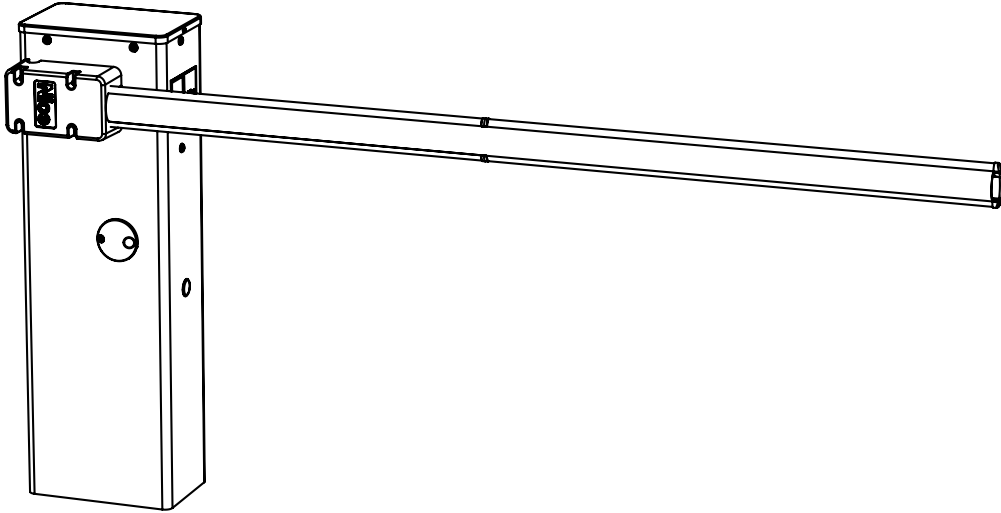


Installer Instructions



High Traffic, Battery Back-up Traffic Barrier



| Introduction. | |
|---|---|
| Page 3 | Be Safe! Instructions, warnings and obligations. |
| Page 4 | Technical specifications. |
| Page 5 | Component identification and descriptions. |
| Site preparation. | |
| Page 6 | Pole lengths (limitations) and pole accessory kits. |
| Page 7 | Calculating the duty cycle. |
| Page 7 | Positioning the barrier. |
| Page 8 | Typical cabling requirements. |
| Hardware installation - Mechanical. | |
| Page 9 | Baseplate kit and installing the baseplate. |
| Page 10 | Opening the cabinet. |
| Page 10 | Mounting onto the baseplate. |
| Page 11 | How to use the manual override. |
| Page 11 | Changing the handedness of the barrier. |
| Page 12 | Attaching the boom pole mounting to the output shaft. |
| Page 13 | Checking and adjusting the spring balancing. |
| Hardware installation - Electrical. | |
| Page 14 | Terminating the AC supply. |
| Page 15 | Wiring and termination of the control card. |
| Page 16 | Adjusting the slow down switches. |
| Control card programming and setup. | |
| Page 17 | Programming menu quick reference guide. |
| Page 18 | Setting up the barrier runtime. |
| Page 19 | Selecting a safety level. |
| Page 19 | Safety infra-red beams setup. |
| Page 20 | Selecting a BT operating mode and adjusting the BT auto-close time. |
| Page 22 | Receiver programming and setup. |
| Page 29 | Advance programming options and their definitions. |
| Operating mode definitions and examples. | |
| Page 31 | Collision sensing and safety overload routines |
| Page 32 | “BM” Safety infra-red beams function. |
| Page 33 | “BT” Button triggers - Simplexmode. |
| Page 34 | “BT” Button triggers - Simplex auto-close mode. |
| Page 35 | “BT” Button triggers - Complex auto-close mode. |
| Page 36 | “OPEN” Open only triggers. |
| Page 37 | “E-STOP” Emergency stop triggers. |
| Page 38 | Auxiliary relay modes - Strike lock mode. |
| Page 39 | Auxiliary relay modes - Magnetic lock mode. |
| Page 40 | Auxiliary relay modes - Courtesy light mode. |
| Page 41 | Auxiliary relay modes - Receiver relay mode. |
| Page 42 | Auxiliary relay modes - Traffic light mode. |
| Page 43 | Holiday lock-out mode. |
| Page 44 | Auto-close override/party mode. |
| Page 45 | Tamper alarms. |
| Troubleshooting. | |
| Page 48 | Status LED, buzzer and diagnostics menu definitions. |
| Page 50 | Troubleshooting guide and display definitions. |
| Page 53 | Warranty. |

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. A copy of this document also appears in the user instructions. Those 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:

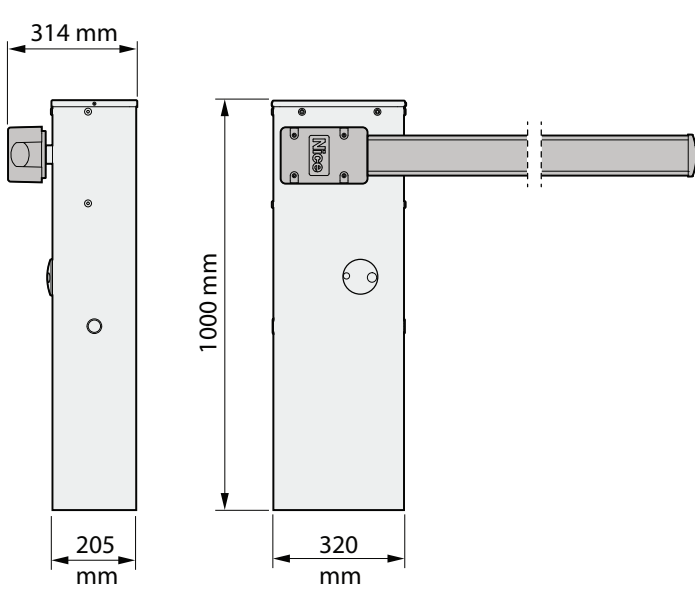
- Is proficient in the use of the manual emergency release mechanism.
- Is issued with the documentation accompanying this product.
- Understands that the barrier or door may not be operated out of clear sight.
- Ensures that children are kept clear of the barrier or door area at all times, and that 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.

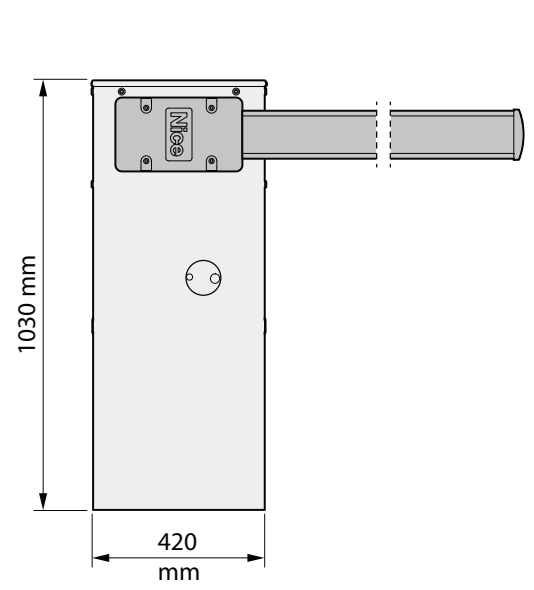
| TECHNICAL SPECIFICATIONS | |
|--|---|
| Technical Data | WIDE M and WIDE L |
| Primary power supply. | 220 – 240Vac @ 50Hz – 60Hz. |
| Peak power consumption. | 240W |
| Electrical class. | Class 1.  |
| Motor voltage. | 24Vdc. |
| Motor current. | Current limited to 10A. |
| Built in battery charger. | Multiple stage auto-calibrating (Peak - 500mA) |
| Number of operations, within 24hrs of power failure, on battery reserve. (Battery health and charge level at time of power failure dependent) | 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. |
| Maximum operations per day. | 3000 |
| Duty cycle with mains present. Boom pole open/close speed selection dependent. | 98% |
| Operating speed. | Wide M = 90°/3,5s. Wide L = 90°/5s. |
| Torque. | Wide M = 140Nm. Wide L = 200Nm. |
| Operating temperature range. | -10 to 50° C (14F to 122F) |
| Anti-crushing safety sensing. | Yes – Electronic load profiling. |
| Auxiliary supply output. | 12Vdc @ 400mA. |
| Receiver format. | ET BLU MIX © backward compatible with ET BLUE. (Rolling code) |
| Receiver frequency. | 433.92MHz. |
| Receiver channels. | 4CH (BT, Open only, Aux relay, Holiday lock-out) |
| Receiver memory capacity. | 1023 users. |
| All users can be allowed control of all channels. | Yes. |
| Ingress protection. | IP44 |
| Physical dimensions. | See next page. |

Dimensions.

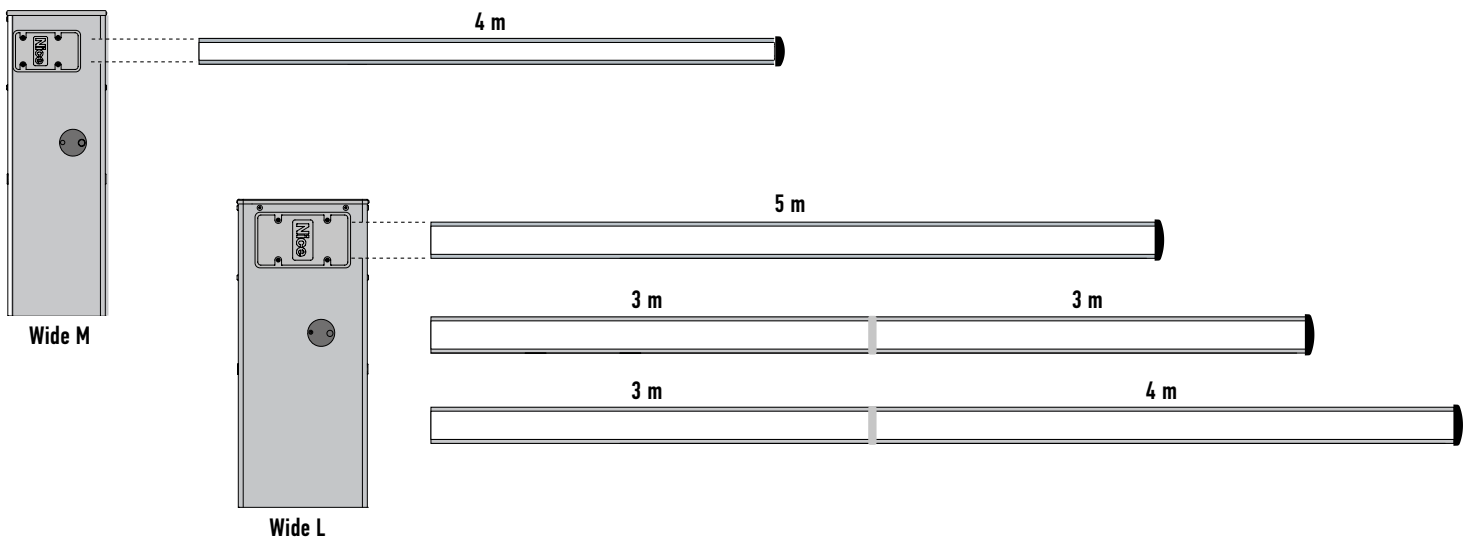
WIDE M



WIDE L



Standard Boom pole kits.

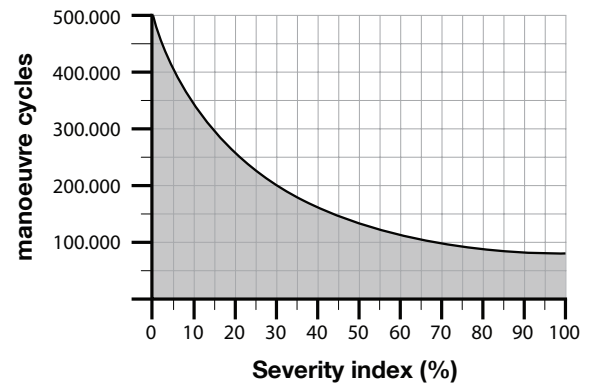


| Pole Kit | XBA19 | XBA15 | XBA5 | XBA9 | XBA13 |
|-----------|--|---|---|---|--|
| | White finish, aluminium boom, with reflective strips, 45x58x4000mm | White finish, aluminium boom with reflective strips, 69x92x3150mm | White finish, aluminium boom with reflective strips, 69x92x5150mm | Galvanised steel extension coupling/joint | Red rubber impact protection strips 1m lengths |
| Wide M 4m | 1 pc | | | | 8 lengths |
| Wide L 5m | | | 1 pc | | 10 lengths |
| Wide L 6m | | 2 pcs | | 1 pc | 12 lengths |
| Wide L 7m | | 1 pc | 1 pc (trim to 4000mm) | 1 pc | 14 lengths |

Major service interval guide.

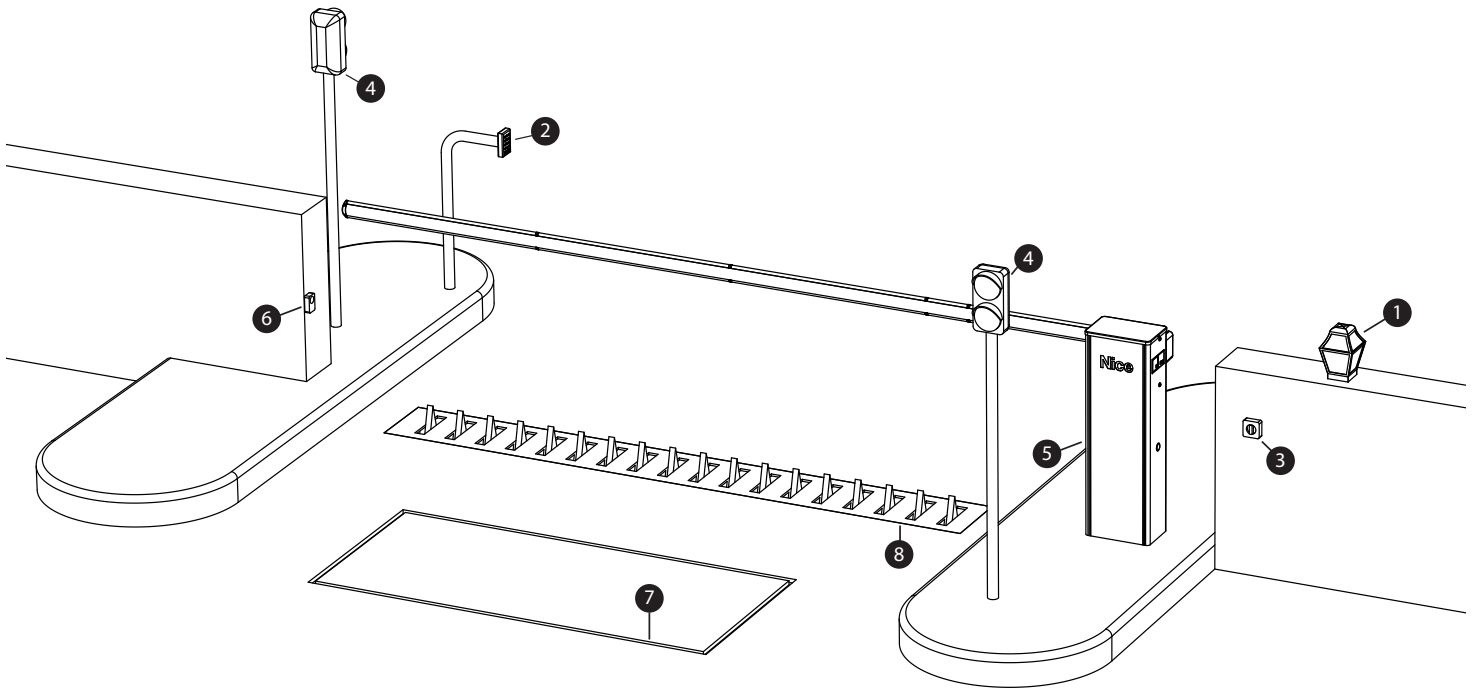
| Work impact considerations | Severity index | |
|--|----------------|--------|
| | Wide M | Wide L |
| Jack-knife boom pole. | 15% | N/A |
| High dust and sand environment. | 10% | 10% |
| High salinity environment. | 10% | 10% |
| Aluminium fence installed. | 5% | 5% |
| Mobile pole support installed. | 15% | 15% |
| Ambient temperature above 40°C or below 0°C. | 5% | 5% |
| Operation regularly interrupted by safety beam circuit trigger. | 15% | 15% |
| Operation regularly interrupted by the Emergency Stop circuit trigger. | 15% | 15% |
| Speed set to above 50%. | 15% | 15% |
| Safety overload force level set to above 50%. | 10% | 10% |

Using the above table, total up the applicable work impact considerations to calculate the site's severity index. Apply the totalled up severity index % to the graph on the right to estimate the total expected number of operations before first major service.



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.



| | | | |
|----|--|----|---|
| 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. | Intercom barrier station (check with intercom supplier for cable specifications) | 6. | Infra-red safety beam TX. 2 core 0,5mm stranded back to barrier housing. |
| 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 automated spikes 2 x 2,5mm and 3 x 0,5mm stranded flexible stranded cable back to barrier housing. |

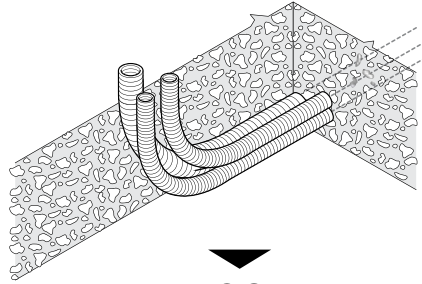
Installing the cabinet.

01.

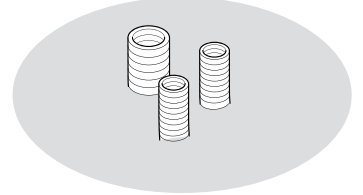
Establish where the traffic barrier cabinet mounting position needs to be.

If an concrete plinth already exists, skip to step 06.

If no concrete plinth is in place, continue on to step 02.



02

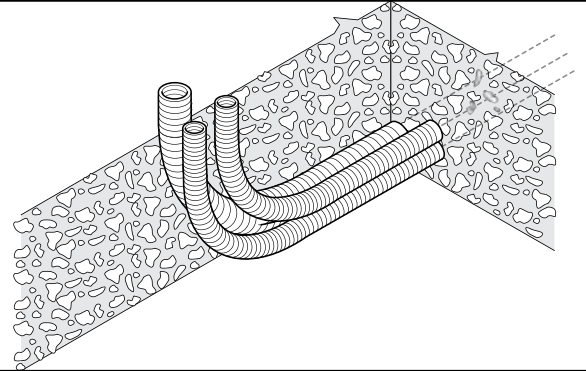


06

02.

Begin by digging a hole for the foundation plinth to be cast in. In places where water can possibly dam up and collect around the base, you will want to use shutter boarding to generate a raised plinth.

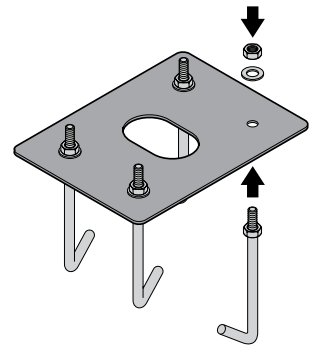
Once the hole has been dug, prepare your cabling conduits. Ref: Cable requirements on previous page.



03.

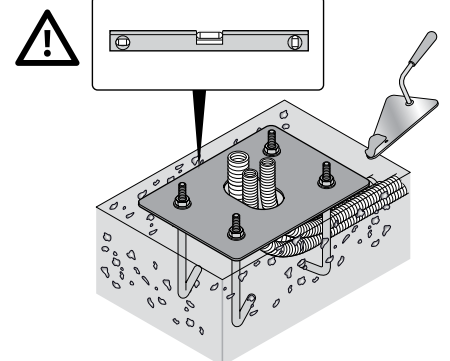
Fasten the 4 J-bolt anchors onto the base plate with one nut above and one nut below the base plate.

NB! the nut below the base plate must be threaded all the way down to the end of the thread on each bolt.



04.

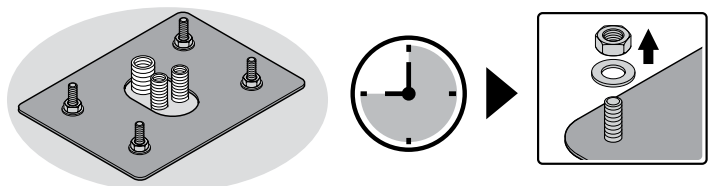
After pouring the concrete into the prepared hole, press the base plate down onto the concrete and ensure the base plate is horizontally level on top of the concrete.



05.

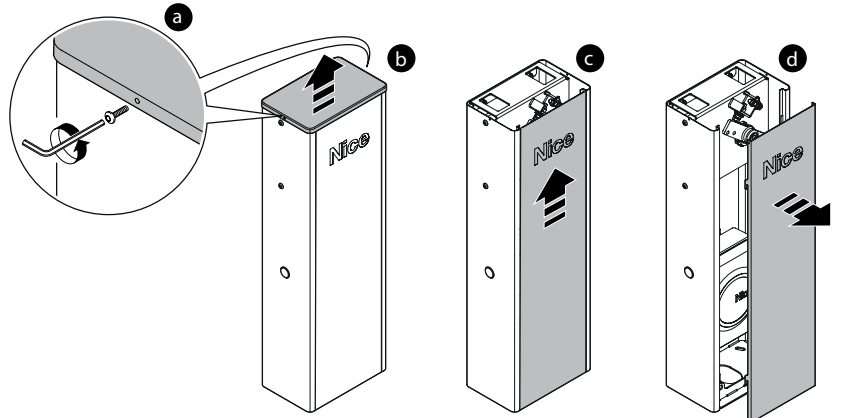
Allow sufficient time for the concrete to set and cure before working with the mounting plinth further. Typically this takes about 2 weeks.

After the concrete has set and cured sufficiently, remove the 4 upper nuts from the now secured bolts.



06.

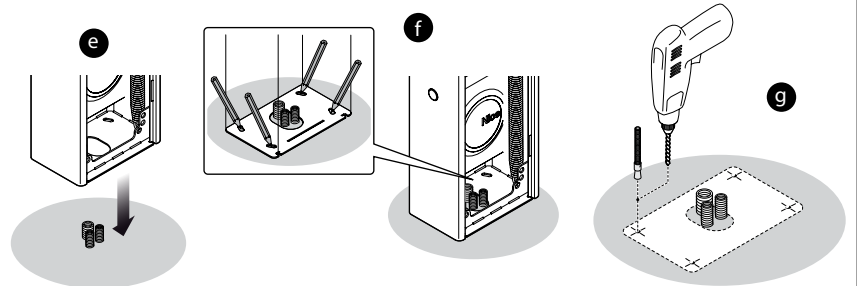
Access the cabinet by removing the lid screws (a) and then the lid (b).
With the lid removed, slide the cabinet access panel up (c) and then pull it away from the cabinet (d)



07.

In the case of a previously prepared plinth, where the anchoring bolts were not cast into the concrete, do the following:

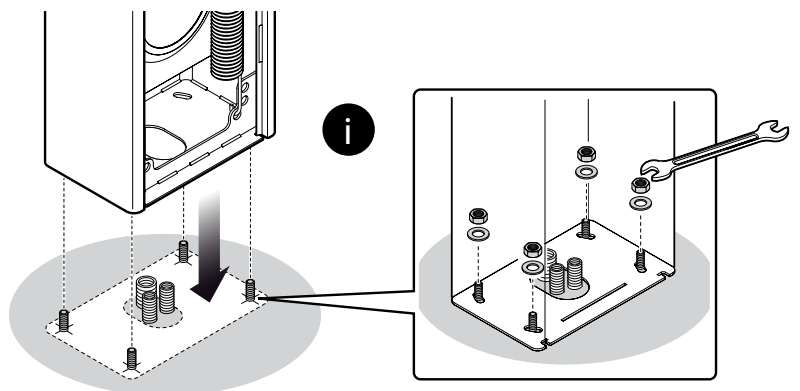
Position the cabinet in the required positions. (e)
Mark out the 4 mounting points. (f)
Remove the cabinet and drill the correct size holes for your expansion anchors (Not supplied) where you have marked the 4 mounting points. (g)



08.

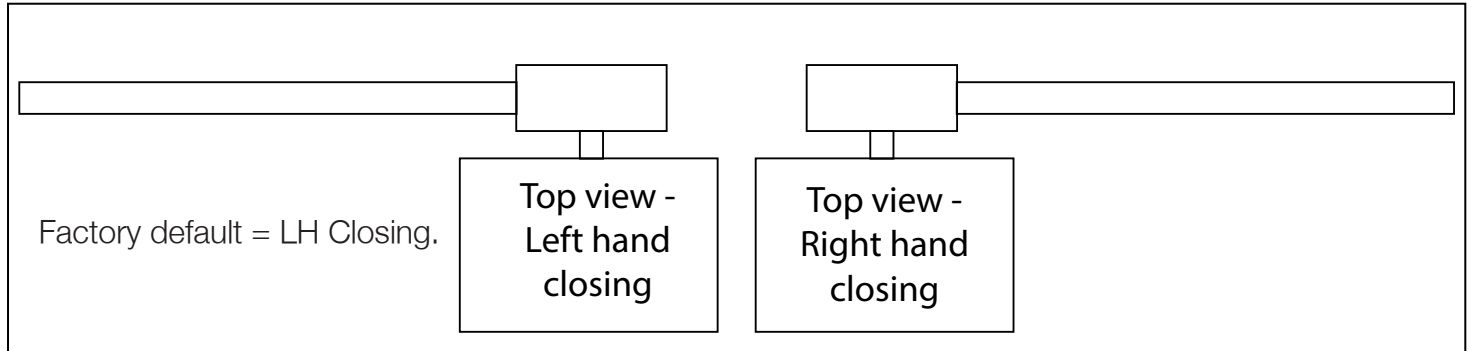
Place the cabinet onto the anchor bolts and fasten firmly in place. (i)

NB! Minor adjustments can be made to the alignment due to the slotted mounting holes. Once the boom pole is installed, alignment may be necessary.



Installing the boom pole.

Before installing the pole mount, double check whether the application requires a left hand or right hand closing barrier.



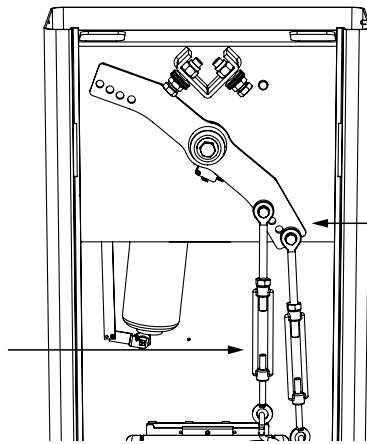
If the site application requires a left hand closing configuration, complete the following 3 steps:

| | |
|---|---|
| <p>1. Install mounting kit pins as shown here.</p> <p>Horizontal pin installed nearest to cabinet</p> <p>Vertical pin installed furthest from cabinet</p> | <p>2. Install the mounting clamp base in the open orientation as shown here.</p> <p>Opening for boom pole at top.</p> <p>3. Install the boom pole and top half of the mounting clamp. This should be done by two people for safety.</p> |
|---|---|

If the site application requires a right hand configuration, complete the following 3 steps:

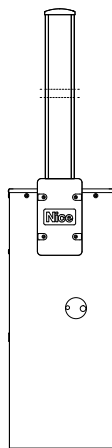
| | |
|---|--|
| <p>1. Install mounting kit pins as shown here.</p> <p>Vertical pin installed nearest to cabinet</p> <p>Horizontal pin installed furthest from cabinet</p> | <p>2. Install the mounting clamp base in the closed orientation as shown here.</p> <p>Opening for boom pole on left.</p> <p>3. Install the boom pole and top half of the mounting clamp. This should be done by two people for safety.</p> |
|---|--|

4. Remove all tension from the springs by turning the turnbuckles anti-clockwise

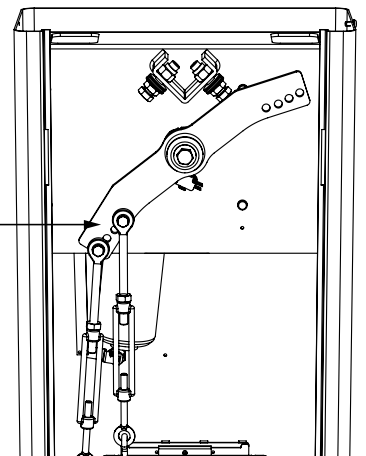


5. Remove the tie-rod ends from the right hand side of the power arm.

6. Move the boom pole into the vertical open position. Lock the gearbox in this position.

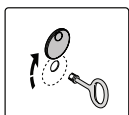


7. Install the springs on the left hand side of the power arm.



Balancing the boom pole load.

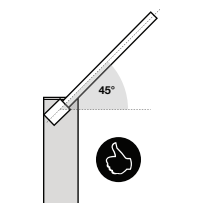
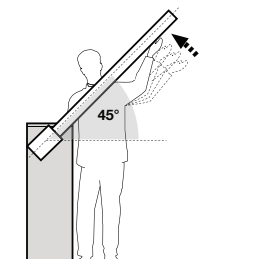
- Unlock the gearbox.
- Move the boom pole to 45°.
- Leave the boom pole to rest on the spring tension. If the boom poles remains steady without rising or falling, move on to the next section.
- Adjust the spring tension if the boom pole rises or falls.
- Test the boom pole at 45° again and repeat from C.



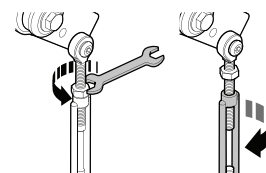
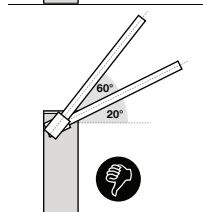
A



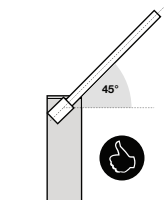
B



C

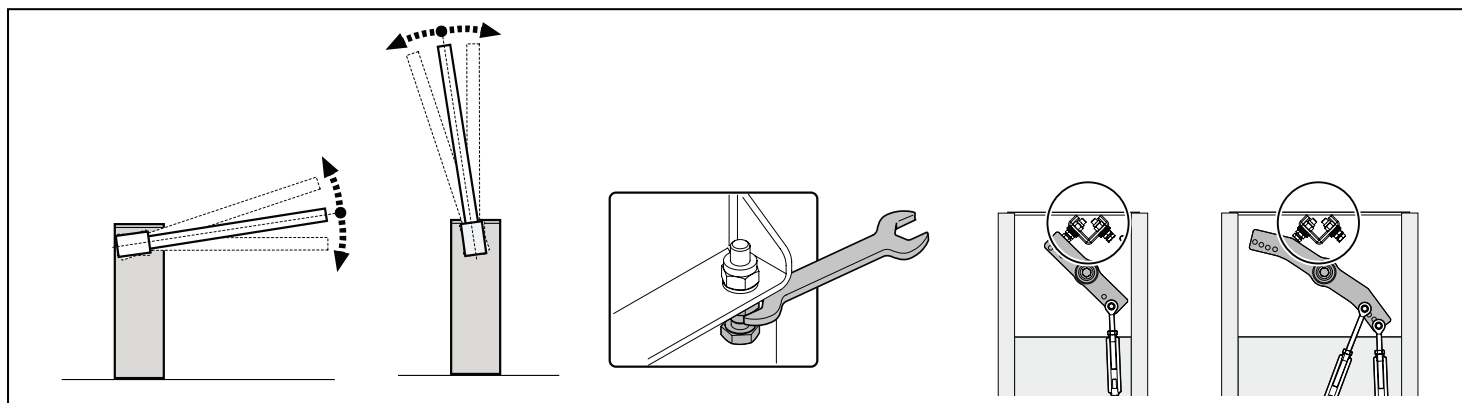


D



E

Adjusting the end stops.



Electrical and electronic installation and setup.

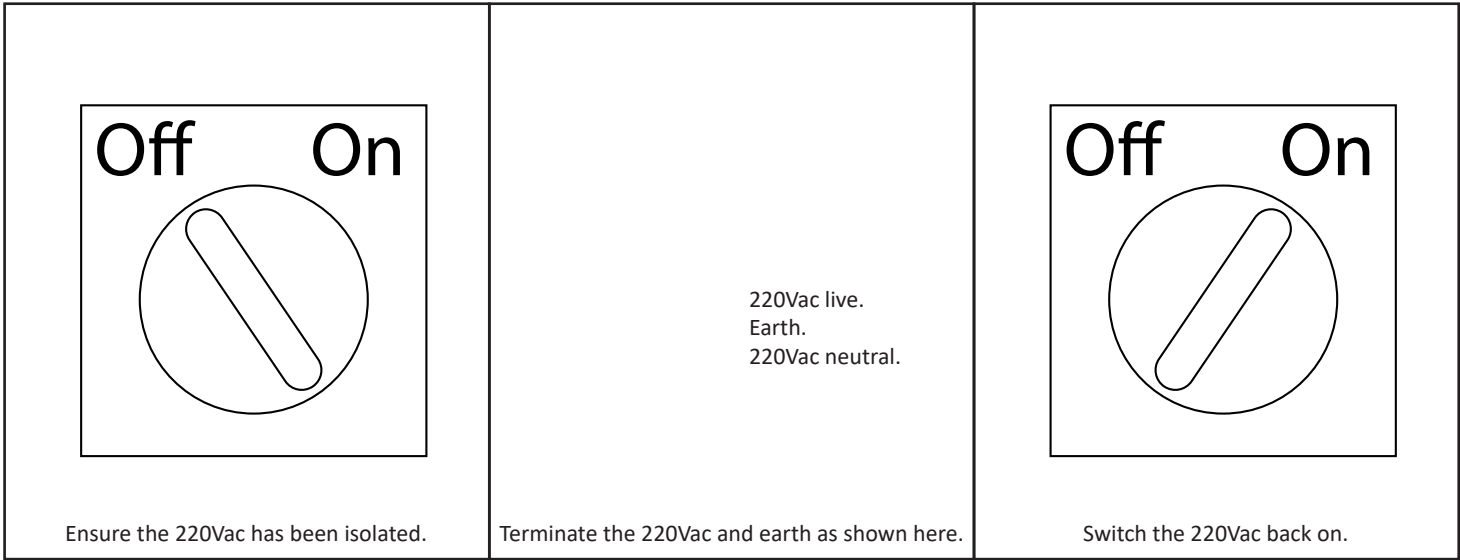
As a motorised operator vibrates when in use, it is strongly recommended that only multiple strand flexible cables be used. Before closing the unit, always remember to double check that all connections are securely made, that there are no stray strands flaring out that can short circuit against other 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.

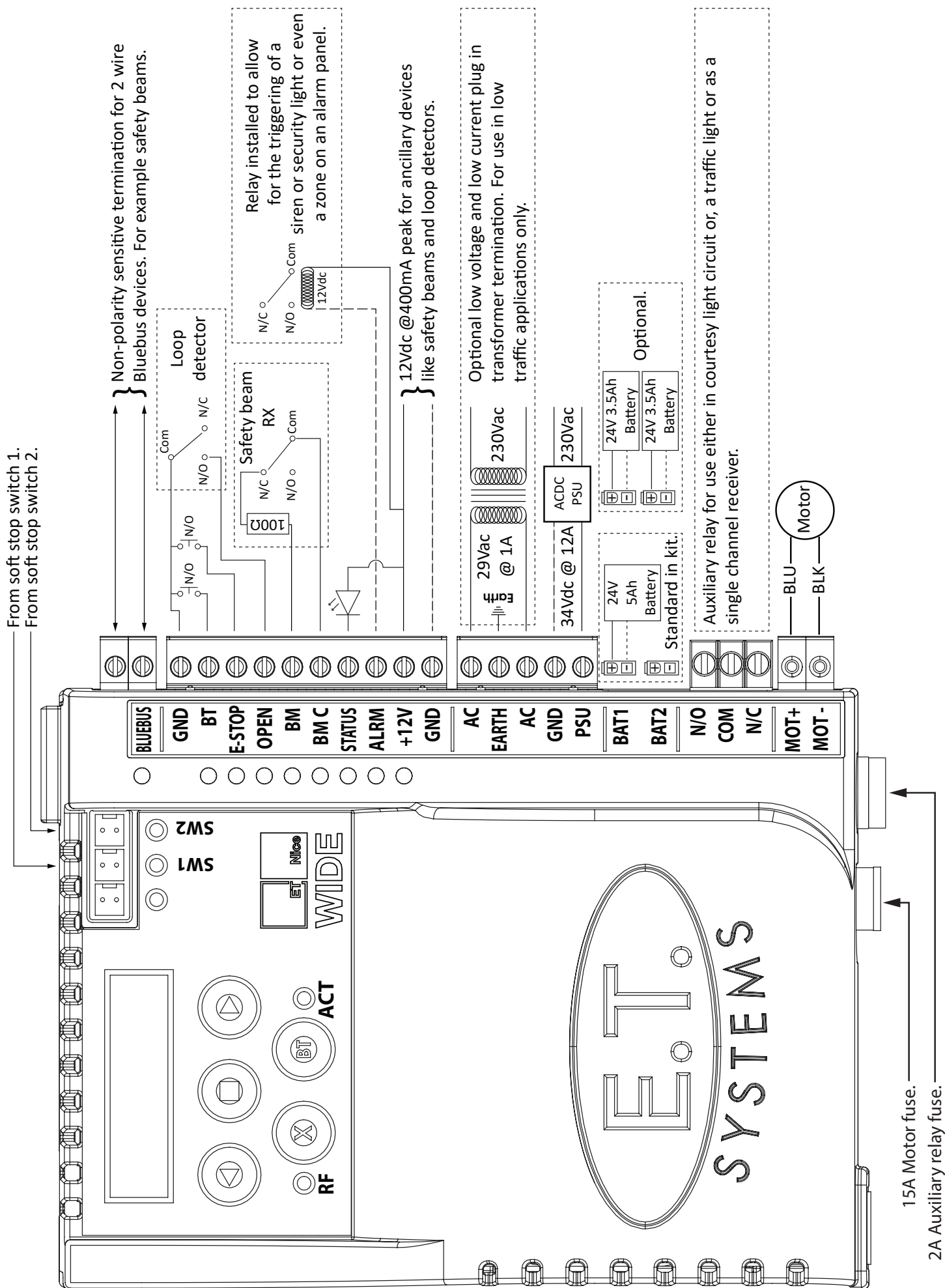
Terminating the AC voltage:

The ACDC power supply requires 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 for 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.

The following shows the wiring of the 220Vac and how to access the 2A fast blow 20mm x 5mm fuse located within the power supply module.

Connecting the 220Vac supply:



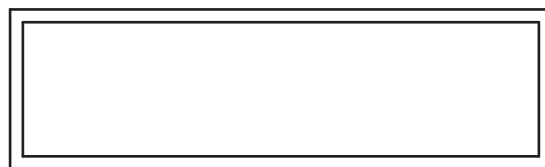


15A Motor fuse.

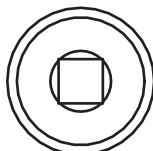
2A Auxiliary relay fuse.

Using the control card display and dashboard.

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.



Navigate backward in menus, decrease values, indicate lefthand closing barrier in runtime setup function or enter diagnostics menu while in standby.



Navigate forward in menus, increase values, indicate righthand closing barrier in runtime setup function or enter diagnostics menu while in standby.

Radio activity indicator.



RF



ACT

Processor activity indicator.

Exit menu levels without saving.

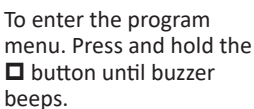




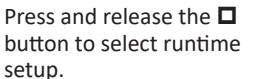





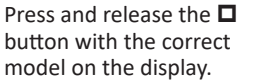




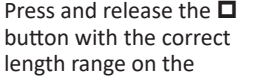




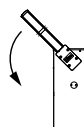

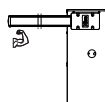

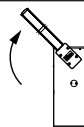



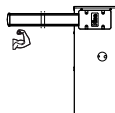



Enter programming, advance to next level of option on display, save value on display.




















Test BT mode when in standby or exit all the way back to standby without saving when in programming.

















Control card programming and setup.



























Programming menu quick reference guide:













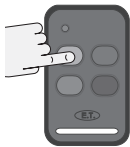






1. Runtime setup. - Page 18.
2. Collision force sensing. Safety level setup. - Page 19.
3. Safety beam setup. - Page 19.
4. BT triggers operating mode selection and setup. - Page 20.
5. Receiver setup.
 - a. Learn remotes. - Pages 22, 23 and 24.
 - b. Erase remotes. - Pages 25 and 26.
 - c. Diagnose 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.













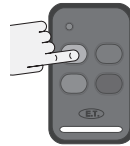






| Runtime Setup | | Setting up the profile and runtime. (Mandatory) | | | |
|---|---|---|---|---|---|
| From Standby status | | - Standard mode - - Standby | Before continuing with the runtime setup ensure the soft stop switches are activating momentarily before the physical end stop is reached. This 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 < Wide M > |  x1 | |
| Scroll < or > to select the matching model. |   | Display scrolls through options. | Set BoomType < Wide L > |  x1 | |
| Press and release the  button with the correct model on the display. |  | Display confirms the selection is saved. | Type Setting Wide L 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 | | |

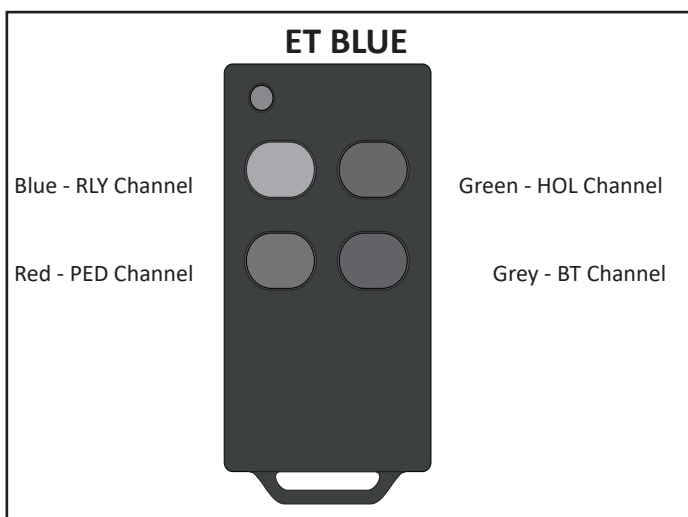
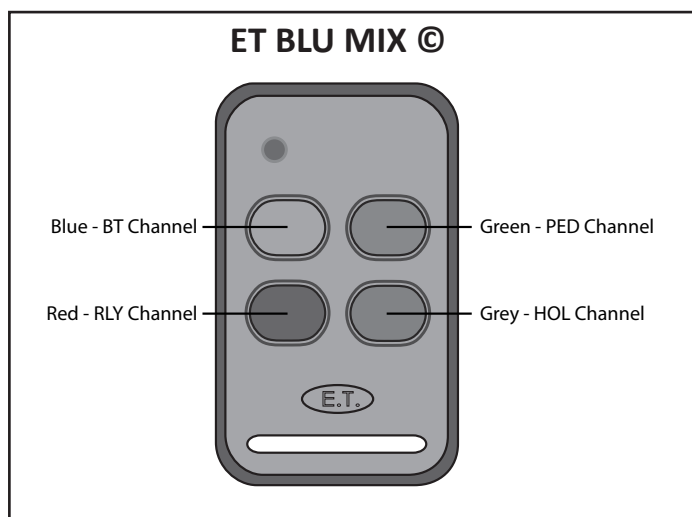
| Selecting a safety level. | | | | Overload Setting | |
|--|--|--|--|--|--|
| From Standby status | | - “Selected” mode - - Standby | This adjusts the force level, over and above the nominal barrier resistance, needed to trigger the safety overload routines. Level 1 being the most sensitive and 8 being 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 |


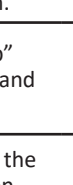

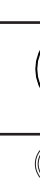







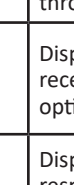
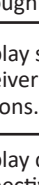

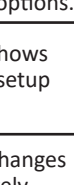

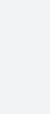





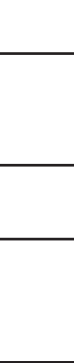
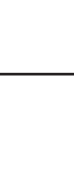
| BT Mode Setting | | Selecting a BT operating mode and adjusting the BT auto-close time. | | | |
|--|---|---|---|--|---|
| From Standby status | | - "Selected" mode - - Standby | The factory default is Simplex mode. The factory default auto-close time is 20 seconds. The timer range is 1 – 254 seconds. 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 | | | |





















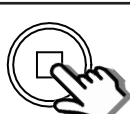










| Receiver programming and setup. Setting up a new user: - Quick learn method. (Corresponding 4 function learn option) | | | | | Receiver Setup |
|---|---|---|--|--|------------------------------|
| From Standby status | | - "Selected" mode - - Standby | The barrier can be in any position when performing 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 |













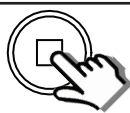

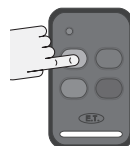


























All buttons should be set to either ET BLUE format or ET BLU MIX © format for this to work as shown here.

| 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. |