trigger to close.	No buzzer tones.	

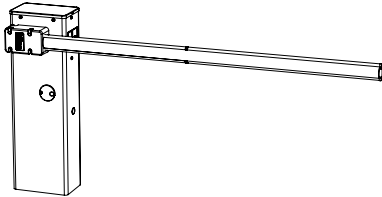
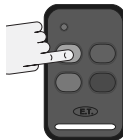
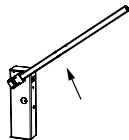


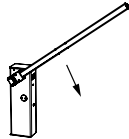

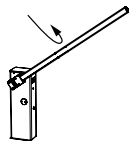
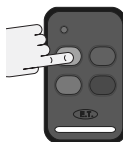
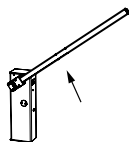

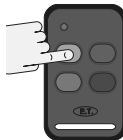
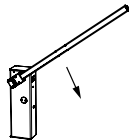
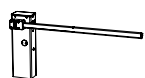
Safety overload routine while barrier is closing.



Action		Response		
Barrier collides with a pedestrian for example.		Barrier stops closing.		
Once barrier has stopped.		Barrier reverses back to the full open position.	No buzzer tone.	
After reversing to the full open position.		Barrier remains in the full open position until the next trigger to close.	No buzzer tone.	

Basic operating features.		Collision sensing and safety overload routines Access AC HS model only		
In the case of the barrier colliding with an obstruction such as a person passing through the entrance way, the collision sensing will automatically detect the collision and the system will run a safety overload routine.				
Safety overload routine while barrier is opening or closing.				
				
Action		Response		
Barrier collides with a pedestrian for example.		Barrier stops opening.		
Once barrier has stopped.		Safety run timer continues until it expires.		
Once the timer has expired.		Motor drive circuit switches off.		

	Safety infra-red beams function. All modes except complex mode.		Basic operating features	
If the safety beam input has been switched on, the control card will constantly monitor to ensure a set of safety beams is installed. NB! You will not be able to activate simplex auto-close mode or complex auto-close mode with out a safety device installed and configured. Below is an example of how the barrier will behave whenever the safety beam input is activated.				
Barrier closed.				
Action		Response		
Momentary BT trigger.		Barrier begins opening.	No buzzer tones.	
Safety beam input triggered while barrier is opening.		Barrier continues opening	No buzzer tones.	
At full open position. Safety beam input still triggered.		Barrier stops and waits for next trigger to close.	No buzzer tones.	
Momentary BT trigger.		Trigger is ignored and barrier remains open.	No buzzer tones.	
Safety beam input cleared.		Barrier remains in the full open position until the next trigger to close.	No buzzer tone.	
Momentary BT trigger.		Barrier begins closing.	No buzzer tone.	
Safety beam input while the barrier is closing.		Barrier stops and reverses open.	No buzzer tone.	
At the full open position.		Barrier stops and waits for next trigger to close.	No buzzer tone.	
Momentary BT trigger.		Barrier begins closing.	No buzzer tone.	

Basic operating features		“BT” Button triggers. Simplex mode.		
The BT functions are the primary full barrier opening functions for motor vehicle access. There are three ways of activating the “BT” functions on this control card. Either via the hardwired BT input, on board BT or the BT receiver channel. In Standard mode the barriers respond to each BT trigger. In Standard mode you have access to the following advanced features: - Holiday lock-out and Party mode.				
Barrier closed.				
Action		Response		
Momentary BT trigger.		Barrier begins opening.	No buzzer tones.	
At full open position.		Barrier stops.	No buzzer tones.	
Momentary BT trigger.		Barrier begins closing.	No buzzer tones.	
Momentary BT trigger.		Barrier stops and immediately starts opening again.	No buzzer tones.	
Momentary BT trigger.		Barrier continues opening.	No buzzer tones.	
At full open position.		Barrier stops.	No buzzer tones.	
Momentary BT trigger.		Barrier begins closing.	No buzzer tones.	
At full closed position.		Barrier stops.	No buzzer tones.	

	"BT" Button triggers. Simplex auto-close mode.	Basic operating features
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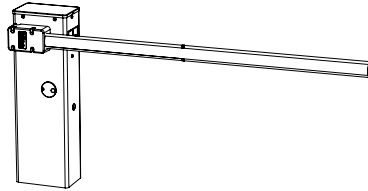
The BT functions are the primary full barrier opening functions for motor vehicle access.
There are three ways of activating the "BT" functions on this control card. Either via the hardwired BT input, on board BT or the BT receiver channel.


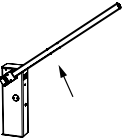
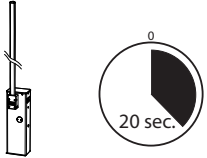

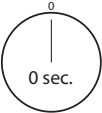
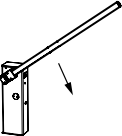

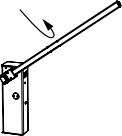


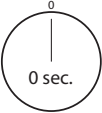
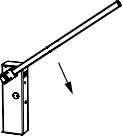
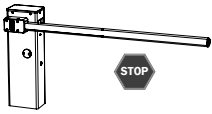
Simplex auto-close mode functions exactly the same as simplex mode except that the barrier will close automatically after the programmed BT auto-close timer has timed out.

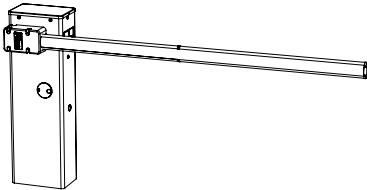
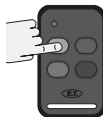
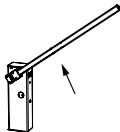

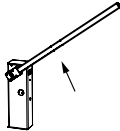
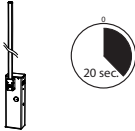

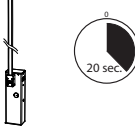

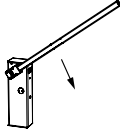

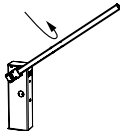
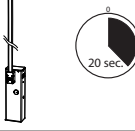
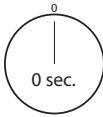
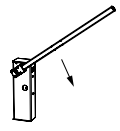
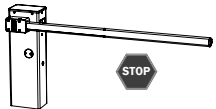
In this mode you have access to the following advanced features: - Holiday lock-out and Party mode.

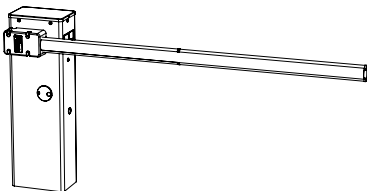
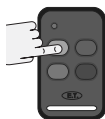
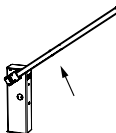
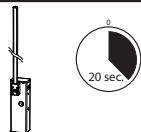
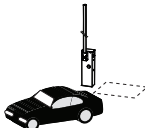
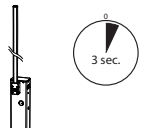
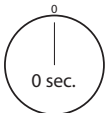
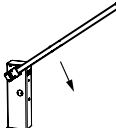
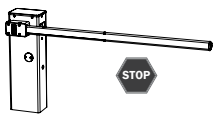
NB! For any auto-close feature to work, a pair of safety infra-red beams must be installed and functioning correctly.

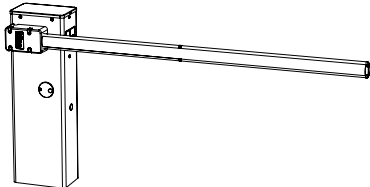

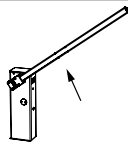
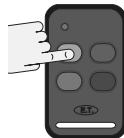
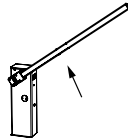


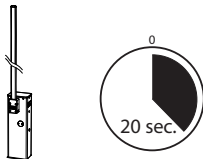

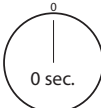
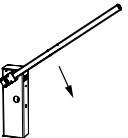
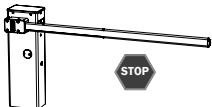
Barrier closed.



Action		Response		
Momentary BT trigger.		Barrier begins opening.	No buzzer tones.	
At full open position.		Barrier stops. Auto-close timer begins counting down.	No buzzer tones.	
Momentary BT trigger or auto-close timer timeout. Safety beam input not triggered.	 	Barrier begins closing.	No buzzer tones.	
Momentary BT trigger.		Barrier stops and immediately starts opening again.	No buzzer tones.	
At full open position.		Barrier stops.	No buzzer tones.	
Momentary BT trigger or auto-close timer timeout. Safety beam input not triggered.	 	Barrier begins closing.	No buzzer tones.	
At full closed position.		Barrier stops.	No buzzer tones.	

Basic operating features	“BT” Button triggers. Complex auto-close mode. Scenario 1.			
The BT functions are the primary full barrier opening functions for motor vehicle access. There are three ways of activating the “BT” functions on this control card. Either via the hardwired BT input, on board BT or the BT receiver channel. In Complex auto-close mode the following advanced features are not available: - Holiday lock-out and Party mode. NB! For any auto-close feature to work, a pair of safety infra-red beams must be installed and functioning correctly.				
<div>Barrier closed.</div> 				
Action		Response		
Momentary BT trigger.		Barrier begins opening.	No buzzer tones.	
Momentary BT trigger while barrier is opening.		The trigger is ignored and the barrier continues opening.	No buzzer tone.	
At full open position.		Barrier stops and auto-close timer starts counting down.	No buzzer tones.	
Momentary BT trigger.		Barrier remains open and auto-close timer resets.	No buzzer tones.	
Auto-close timer timeout. Safety beam input not triggered.		Barrier begins closing.	No buzzer tones.	
Momentary BT trigger.		Barrier stops and immediately starts opening again.	No buzzer tones.	
At full open position.		Barrier stops and auto-close timer starts counting down.	No buzzer tones.	
Auto-close timer timeout. Safety beam input not triggered.		Barrier begins closing.	No buzzer tones.	
At full closed position.		Barrier stops.	No buzzer tones.	

	“BT” Button triggers. Complex auto-close mode. Scenario 2.			Basic operating features
<p>The BT functions are the primary full barrier opening functions for motor vehicle access.</p> <p>There are three ways of activating the “BT” functions on this control card. Either via the hardwired BT input, on board BT or the BT receiver channel.</p> <p>In Complex auto-close mode the following advanced features are not available: - Holiday lock-out and Party mode.</p> <p>NB! For any auto-close feature to work, a pair of safety infra-red beams must be installed and functioning correctly.</p>				
<div>Barrier closed.</div> 				
Action		Response		
Momentary BT trigger.		Barrier begins opening.	No buzzer tones.	
At full open position.		Barrier stops and auto-close timer starts counting down.	No buzzer tone.	
Vehicle passes through.		Autoclose timer cancels and quickclose timer starts.	No buzzer tones.	
Quick-close timer timeout. Safety not triggered.		Barrier begins closing.	No buzzer tones.	
At full closed position.		Barrier stops.	No buzzer tones.	

Basic operating features		“Open only” trigger.		
<p>The open only trigger mode is commonly used to open the barrier and to keep it open.</p> <p>The only way to trigger loop is via the hardwired OPEN input.</p>				
Barrier closed.				
Action		Response		
OPEN trigger made.		Barrier begins opening.	No buzzer tones.	
Momentary BT trigger while barrier is opening.		The trigger is ignored and the barrier continues opening.	No buzzer tone.	
At full open position.		Barrier stops.	No buzzer tones.	
OPEN trigger released		Barrier remains open and auto-close timer starts, if any autoclose mode is active.	No buzzer tones.	
Auto-close timer timeout or BT trigger. Safety beam input not triggered.	 	Barrier begins closing.	No buzzer tones.	
At full closed position.		Barrier stops.	No buzzer tones.	

Diagnostics Menu This menu allows you to monitor certain key parameters while the barrier is running or stopped. You do not need to enter programming mode to view this menu.		
Speed:	The current speed of the motor in meter per minute.	The higher the barrier resistance, the lower the barrier speed.
Distance:	The distance moved from the closed position.	This can be anything up to 40m.
Current:	The current that is being drawn by the motor.	The higher the barrier resistance, the more current the motor will draw to run the barrier.
Force:	The force being applied to the rack by the motor.	This will drop as the barrier momentum takes over.
PSU:	The PSU voltage. This will not show when no PSU is installed.	This should be between 30 - 38V.
AC:	The AC input voltage, this will also show when a PSU is installed.	This should be between 29 - 37V.
Aux 12v:	12v auxiliary output voltage.	This should be stable at 11 - 13Vdc.
Power Supply:PSU	Motor power is being supplied by the PSU.	This will vary depending on the status of the mains power supply and/or the intelligent charger stage.
Power Supply:Bat	Motor power is being supplied by the battery.	This will vary depending on the status of the mains power supply and/or the intelligent charger stage.
Battery:	Battery voltage.	This may seem to pulse, this is part of the charge sequence.
Bat health: None	Battery health not yet measured.	Run +/- 20 full cycles to get your first reading.
Bat health: Good	Battery health Good.	Battery does not need replacing.
Bat health: Fair	Battery health Fair.	Battery does not need replacing.
Bat health: Poor	Battery health Poor.	Consider replacing battery.
Bat: Supply	Battery charger status: Battery is the supply.	This will vary depending on the status of the mains power supply and/or the intelligent charger stage.
Bat: Curr limit	Battery charger status: Charger is in current limiting.	Battery is level is low or there is a battery wiring fault.
Bat:Err FET shrt	Battery charger status: The charger FET has failed.	Return control card for repair.
Bat:Err FET open	Battery charger status: The charger FET has failed.	Return control card for repair.
Bat: Turned off	Battery charger status: Charger turned off.	This is configured by the installer. Change if necessary.
Bat:Float charge	Battery charger status: Battery in float charge.	Charge voltage lowered slightly when battery not in use for a long period.
Bat: Charging	Battery charger status: Battery charging.	Charge current > 100mA. All is good.
Bat:Topup Charge	Battery charger status: Battery in top-up charge.	Charge voltage maintained at a higher voltage for 5 hours after current < 100mA. All is good.
Bat: Short	Battery charger status: There is a short across the battery terminals.	Remove short or replace faulty battery.
Bat: Removed	Battery charger status: No battery plugged in.	Install battery.
Bat: Low Supply	Battery charger status: The supply is too low to charge the battery.	Correct/repair the primary supply.
Bat: ERROR	Battery charger status: Another error has occurred.	Contact ET Systems for assistance.
Charge Cur:100mA	Indicates the battery charge current.	All is good.
Temp:	Indicates the PCB temperature (Accurate to 5° c)	Acceptable range -10° to 60° Celcius.
Barrier Mode: STD	Barrier is in standard mode, no auto-close.	Change if necessary.
Barrier Mode:A-Clos	Barrier is in Auto-close mode.	Change if necessary.
Barrier Mode: CONDO	Barrier is in condominium mode.	Change if necessary.
Barrier Mode: PIRAC	Barrier is in PIRAC mode.	Change if necessary.
Recent Rx =	Shows the last received remote user trigger.	This is useful when trying to track down a false trigger.
Encoder = South/ North	Indicates the encoder direction.	This should change as the encoder rotates, use to check encoder is working by rotating motor by hand.

Troubleshooting guide and display definitions.

Displayed on screen.	Definition.	Solution.
AC mon disabled	AC power monitoring disabled by the installer.	Only use when installing a separate charger system.
Address used <NO replace YES>	Selected address is already used by another remote, would you like to replace it?	If yes is selected, the new code will overwrite the current code in memory.
Adv Beam Setup Bus Beams in use	Blue Bus Beams are being used.	It is not possible to use Bus Beams and wired beams at the same time.
Alarm Activated	The alarm output has been activated.	Clear alarm condition.
Aux voltage high	Auxiliary 12v output is too high.	Hardware error or external connection supplying higher voltage.
Aux voltage low	Auxiliary 12v output is too low.	Hardware error or external connection drawing too much current
Bat monitor run	Barrier ran a cycle on battery power in order to cycle the battery and to perform health monitoring.	Continue to use barrier as per normal.
BAT voltage high	The battery voltage is out of specification - too high.	Most likely due to a charger fault external connection supplying higher voltage.
Battery short	There is a short on the battery output.	Faulty battery or battery wiring.
Beam interrupted	Barrier action caused by the beam being interrupted.	Clear barrier area to close barrier.
Beam Test 12v output error	There is an error on the Auxiliary 12 output.	It is likely that there is a short on this connection or too many devices have been connected to the output.
Beam Test Illegal wiring	The wiring used is not allowed.	Rewire the safety beam circuit as per page 15.
Beam Test Not switching	Beams are not switching when interrupted.	Check beam wiring (Page 15) and that they are being interrupted when prompted.
Beam Test, "Monitored HF N/C"	High frequency switched beam monitoring with Normally closed contacts wiring detected.	High safety option, IEC compliant.
Beam Test, "Monitored HF N/O"	High frequency switched beam monitoring with Normally Open contacts wiring detected.	Not allowed as this is not monitored, Not IEC compliant.
Beam Test, "Monitored LF N/C"	Low frequency switched beam monitoring with Normally closed contacts wiring detected.	High safety option, IEC compliant.
Beam Test, "Monitored LF N/O"	Low frequency switched beam monitoring with Normally Open contacts wiring detected.	High safety option, IEC compliant.
Beam Test, "R terminated N/C"	resistor terminated beam monitoring with Normally closed contacts wiring detected.	High safety option, IEC compliant.
Beam Test, "R terminated N/O"	resistor terminated beam monitoring with Normally Open contacts wiring detected.	Not allowed as this is not monitored, Not IEC compliant.
Beam Test, "Unmonitored N/C"	Unmonitored Normally Closed beam set wiring detected.	Low safety option, Not IEC compliant.
Beam Test, "Unmonitored N/O"	Unmonitored Normally Open beam set wiring detected.	Low safety option, Not IEC compliant.
Beam Test, "use N/C beam set"	Prompt to assist or is resolving fault.	Use normally closed beam circuit as per page 15.
Blue Bus Devices Change detected	A change was detected on the Blue Bus.	Rescan for Blue Bus devices.
Brown out Reset	Processor reset due to low supply voltage.	Check power supplies for low power failings.
Bus Calibrate High Volt Error	Blue Bus calibration error, bus voltage is too high.	Error on external circuitry. Double check wiring.
Bus Calibrate No Volt Error	Blue Bus error, no voltage detected.	Possibly a short on the bus or a fault with the drive circuitry on a module or the Drive1000 control card
Charg supply low	The supply voltage is too low for the charger to operate correctly.	Charger requires a minimum of 30V primary supply.
Charger disabled	Charger disabled by the installer.	Change if necessary.
Check beams	Possible error on the beam circuit preventing barrier auto-close in PED mode.	Clear barrier area, repair beams or beam wiring.
Close Run Ovsload	A current overload occurred during the full speed portion of travel while the barrier was closing.	Remove physical obstruction.
Close Slo Ovsload	A current overload occurred during the crawl portion of travel while the barrier was closing.	Remove physical obstruction.
Close Stall(enc)	The barrier stalled (encoder counting no longer detected) while closing.	Remove physical binding.

Displayed on screen.	Definition.	Solution.
Collision Timer	More than 4 collisions detected in a row, 10s timer prevents subsequent triggers.	Remove physical obstruction.
Condominium Mode Lock not allowed	Holiday lockout not allowed in Condominium mode.	Change BT mode to a mode that allows holiday lock-out.
Crawl distance = 0mm	Crawl distance is the distance the barrier runs as slow speed at either end, longer crawl improves safety.	Use longer crawl distances for heavier free moving barriers.
Enable beam for auto-close	auto-close can not be used without beams.	This is for safety, an IEC requirement.
Encoder error	There was an error detecting the motor encoder.	Ensure control card and ring magnet are securely fastened.
Erase address Comms Error	No data seen on RF.	If persistent, bring control card in for repair.
Erase ALL Comms Error	An error occurred when trying to communicate to the receiver module.	If persistent, bring control card in for repair.
ERROR: BAT voltage too high	BAT voltage high error. (when trying to run barrier)	The BAT voltage is too high and may cause damage to the motor drive circuitry.
ERROR: No high current source	Only low current power supply available.	No PSU or battery attached. Check wiring.
ERROR: PSU voltage too high	PSU voltage high error. (when trying to run barrier)	The PSU voltage is too high and may cause damage to the motor drive circuitry. Check 220Vac supply.
ERROR: RF comms	No data seen on RF.	If persistent, bring control card in for repair.
Factory Reset	A factory reset was performed.	Reconfigure control card programming and setup.
Find Limit	The barrier is searching for the limit.	Allow barrier to continue all the way closed.
Finding closed limit	Barrier is running slowly to the closed limit.	Allow barrier to continue all the way closed.
Flash mem error Reprogram board	Flash memory corrupt, reprogram the board.	Bring control card in for repair.
Barrier re-profile required	The barrier run-time setup needs to be re-done.	This is required when changing parameters that affect how the barrier runs and hence the overload sensing.
Holiday Locked	Holiday Lockout enabled.	Deactivate as per page 43.
IEC Mode Error No Beams	IEC mode has been enabled but there is an error.	Beams have been removed after enabling IEC mode, repair beam circuit.
Ill opcode Reset	Processor reset due to a software error.	If persistent, bring control card in for repair.
Learn Abort	Indicates that Learning barrier length failed.	Restart runtime setup.
Learn Aborted	Runtime setup aborted for some reason.	Restart runtime setup.
Learn Error Beam	Runtime setup failed because the beams were interrupted.	Restart runtime setup.
Learn Error Button Exit	Runtime setup failed because exit button was pressed.	Restart runtime setup.
Learn Error Barrier Too Long	Runtime setup failed because barrier length is >40m.	Reduce barrier opening distance before attempting runtime setup again.
Learn Error Barrier Too Short	Runtime setup failed because barrier length is <1m.	Increase barrier opening distance before attempting runtime setup again.
Learn Error Limit Range	Runtime setup failed because the limit is out of range.	Limit moved or considerable rack jumping. Refasten limit actuator.
Learn Error Manual Released	Runtime setup failed because manual release lever was actuated.	Re-engage manual override or repair manual override monitoring circuit.
Learn Remote Err: Time-out	No ET Blue or ET BluMix remote detected within 2s.	Check that you are using a matching frequency ET Blue or ET BLU MIX transmitter that is functional.
Learn Remote Err:Decode error	Invalid remote detected.	You can only use ET Blue or ET BLU MIX transmitters.
Learn Remote Err:RSSI TimeOut	No remote detected within 2s.	Check that you are using a matching frequency ET Blue or ET BLU MIX transmitter that is functional.
Limit faulty	The limit sensor is faulty.	Shown when no limit is found within the expected limit window.
Limit Range Err	Closed limit not detected within an acceptable range.	Limit moved or considerable rack jumping. Refasten limit actuator.
Manual Released	Manual release lever activated.	Re-engage manual override or repair manual override monitoring circuit.

Displayed on screen.	Definition.	Solution.
Master clr Reset	Processor reset due to a hardware reset.	If persistent, bring control card in for repair.
Motor Unwind	Motor backing off slightly after overload to prevent gear system jamming up.	Remove physical obstruction.
No hi cur source	No current source present to run the motors.	Ensure either a battery or the PSU is connected.
None	No log item recorded yet.	A log will automatically build as the system is used.
Open half	Barrier is open halfway in "BT" Standard mode.	Page 33.
Open PED	Barrier is open to the PED distance.	Pages 37 and 38.
Open Run Ovload	A current overload occurred during the full speed portion of travel while the barrier was opening.	Remove physical obstruction.
Open Slo Ovload	A current overload occurred during the crawl portion of travel while the barrier was opening.	Remove physical obstruction.
Open Stall(enc)	The barrier stalled (encoder counting no longer detected) while opening.	Remove physical obstruction.
Over temperature	The board experienced an over temperature situation.	This will clear when temperature returns to normal.
Overload	Barrier has overloaded.	There could be an obstruction in the path of the barrier, try increasing "Overload Setting"
Ped auto-close disabled	If beams are disabled Ped auto-close will also be disabled, This is an IEC standard.	Install a set of beams to facilitate any auto-close function. Pages 15 and 19.
Ped auto-close enabled = 2s	If beams are enabled Ped auto-close is enabled by default for added security.	Page 38.
Ped length reset to barrier length	If the barrier length is changed to be shorter than the PED length then PED length is shortened.	Pages 18 and 21.
PED Mode Setting < 00mm >	Displays whether PED mode is in Auto-close or standard mode and what the distance is set to.	Pages 37 and 38.
Pedestrian open distance: 00mm	The distance the barrier will open on a pedestrian trigger.	Page 21.
Power error braking	Device is about to shut down due to low power, motor is slowing down.	Low AC, PSU and Bat voltages.
Power error resetting	Device is about to shut down due to low power, processor is waiting to reset.	Low AC, PSU and Bat voltages.
Power on Reset	Processor reset due to being powered up.	Wait for display to show "Standby" before continuing.
Program Run-time	Barrier run time has not been programmed before trying to run barrier.	Page 18.
PSU voltage high	The PSU supply voltage is out of specification - too high.	Check mains input is < 255Vac.
QC test passed	Quality Control test was passed.	Continue to use system as per normal.
Ramp Open Stall	The barrier stalled while ramping up in the open direction.	Remove physical obstruction.
Remote not Learnt	Learning error.	Check that you are using a matching frequency ET Blue or ET BLU MIX transmitter that is functional.
Restore settings	Backed up settings were restored.	Page 30.
Run-time NOT set	Please perform a runtime setup before attempting to run the barrier.	Page 18.
Searching Limit	Barrier is closing looking for the closed limit.	Allow barrier to continue all the way closed.
Set Limit before Ped distance	The PED distance can not be set before the runtime setup has been completed.	Page 18.
Signal: Not recognised	Unknown ET Blue or BluMix TX detected.	Program the remote button into the receiver memory. Page 22.
Software Reset	Processor reset due to a software command.	Continue scrolling through log.
Standby	Motor in standby, everything operating normally.	Continue to use the system as normal.
TRAP Reset	Processor reset due to a software error.	If persistent, bring control card in for repair.
TX already in memory	Remote already in memory, button learnt but at a different address.	Each remote can only occupy 1 memory address.
WARNING: Bat Health: Poor	Warning if the battery health is poor and the barrier is running off battery.	Consider replacing the battery.
Watchdog Reset	Processor reset due to a software error.	If persistent, bring control card in for repair.

WARRANTY:

1. All goods manufactured by ET Nice (Pty) Ltd carry a 12 month factory warranty from date of invoice.
2. All goods are warranted to be free of faulty components and manufacturing defects.
3. Faulty goods will be repaired or replaced at the sole discretion of ET Nice (Pty) Ltd free of charge. Within the warranty period.
4. This warranty is subject to the goods being returned to the premises of ET Nice (Pty) Ltd.
5. The carriage of goods is for the customer's account.
6. This warranty is only valid if the correct installation and application of goods, as laid out in the applicable documentation accompanying said goods, is adhered to.
7. All warranty claims must be accompanied by the original invoice.
8. All claims made by the end user must be directed to their respective service provider/installer.

The following conditions will disqualify this product from the warranty as laid out above. These conditions are non- negotiable.

1. Any unauthorized non-manufacturer modifications to the product or components thereof.
2. Any modification to the installation methods described in the installation instructions.
3. Any application or use of the product other than the intended use and application described in the product documentation.

The following items are not included in the warranty or they carry a special warranty condition of their own.

1. The battery (Limited 6 month warranty)
2. The motor brushes.
3. Damage resultant of wind and other climatic influences such as lightning strikes.
4. Damage due to high voltage surges on the household mains or short circuiting of the barriers to the electric fencing.
5. Damage due to infestation i.e. Ants nesting...
6. Water damage. It is the responsibility of the installer to ensure the product is installed in a location that is protected from water ingress. The ingress protection rating is specified in the accompanying documentation. Housings that require that cable entries are made by the installer do not carry an ex-factory ingress protection rating as it is the responsibility of the installer to seal the cable entry points after installation of the cabling.