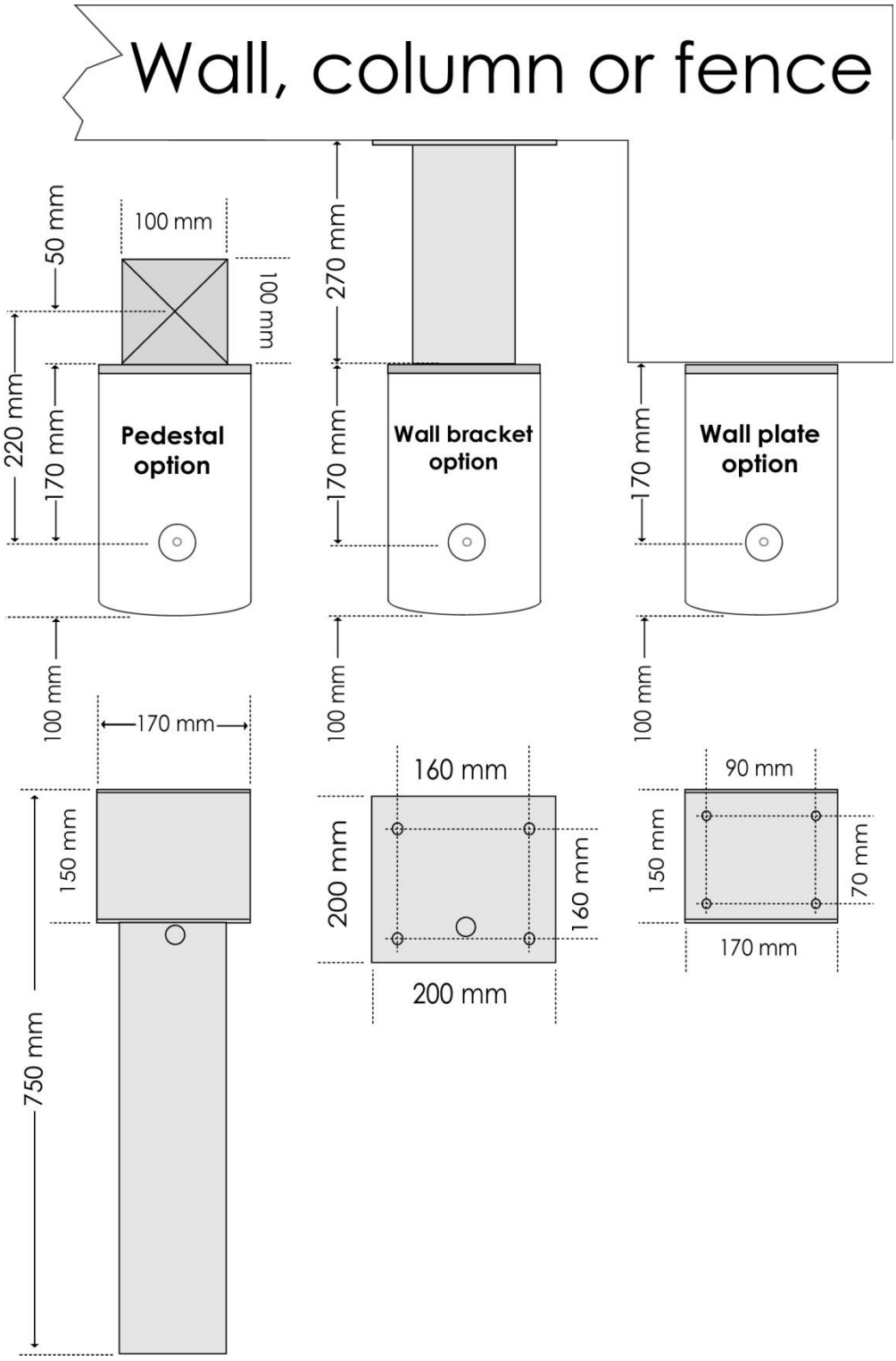
Installer Instructions

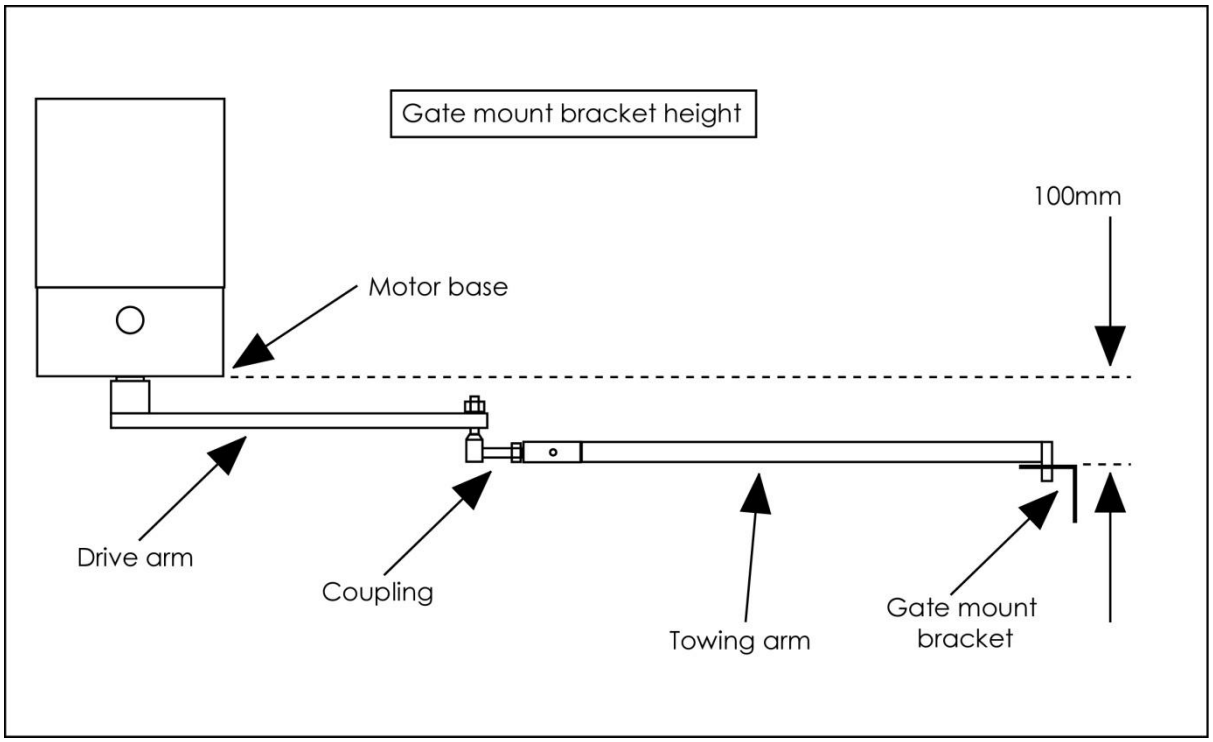
WARNING TO THE INSTALLER. GENERAL SAFETY OBLIGATIONS.

- Caution! It is important for personal safety to follow all the instructions carefully. Incorrect installation or misuse may cause serious personal harm.
- Keep the instructions in a safe place for future reference.
- This product was designed and manufactured strictly for the use indicated in this documentation. Any other use not expressly indicated in this documentation, may damage the product and/or be a source of danger.
- We accept no responsibility due to improper use of this product.
- Care must be taken not to install this product in an unsafe environment. I.e. near inflammable gases and or fumes.
- We will not accept responsibility if the principles of good workmanship are disregarded by the installer. The construction of the gate must be sound and automatable. It is the responsibility of the installer to ensure that all mountings to the gate are sufficient to withstand the necessary forces in cases of overload.
- Before carrying out any work on the product, ensure that the electrical supply is switched off.
- It is highly recommended that a set of safety infra-red beams be used in conjunction with this product.
- We accept no responsibility regarding safety and correct operation of the automation if other manufacturer's equipment is added to this product.
- Do not make any modifications or alterations to this product.
- It is the responsibility of the installer/ service provider to completely instruct and demonstrate the proper use of this product, especially the emergency override, to the end user. It is also the responsibility of the installer/ service provider to issue all end user documentation, which accompanies this product, to the end user.
- Ensure that other persons, especially children are clear of the gate and opener before and during operation.
- Keep remote transmitters away from children to prevent accidental activation of the system.
- The end user should refrain from attempting to make any repairs or adjustments to the system and should contact professional qualified assistance timorously.
- Anything other than expressly provided for in these instructions is not permitted.
- The electrical supply to this product must comply with the local electrical code of practice and any electrical work must be carried out by a qualified electrician.
- Over and above the recommendation to use safety infra-red beams with this product it is mandatory to ensure sufficient beam sets are installed and are in proper working condition when using the automatic closing feature.

Technical specifications	
POWER SUPPLY AT GATE	220V AC 29V AC low voltage option available at reduced drive arm speed.
POWER CONSUMPTION	< 30W (250Vac)
MOTOR VOLTAGE	24V DC
MAX. DRIVE ARM SPEED	180 degrees in ± 15 seconds.
OPERATIONS PER DAY	100
OPERATING TEMPERATURE RANGE	-10 / +50° C
ANTI-CRUSHING SAFETY SENSING	ELECTRONIC
MAXIMUM GATE LEAF LENGTH	2.5 meters
MAXIMUM GATE MASS	200kg
AUXILIARY OUTPUT FOR ANCILLIARIES (Peak)	12V DC at 300mA Automatic overload protection
RATED BATTERY CHARGING VOLTAGE	27.5V DC
BUILT IN RECEIVER FORMAT	Keeloq ® Rolling code
RECEIVER FREQUENCY	433.92MHz

Dimensions

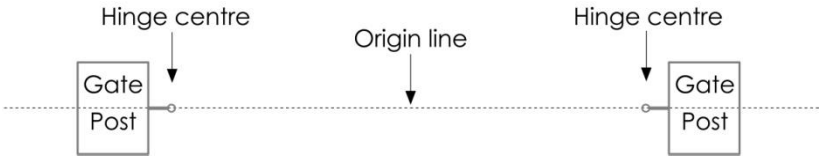
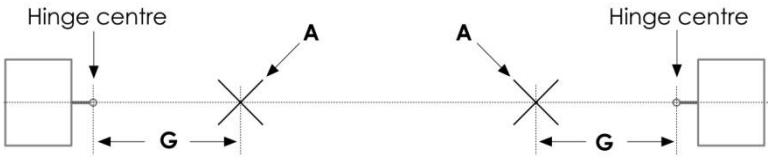

Wall, column or fence
50 mm
100 mm
100 mm
220 mm
170 mm
Pedestal option
100 mm
170 mm
150 mm
750 mm
270 mm
170 mm
Wall bracket option
100 mm
160 mm
200 mm
160 mm
200 mm
170 mm
Wall plate option
100 mm
90 mm
150 mm
70 mm
170 mm

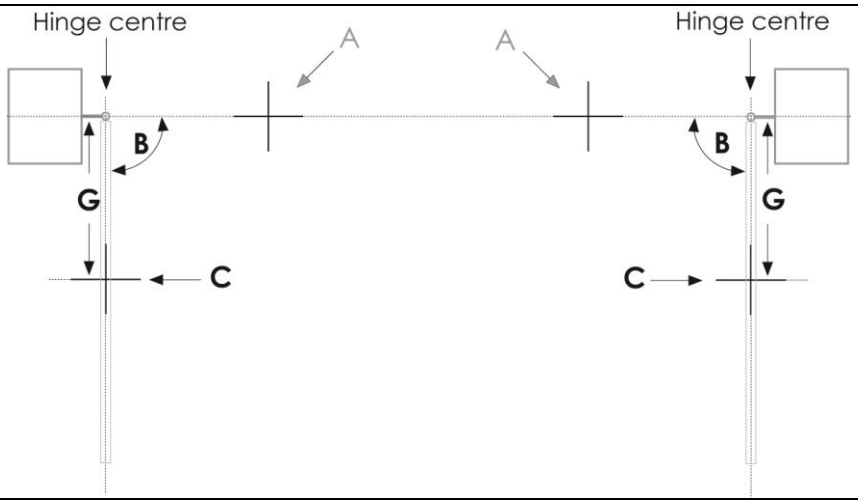
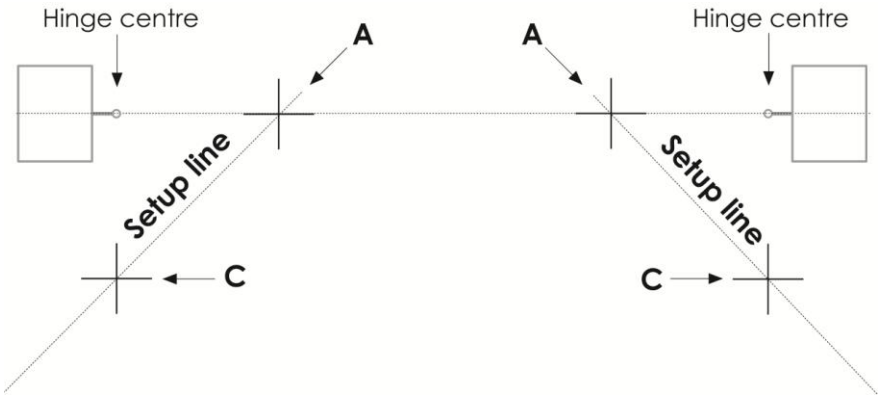
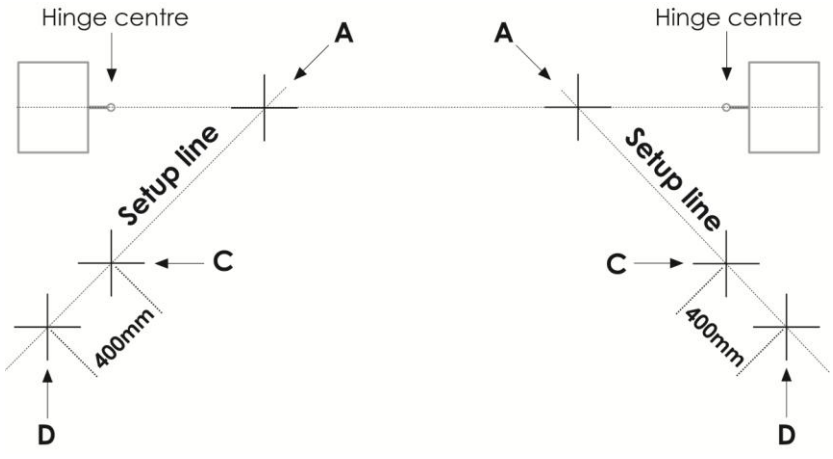

Gate mount bracket height
100mm
Motor base
Drive arm
Coupling
Towing arm
Gate mount bracket

POSITIONING THE MOTORS FOR INWARD SWING.

First find the required gate mount bracket position (G) in the table below. This is determined by the required opening angle.

Gate opening angle in degrees	Measurement **(G)** when using a 400mm drive arm for **INWARD** swing
85	597 mm
90	570 mm
95	546 mm
100	525 mm

Step 1: Begin by shooting a chalk line between your hinge centres of the two gates. In a single swing application this will be your origin line. It can also be referred to as the closed line.	
Step 2: Using the table above measure the required "G" measurement from your hinges along the origin line and mark the ground as point "A". **(Mark your gate at this point as well to make the next step easier)**	

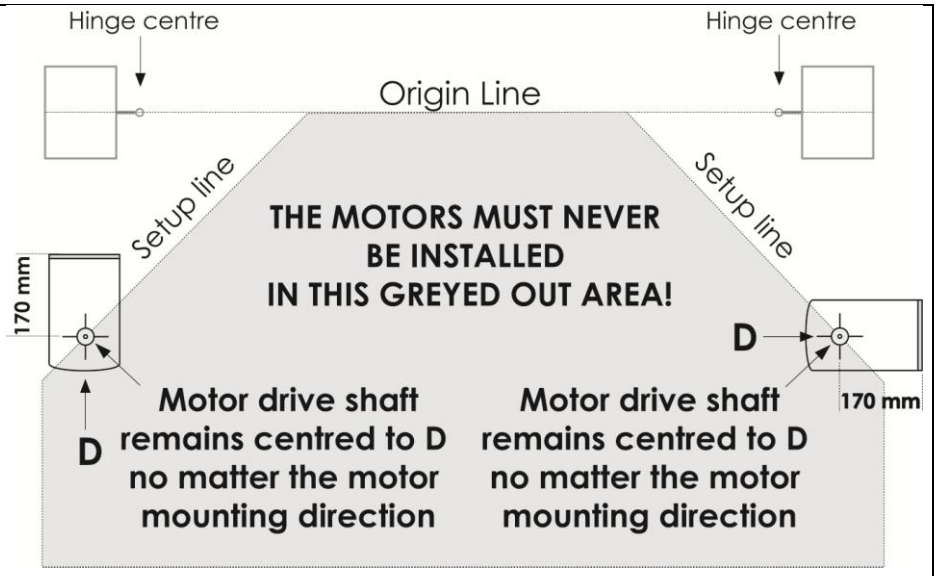
Step 3: Swing the gate to the required opening angle **"B"** **Using the previously marked "G" distance on the gate mark the ground shown here as "C"**	
Step 4: Using a chalk line again, shoot a line joining the **centre of "A" to the centre of "C".** **Extend past "C" by more than 400mm to allow for the next step.** This line is known as your **Setup line.**	
Step 5: Measure **400mm** along the **Setup line** starting at point **"C"** and moving **away from** point **"A"** to find **"D"**	

Step 6:

Position the **motor drive shaft** centred over point **"D"** determined in the last step.

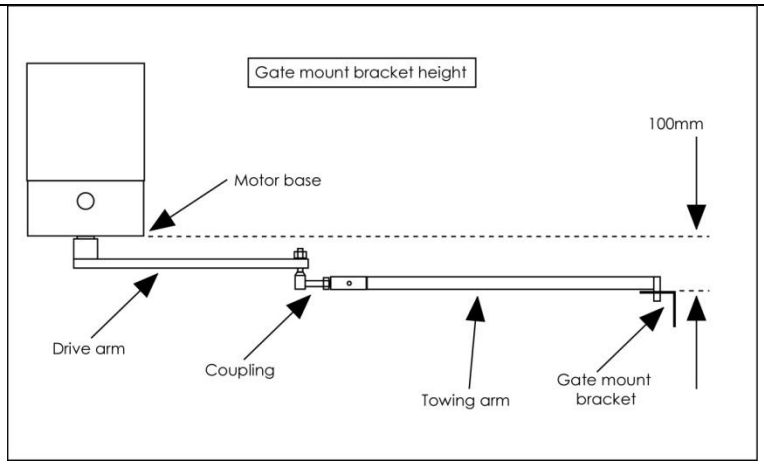
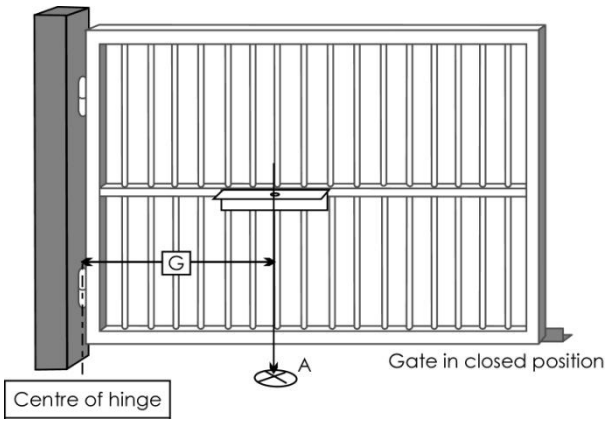
The motors can be installed perpendicular to the origin line or parallel to it as shown here in the diagram.

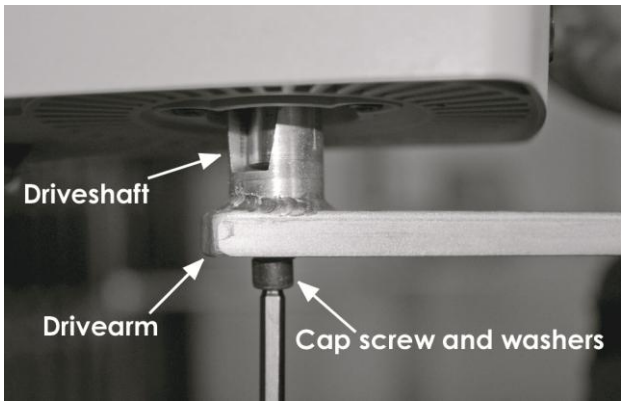
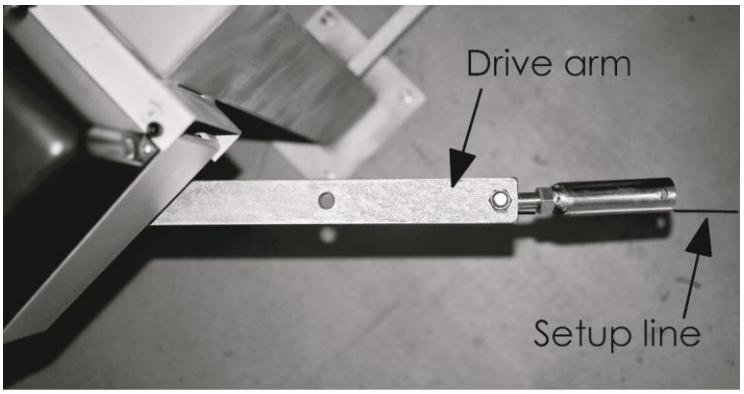
The **motors** must **never** be **installed** anywhere within the **greyed out area here between the setup lines.**

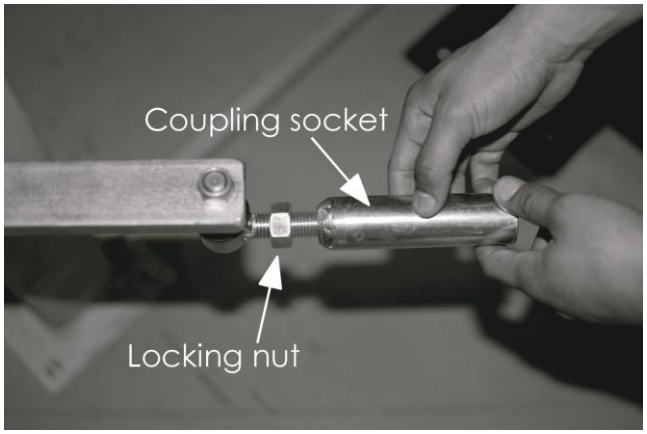


Refer to the dimensions diagram on page 5 for the most convenient mounting method. Pedestal, wall bracket or wall plate.

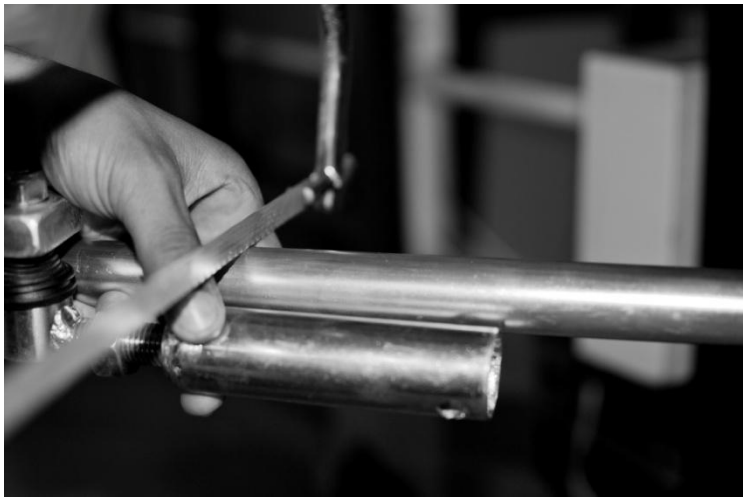
INSTALLING THE GATE MOUNT BRACKET, DRIVE ARM AND TOWING ARMS

Step 7: Ensure the gate mount bracket is low enough below the drive arm not to snarl the towing arm up as the arms pass each other. The required clearance between the base of the motor housing and the top of the gate bracket is 100mm.	
Step 8: Mount the gate mount bracket to the gate so that the **towing arm pin hole** aligns with **"G"** from the hinge. Double check that the gate mount bracket is secured firmly to a point on the gate that is strong enough to maintain even the forces exerted on it that would be typical of the gates being forced or jamming up. Loose or shifted gate mount brackets are one of the most common causes of intermittent operation. **(Step 2 on page 6 refers to "G")**	
Step 9: Activate the manual override on both motors. (Unlock the gearbox)	

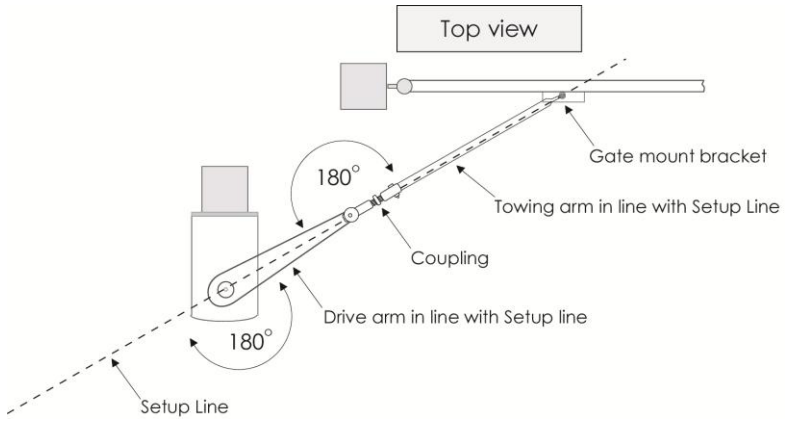
Step 10: Fasten the drive arms to the motors.	
Step 11: Swing the drive arm around so it is in line with the Setup Line.	

Step 12: Loosen the locking nut and turn the coupling socket so that it is halfway along the thread adjustment.	

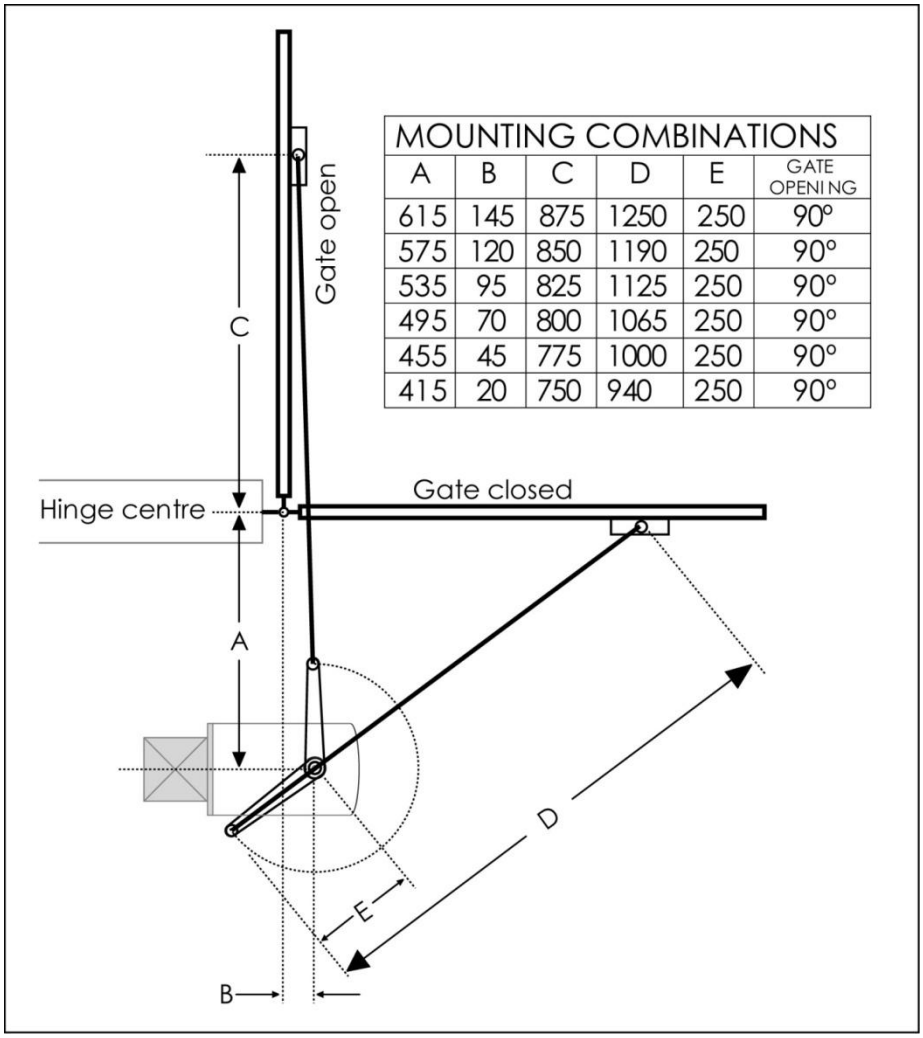
Step 13: Insert towing arm into the gate mount bracket. Use the lock to prevent the arm from coming out of the bracket while you work with it.	

Step 14: With gate; **Closed - Inward swing** **Open – Outward swing** Measure and trim the towing arm so that it fits all the way into the coupling. Insert the cut off towing arm into the socket. The two arms when connected together must be in a straight line. **180º to one another!** Adjusting the length of the towing arm will change the angle between the arms. This can be done by turning the coupling socket along the threaded adjustment. **Fine adjust if necessary.**	

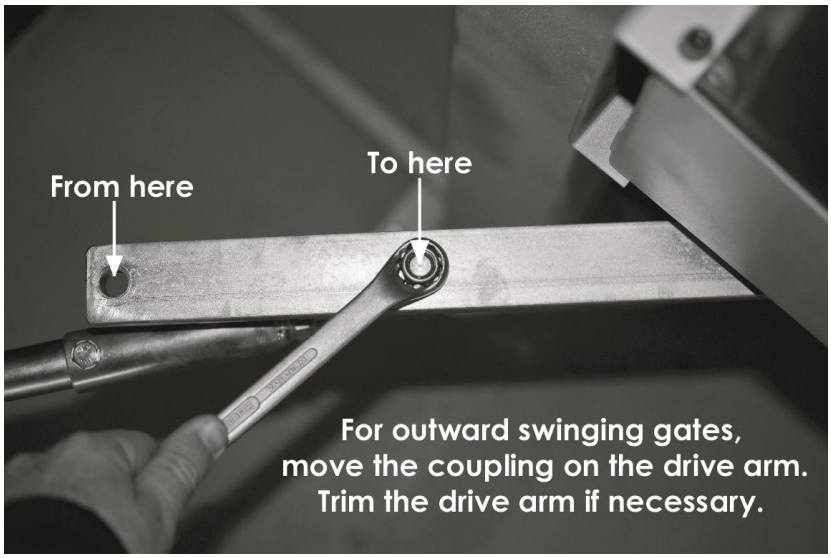
Step 15: When satisfied the two arms are at 180º to one another in the open or closed position as per the type of installation (inward or outward swing) Drill an 8mm hole through the towing arm where it fits into the coupling socket.	

Step 16: Fasten the towing arm to the coupling with the Nylock nut and M8 x 40 bolt supplied.	
When done this is what the arms should look like from above.	

OUTWARD SWING

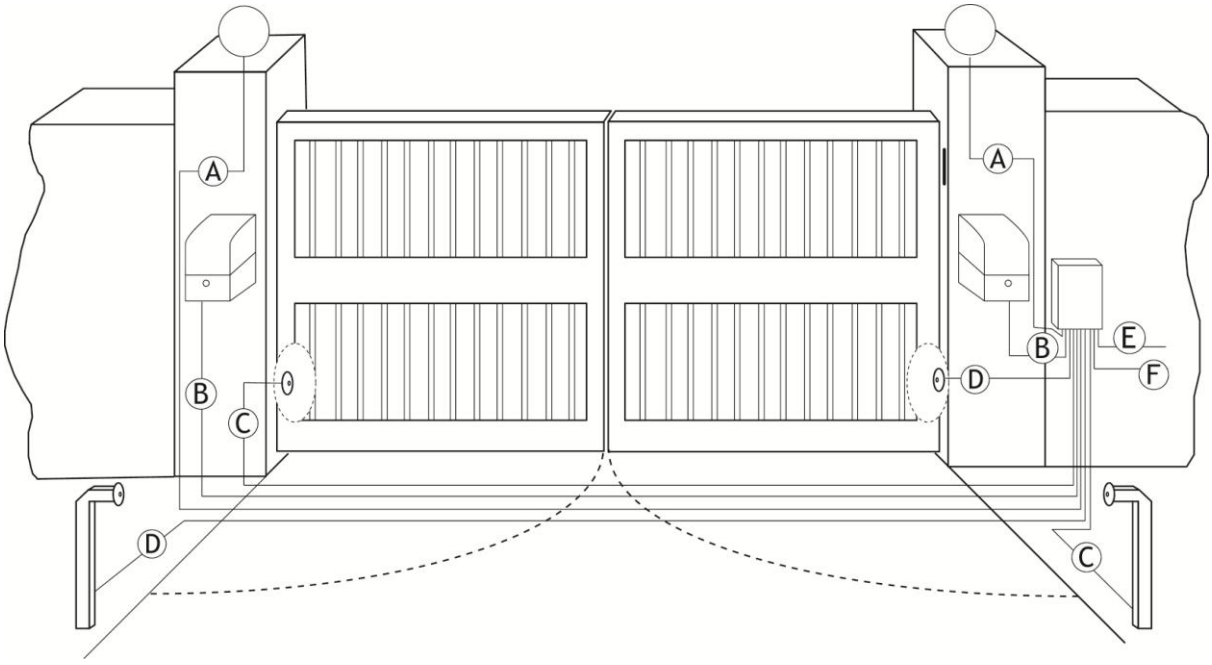


MOUNTING COMBINATIONS					
A	B	C	D	E	GATE OPENING
615	145	875	1250	250	90°
575	120	850	1190	250	90°
535	95	825	1125	250	90°
495	70	800	1065	250	90°
455	45	775	1000	250	90°
415	20	750	940	250	90°

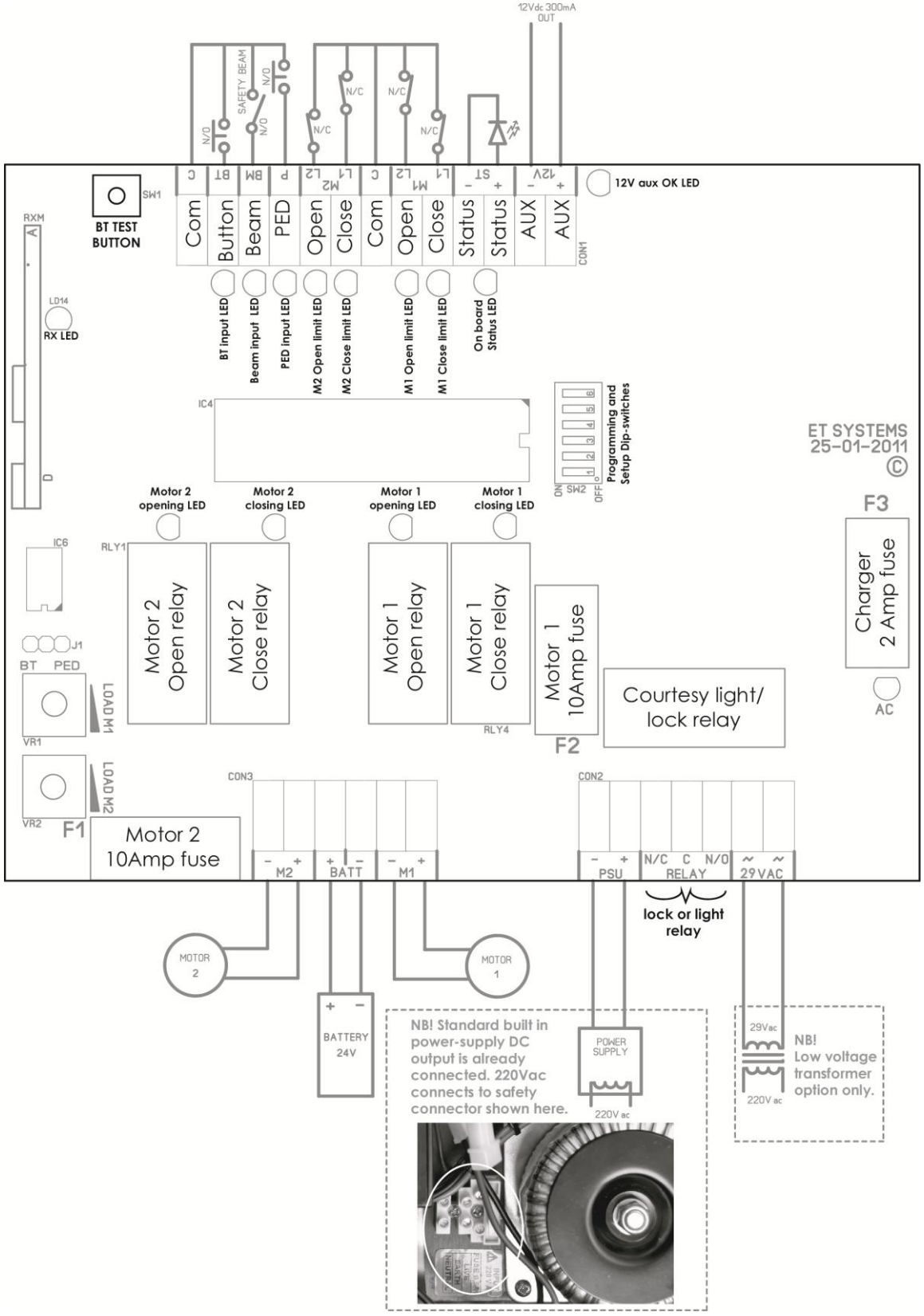


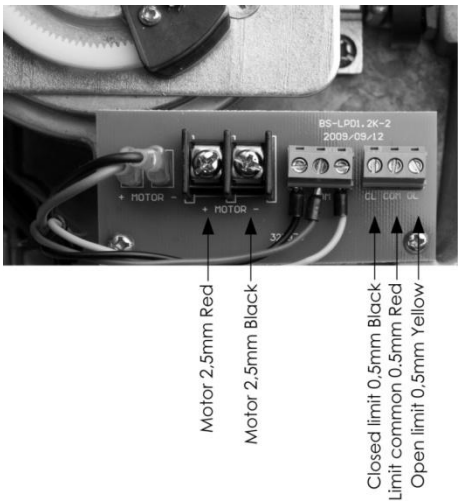
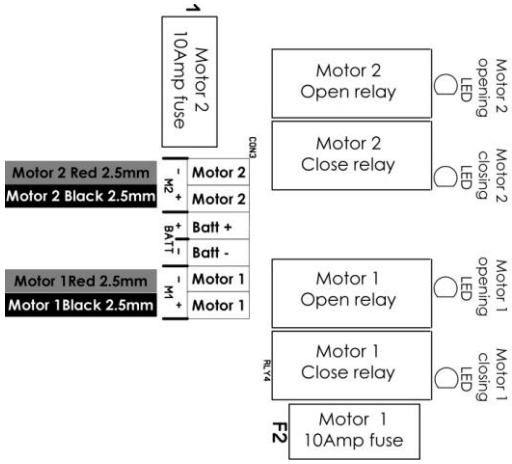
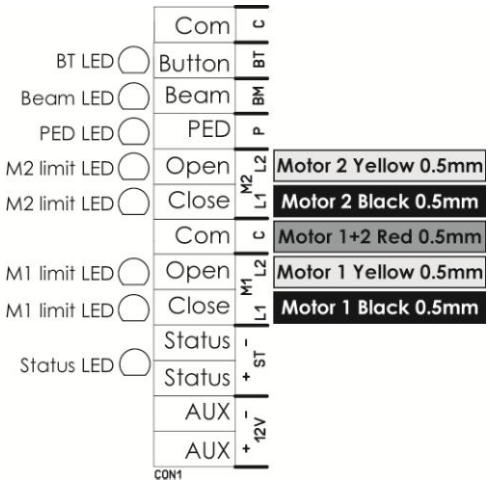
WIRING REQUIREMENTS

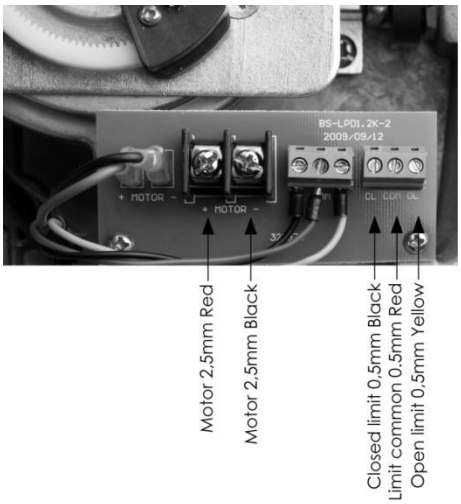
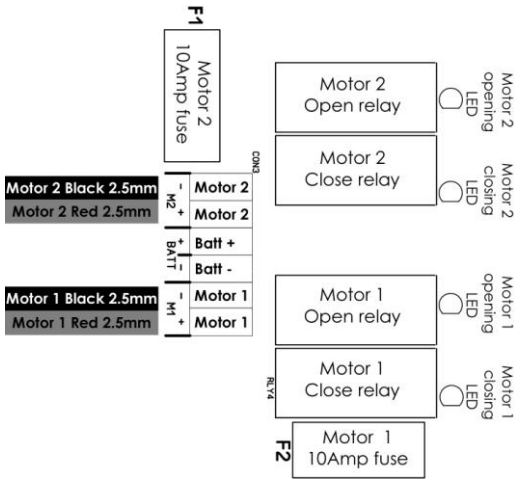
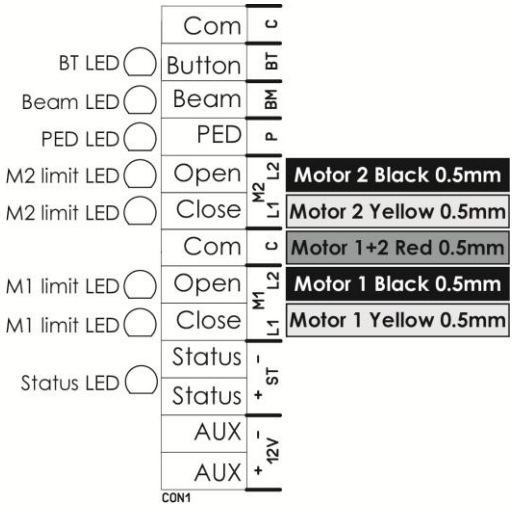
A	Courtesy Light	2 + earth 1mm (3 Amp max load)
B	Motor 1 and 2 wiring	2 x 2.5mm (Motor) and 3 x 0.5mm (Limits)
C	Infra-red safety beams TX	2 x 0.5mm
D	Infra-red safety beams RX	4 x 0.5mm
E	Triggers and status LED to and from house	0.5mm x 2 – LED, 0.5mm x 1 – Common , 0.5mm x 1 – Button trigger, 0.5mm x 1 – Pedestrian trigger.
F	Vac supply from house	2 + earth 2.5mm



CONTROL BOX CONNECTIONS

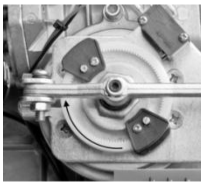
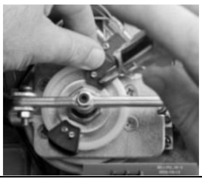


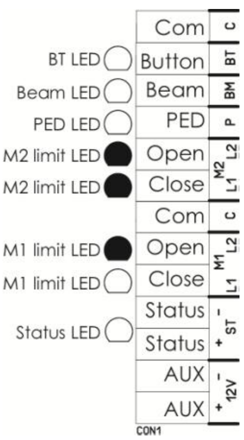
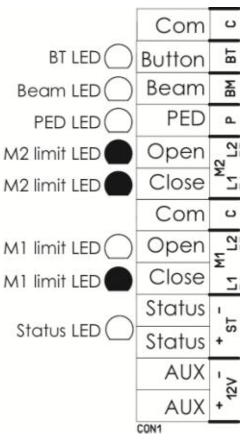
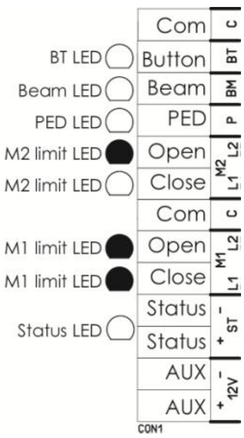
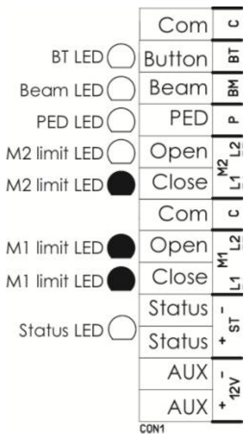
LIMIT SWITCHES AND MOTOR WIRING (INWARD SWING)	
First connect the wiring to each motor as shown here. (The correct 5 core cable can be purchased from your ET supplier separately)	
Connect the motor wires to the control card "con 3" terminal connector.	
Connect the limit wires to the control card "con 1" terminal connector.	

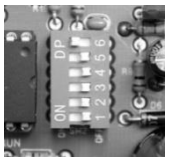
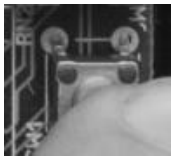
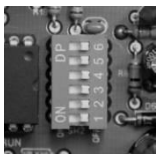
LIMIT SWITCHES AND MOTOR WIRING (OUTWARD SWING)	
First connect the wiring to each motor as shown here. (The correct 5 core cable can be purchased from your ET supplier separately)	
Connect the motor wires to the control card "con 3" terminal connector.	
Connect the limit wires to the control card "con 1" terminal connector.	

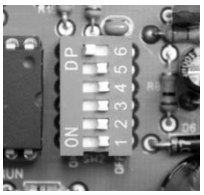
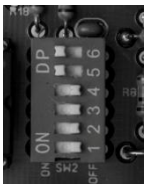
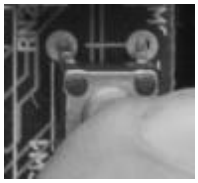
SETTING UP THE LIMIT SWITCHES FOR ENDS OF TRAVEL.

Once the wiring of the motors and the limits are complete the limit switches can be setup. These switches instruct the controller as to when the gates have reached the ends of travel. To prevent possible confusion and damage due to incorrect wiring, make use of the audible limit setup function in programming mode after physically adjusting the limits.

Action		Response
1. Activate the manual override on both motors.	 	It is now possible to swing the gates by hand.
2. Close the gate.		Limit cam wheel rotates with gate
3. Loosen the locking screws on the cams		The cams can now be shifted around the cam wheel.
4. Shift the black cam until it activates the top switch. To move the cam use a flat screw driver in the brass screw head. When done fasten the locking screw.		The L1 limit LED for that motor will extinguish.
Move the gate to the open position and repeat using the yellow cam.		

Motor 1's limit LED indication. Off when activated.		**Motor 2's limit LED indication. Off when activated.**	
Closed limit	**Open limit**	**Closed Limit**	**Open Limit**
			

TESTING THE LIMIT SWITCHES AND LIMIT WIRING This stage is not mandatory. It is rather a tool for you to double check that your limits are wired into the correct inputs on the board and set to the correct positions.		
Action		**Response**
1. Unlock motors and move gates manually to middle of travel.		
2. Enter program mode by switching dip-switch 6 on only.		2 beeps
3. Press and release BT button.		Single beep tone and both motor 1 opening and closing LEDs come on indicating Motor 1inputs are being tested.
4. Move gate 1 by hand to the closed position.	Single beep tone to indicate the correct closed limit has been activated, followed by a continuous tone as long as the switch is activated. Fine tune if necessary.	
5. Move gate 1 by hand to the open position.	Double beep tone to indicate the correct open limit input has been activated, followed by a continuous tone as long as the switch is activated. Fine tune if necessary.	
6. Press and release BT button.		Double beep tone and both motor 2 opening and closing LEDs come on indicating Motor 2 inputs are being tested.
7. Move gate 2 by hand to the closed position.	Single beep tone to indicate the correct closed limit has been activated, followed by a continuous tone as long as the switch is activated. Fine tune if necessary.	
8. Move gate 2 by hand to the open position.	Double beep tone to indicate the correct open limit input has been activated, followed by a continuous tone as long as the switch is activated. Fine tune if necessary.	
Any multiple beeps at any stage indicate faulty wiring or limit switches.		
9. Switch 6 off to exit limit position test mode.		

TESTING THE GATE MOTOR DIRECTION WIRING **GATES MUST CLOSE FIRST!**		
1. Enter program mode by switching dip-switch 6 on only.		2 beeps
2. Switch dip-switch 5 on.		
3. Manually move the gates to middle of travel and re-lock.		
3. Press and hold BT button		Gates must run closed. If the gates begin opening release button to stop running. Then swap motor RED and BLK 2.5mm wires over.

PROGRAMMING OF TIMERS

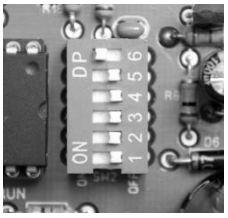
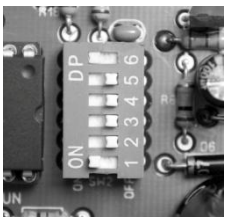
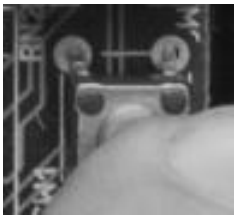
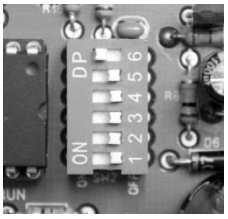
AUTO-CLOSE TIMER:-

(Only use auto-close functions when safety beams have been installed)

(Default = 15sec.)

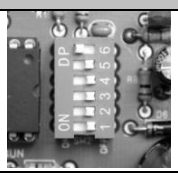
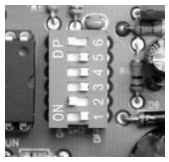
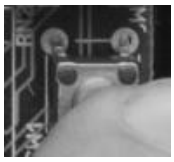
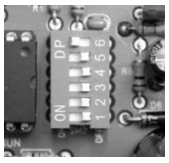
NB! The auto-close mode type must still be selected after all programming is completed.

(See operating mode selection on page 30 and 31)

Action		Response
1. Enter program mode by switching dip-switch 6 on only.		2 beeps
2. Dip-switch 1 on		
3. Press and hold BT button, count beeps for required time.		1 = 1sec. 2 = 2sec. ....cont. 255 = 4 min 25 sec. (Max)
4. Release BT button at required auto-close time		Continuous beep
5. Dip-switch 1 off		Continuous beep stops
To change the time again without leaving programming, repeat from point 2.		
Switch dip-switch 6 off or continue to another programming option.		
NB! This does not activate the Auto-close function. For this see selecting operating modes on page 30 and 31.		

PEDESTRIAN OPENING AND AUTO-CLOSE TIME:- **(Only use auto-close functions when safety beams have been installed)**

(Default = Motor 1 opens fully and 5sec. auto-close time)

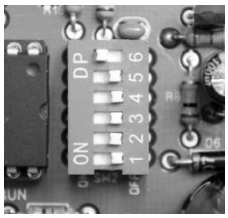
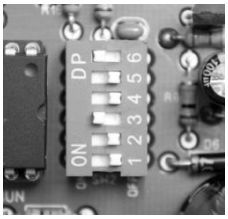
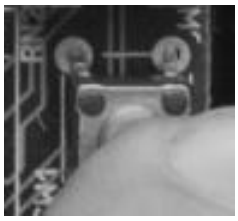
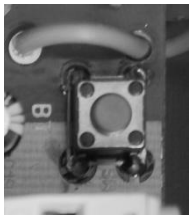
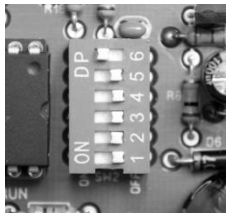
Action		Response
1. Enter program mode by switching dip-switch 6 on only.		2 beeps
2. Dip-switch 2 on		
3. Press and release BT button.		Motor 1 closes if not closed already.
4. From the closed position motor 1 will begin opening.		
5. Press and release the BT button when the required opening distance is reached.		Motor 1 stops opening.
6. Press and hold BT button, count beeps for required auto-close time.		1 = 1sec. 2 = 2sec. ....cont. 255 = 4min 25 sec. (Max)
7. Release BT button at required pedestrian auto-close time		Continuous beep
8. Dip-switch 2 off		Continuous beep stops
To change the settings again without leaving programming, repeat from point 2.		
Switch dip-switch 6 off or continue to another programming option.		

DELAY TIME:- **(Used when gates overlap each other)**

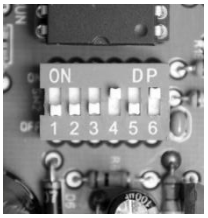
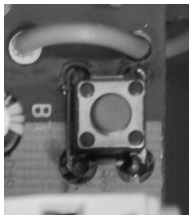
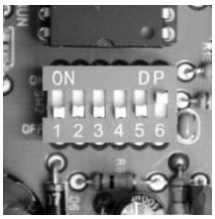
(Default = 3sec.)

NB! The delay between gates must still be selected after all programming is completed.

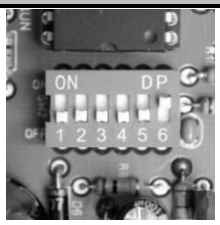
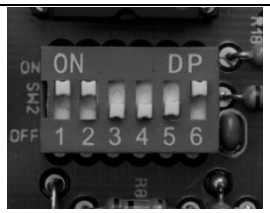
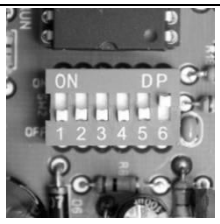
(See operating mode selection on page 31)

Action		Response
1. Enter program mode by switching dip-switch 6 on only.		2 beeps
2. Dip-switch 3 on		
3. Press and hold BT button, count beeps for required time.		1 = 1sec. 2 = 2sec. ....cont. 255 = 4min25 sec. (Max)
4. Release BT button at required delay time		Continuous beep
5. Dip-switch 3 off		Continuous beep stops
To change the time again without leaving programming, repeat from point 2.		
Switch dip-switch 6 off or continue to another programming option.		
NB! This does not activate the delay function. For this see selecting operating modes on page 31		

COURTESY LIGHT ON TIME:-
(Default = 4 minutes.) **See page 32 Lock mode selection.**

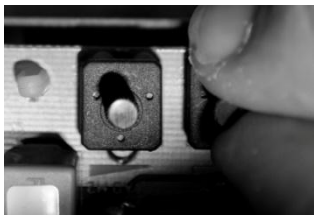
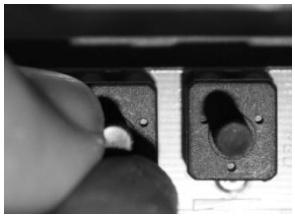
Action		Response
1. Enter program mode by switching dip-switch 6 on only.		2 beeps
2. Dip-switch 4 on		
3. Press and hold BT button, count beeps for required time.		1 = 1 min. 2 = 2 min. ....cont. 255 = 4h25 min. (Max)
4. Release BT button at required courtesy light on time		Continuous beep
5. Dip-switch 4 off		Continuous beep stops
To change the time again without leaving programming, repeat from point 2.		
Switch dip-switch 6 off or continue to another programming option.		

CHANGING SWITCH TYPE FOR SAFETY BEAM INPUT:-
Default:- Normally open

Action		Response
1. Enter program mode by switching dip-switch 6 on only.		Two beeps
2. Dip-switch 1 and 2 on		
3. Press and release Set button		Beeps confirm change 1 = N/C 2 = N/O (Default)
After confirmation beeps		Continuous beep
4. Dip-switch 1 and 2 off		Continuous beep off
To change again without leaving programming, repeat from point 2.		
Switch dipswitch 6 off or continue to another programming option		

ADJUSTING SAFETY OBSTRUCTION SENSING:-

Default: - least resistance most sensitive

Action		Response
1. Rotate Load pot for each motor independently to new sensing level. Motor 1 shown here.		Clockwise = heavier gate resistance less sensitive Anti-clockwise = lighter gate resistance more sensitive
1. Rotate Load pot for each motor independently to new sensing level. Motor 2 shown here.		Clockwise = heavier gate resistance less sensitive Anti-clockwise = lighter gate resistance more sensitive

Adjusting the load sensing level

Load sensing level should be set to allow the gate to complete a full swing in either direction. However when standing in the gate path and allowing the gate to encounter your shoulder while your feet are braced apart, the gate sensing should stop the gate and respond as per the safety for the direction it was travelling in.

Collision/obstruction/hindrance while opening. (All modes)

If a collision, obstruction or hindrance is encountered before the full open position is reached while opening, the gates will stop, back off and wait for the next trigger input, before closing. The status LED will flash rapidly once stationery after backing off the collision. BT trigger clears the status LED indication. For trigger responses see mode selection on page 30.

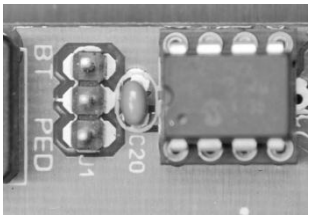
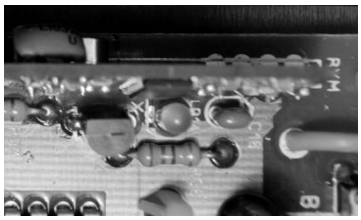
Collision/obstruction/hindrance while closing. (All modes)

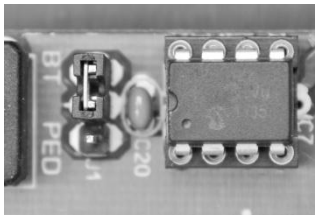
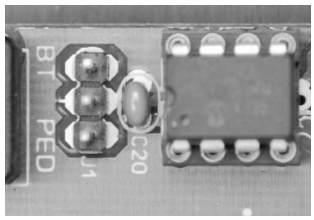
If a collision, obstruction or hindrance is encountered while closing, the gates will stop and reverse to the fully open position. The status LED will flash rapidly once stationery after opening away from the collision. The next trigger input starts the gate closing. BT trigger clears the status LED indication. For trigger responses see mode selection on page 30.

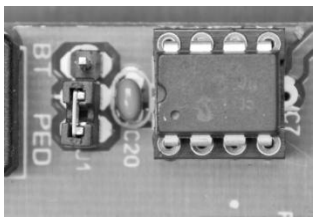
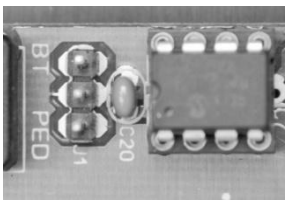
Consecutive collision lock-out.

In cases of a collision, obstruction or hindrance inhibiting the gate from opening or closing fully to the corresponding limit, four times in a row, the controller will lock out all operation for 3 minutes after which it will beep once to indicate time - out is complete. After this mandatory time – out, attempts can be made to operate the gates again. If the cause of the collision lock-out is not cleared, the system will lock again on the fourth failure to reach the limit switch.

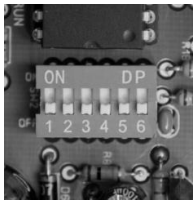
RECEIVER PROGRAMMING: - MASTER ERASE; (Recommended on first time installation)

Action		**Response**
1. All power off		
2. Short both (PED) pedestrian and (BT) button trigger pins to centre pin (Use the key-ring supplied with the transmitters to do this as shown here)		
3. Power up		(RX) receiver LED flashes rapidly - stops flashing - on continuously.
4. Remove all power		
5. Remove (RX) receiver pin short		
6. Power up		(RX) receiver LED on

Learning a TX button for (BT) Full opening operation using (RX) receiver pins: - (25 user memory)		
Action		**Response**
1. Press and hold required TX button		(RX) receiver LED flickers
2. Short Centre (RX) receiver pin to (BT) button trigger pin.		(RX) receiver LED flashes confirmation 1 flash = First transmitter learnt 2 flashes = Successful there is still memory available Multiple rapid flashes = memory full
3. Remove short after confirmation		(RX) receiver LED remains lit in standby
4. Release transmitter button		

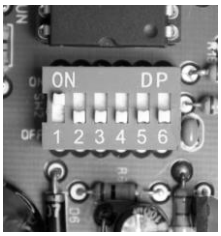
Learning a TX button for (PED) pedestrian ((PED) pedestrian) operation using (RX) receiver pins: - (6 user memory)		
Action		**Response**
1. Press and hold required TX button		(RX) receiver led flickers
2. Short Centre (RX) receiver pin to (PED) pedestrian pin		(RX) receiver LED flashes confirmation 1 flash = First transmitter learnt 2 flashes = Successful there is still memory available Multiple rapid flashes = memory full
3. Remove short after confirmation		(RX) receiver LED remains lit in standby
4. Release transmitter button		

OPTIONAL OPERATING MODES

Dip-switch selection		Mode
		
All off		**STOP, START, STOP MODE**

When the control is activated using any (BT) button trigger input the gates will open or close and can be stopped in mid cycle using any (BT) button trigger input again.
The gates can then be reversed by activating the (BT) button trigger input again.
In this mode the gates will remain open where they have been stopped by button or open limit until the (BT) button trigger input is activated again. (No auto close)

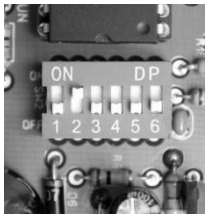
Party mode is available in this mode. (See additional features below)
Holiday lock out is available in this mode. (See additional features below)

Dip-switch selection		Mode
		
Dip-switch 1 ON		**SIMPLE AUTO-CLOSE**

As per Standard mode above however the following differs: -

The control unit times out the pre-programmed auto-close time from any open position after which it begin closing the gates.
While closing the gates any (BT) button trigger or BM input will stop and reverse the motors direction back towards the full open position.
In any open position while auto-close is timing out a BM input will reset the auto-close timer.

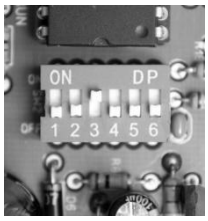
Auto-close override/Party mode is available in this mode. (See additional features below)
Holiday lock out is available in this mode. (See additional features below)

Dip-switch selection		Mode
		
Dip-switch 2 ON		**CONDO/LOOP AUTO-CLOSE** (Default 10 sec.) (select when using a loop detector)

In this mode all triggers are ignored while the gates are opening. On reaching the full open position the unit times out the pre-programmed auto-close time after which it will begin closing the gates.
If the BM or BT button trigger input is activated while the auto-close timer is running the time will simply reset.
On closing any BT button trigger input or BM input will re-open the gates to the full open position.

USE THIS MODE WHEN CONECTING A LOOP DETECTOR.

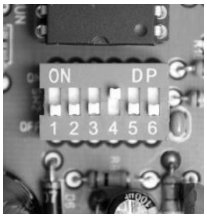
This mode excludes Holiday lock-out, Auto-close override/Party mode

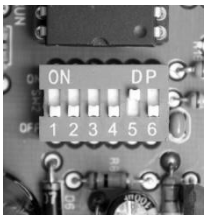
Dip-switch selection		Mode
		
Dip-switch 3 ON		**DELAY MODE** (Default 3 sec.)

This mode is used when an electric lock is installed to lock the two gates together or one of the gates overlaps the other in the closed position.

From the closed position Motor 1 will begin opening the programmed delay time before Motor 2 (default is 3 seconds). From the open position Motor 2 will begin closing first followed after the delay time by motor 1.

This mode ensures the gates never snarl up in the closed position and can be used where one gate must open further than the other.

Dip-switch selection		Mode
		
Dip-switch 4 ON		**STRIKE LOCK MODE**
With this mode selected the courtesy light relay becomes an in line switch (N/O) to be used in the power supply circuit for a spring loaded solenoid electric lock such as an electric strike, rim or catch lock. When in the closed position the courtesy light relay will pulse momentarily, before the motors start running. The reason for this is to prevent the motors pulling against the lock before it has released.		

Dip-switch selection		Mode
		
Dip-switch 5 ON		**MAGNETIC LOCK MODE**
With this mode selected the courtesy light relay becomes an in line switch (N/C) to be used in the power supply circuit for a continuous supply magnetic lock. When the gates are trigger to operate in either direction, the courtesy light relay will energise for prior to the motors running and will remain energised as long as the motors are running. The reason for the delay is to prevent the motors pulling against the lock before it has released.		

If all that happens when triggering the gates is 20 beeps, then both dip-switch 4 and 5 have been selected to on. Correct the combination to both off, 4 on only or 5 on only as per the installation requirements to clear the error condition.

ADDITIONAL FUNCTIONS

HOLIDAY LOCK-OUT Available in all but Condo/loop Auto-close mode.		
Action		**Response**
1. Close gates		
2. Press and hold the (PED) pedestrian button on a master remote		Until 5sec beep begins.
3. Release (PED) pedestrian button on master remote		Beeping will continue until confirmation or 5sec expires.
4. Press and release (BT) button trigger button on the master remote before 5sec beep stop.		1 x multiple rapid beeps will confirm holiday lock-out is active.
To unlock repeat		After multiple confirmation beeps gate will immediately start opening when unlocked.
Holiday lock-out is available only when using a master remote. (No hardwired devices will activate or de-activate it) A master remote is a remote that has (BT) button trigger control as well as (PED) pedestrian opening control. If no (BT) button trigger confirmation trigger is received by the time the intermittent beeps stop (5sec.), the gates will not change status.		

COURTESY LIGHT OUTPUT Not available in strike lock or Magnetic lock mode.
The courtesy light output will activate on any opening trigger ((BT) button trigger or (PED) pedestrian). The light on timer will only start timing out once the gates are closed again.

AUTO-CLOSE OVERRIDE/PARTY MODE **Available in all but Complex Auto-close mode.**		
Action		**Response**
1. With the gates at any open position		
2. Press and hold any TX (BT) button trigger button		After 5sec unit will emit Multiple rapid beeps to confirm.
3. Release button after beeps		Gates will not begin closing after auto-close time has expired.
4. To deactivate repeat 2 and 3 above		1 x long beep and gates starts closing.
If any (PED) pedestrian or (BT) button trigger input is momentarily activated while the unit is in either Holiday lock-out or Auto-close override/Party mode the unit will only emit the multiple rapid beeps and not run the gate.		

PEDESTRIAN FUNCTION. **Available in all modes**		
Action		**Response**
1. With the gates closed		
2. Press and release any PED (pedestrian) input.		1. Three beep tones 2. Only gate 1 opens to open limit. 3. After pedestrian auto-close time the gate returns to the close position.
Any further (PED) pedestrian input triggers while the gate is running are ignored except in the open position, where the auto-close timer will simply reset. Any BM input while the (PED) pedestrian routine is running will cause the gate to continue to the open position if busy opening or reverse back to the open position if closing. If already in the open position, the pedestrian auto-close timer will simply reset. If any (BT) button trigger input is activated while at any stage of the pedestrian routine, the controller will exit pedestrian mode and run both gates to the open position as per the operating mode selected.		

BUZZER INDICATIONS OVERVIEW							
Beeps	Gate status	Dip-switch 6 PROG	Action	Response Motor	Condition	Solution	Table ref:
2 x Rapid beeps	Gates anywhere	Off or On	Momentary BT or Ped input	Attempts to run	Battery flat or faulty	Allow recharge and check for Aux devices overload. If problem persists after ±8 hours charging, replace battery	
2 x 2sec. Beeps	Gates stopped	Off	Momentary BT	Gates run after beeps	Household mains failure	Restore power supply	16
3 x 1sec. Beeps	Gates closed	Off	Momentary Ped	Gates open partially	Pedestrian function activated		34
5 x Rapid beeps	Gates anywhere but closed	Off	Momentary BT or Ped input	None	Auto-close override/party mode active	Toggle off	34
5 x Rapid beeps	Full closed	Off	Momentary BT or Ped input	None	Holiday lock-out active	Close gates Toggle off	33
20 Beeps	Gates anywhere	Off	Momentary BT or Ped input	None	Both dipswitches 4 and 5 on.	Select correct setting	32
Continuous rapid beeps	Gates anywhere	On	None	None	Holiday lock-out active	Close gates Toggle off	33
Continuous as long as trigger is held	Gates anywhere	Off	Continuous BT or PED Input	None	Multiple collision lock-out	Clear obstruction and wait three minutes before using gates again.	27

STATUS LED OVERVIEW	
Off	Gates are closed
Slow flash	Gates are running or waiting for auto-close time to time out
On	Gates are open
Rapid Flash	Gates are obstructed or have exceeded max run time.

WARRANTY: All goods manufactured by G&C Electronics cc T/A ET Systems carry a 12 month factory warranty from date of invoice. All goods are warranted to be free of faulty components and manufacturing defects. Faulty goods will be repaired or replaced at the sole discretion of ET Systems free of charge. This warranty is subject to the goods being returned to the premises of ET Systems. The carriage of goods is for the customer's account. 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. All warranty claims must be accompanied by the original invoice. 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.

- Any unauthorized non-manufacturer modifications to the product or components thereof.
- The use of the ET AXIS swing gate operators in heavy traffic applications such as office parks and residential complexes.

The following items are not included in the warranty.

- The battery
- The motor brushes
- Damage resultant of wind and other climatic influences such as lightning strikes.
- Damage due to high voltage surges on the household mains or short circuiting of the gates to the electric fencing.
- Damage due to infestation i.e. Ants nesting…