

BY-3500T KIT



Complete kit for a sliding gate weighing
up to 3500kg / max. width 23m

QUICK SETUP GUIDE

TO BE READ IN CONJUNCTION WITH THE FULL INSTRUCTION MANUAL

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BY-3500T: KIT CONTENTS



BY-3500T
Motor with built-in ZT6
control panel



AF43S
Radio Frequency Card



TOPD4FKS
Fixed code Transmitter



TOP-A433N
Tuned Antenna



DIR10
Pair of Photocells

SAFETY INSTRUCTIONS



When correctly installed in compliance to installation instructions and adhering to all current electrical, mechanical and manufacturer regulations, your automation system will provide a high degree of safety and problem free operation.

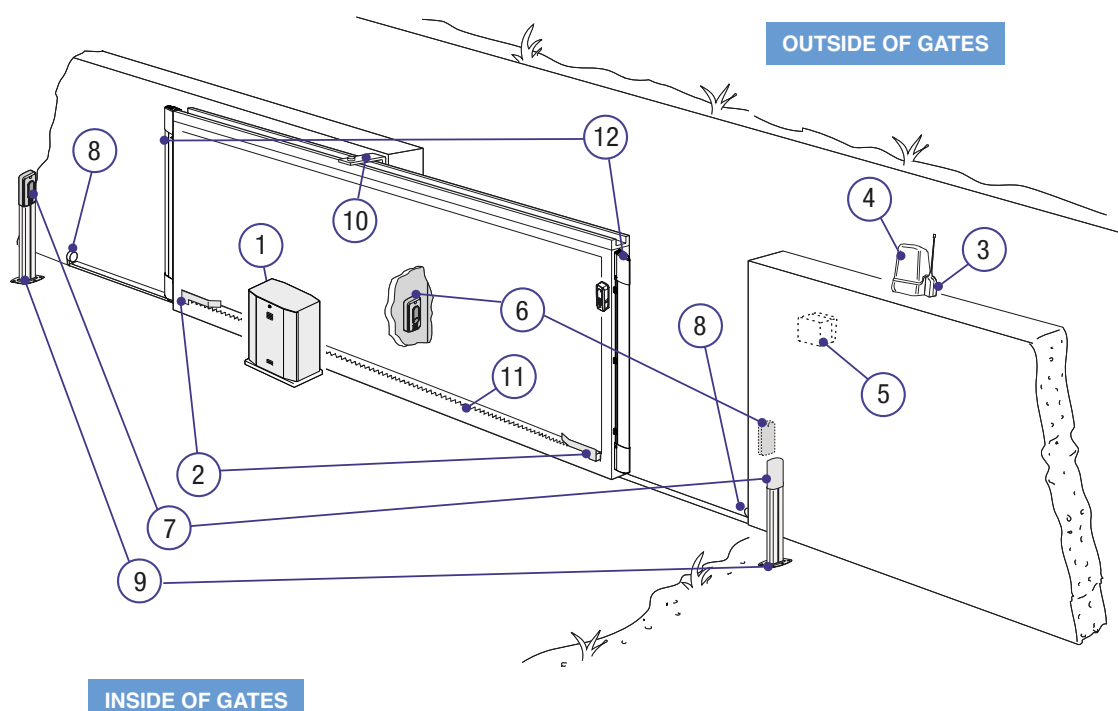


Please take note of the following warnings that must be followed in order to prevent accidents during your gate operation:

- Do not allow children to play near the gate.
- Keep all remote control operating devices out of the reach of children.
- Do not pass through the gate whilst in operation. Wait until they are fully open before passing through.
- Do not stop unnecessarily when passing through the gate.
- Keep feet away from the bottom of the gate during operation.
- Do not operate the gate by remote control unless they are in view.
- Do not attempt to block or interfere with the gate movement during operation.
- Under no circumstances should you attempt to modify the gate automation system.
- Ensure that your gate is serviced at 3 to 12 month intervals (dependent on number of openings) by your installation/maintenance company.
- Report any signs of malfunction to your installation/maintenance company immediately.
- In the case of malfunction, isolate the power supply, release any additional locking mechanism, manually open the gate (see manual release instruction booklet) and call your installation/maintenance company.
- If you are in any doubt regarding the operation of your gate, call your installation/maintenance company.

BY-3500T: TYPICAL GATE SETUP

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|-----------------------------|---|---|
| 1 BY-3500T Motor | 5 Selector Keypad (optional) | 9 Photocell column (optional accessory) |
| 2 Limit switch fins | 6 Photocells (on outside of gate posts) | 10 Slide guides |
| 3 Reception Antenna | 7 2nd set of Photocells (optional) | 11 Rack |
| 4 Flashing Light (optional) | 8 Mechanical End Stop (not supplied) | 12 Sensitive safety-edge |

CONTROL PANEL

- The control panel is integral to the motor and is accessed by removing the outer cover.
- The control panel is protected by a board-protection cover which will need to be removed for initial wiring.



ONLY A COMPETENT SERVICE PROVIDER SHOULD OPEN THE ENCLOSURE AND ADJUST THE SETTINGS.

PHOTOCELLS

- The photocells are used in pairs, one transmitter and one receiver.
- They should be installed between 500-600mm from the ground, facing each other.
- Power for the photocells is taken from the control panel 24v AC.
- The maximum range of the photocell should always be observed.

When the photocell beam is broken, the control panel can be programmed on how to react. Please see 'Safety' section for more information.

BY-3500T: GEOMETRY

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PRELIMINARY CHECKS

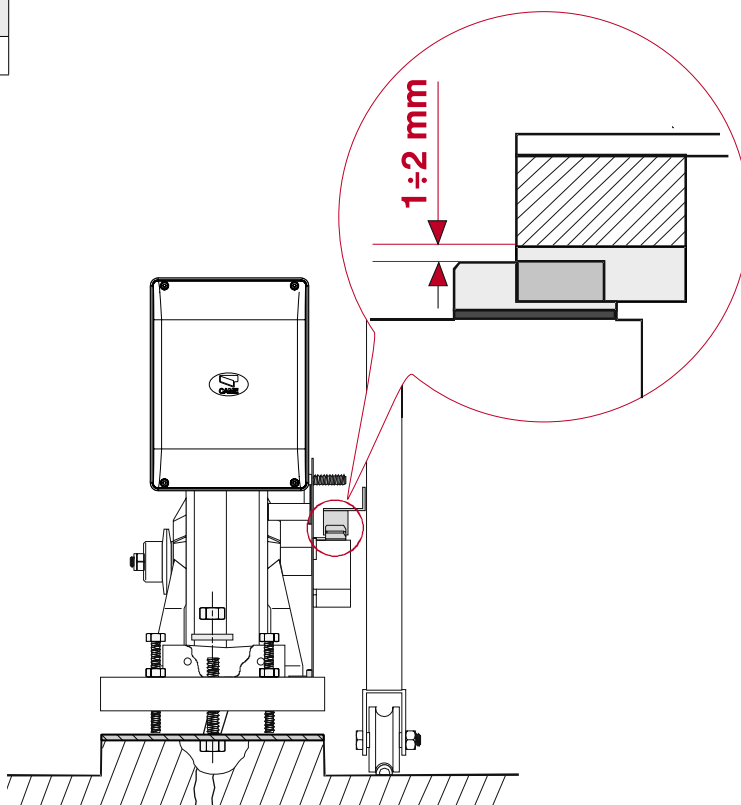
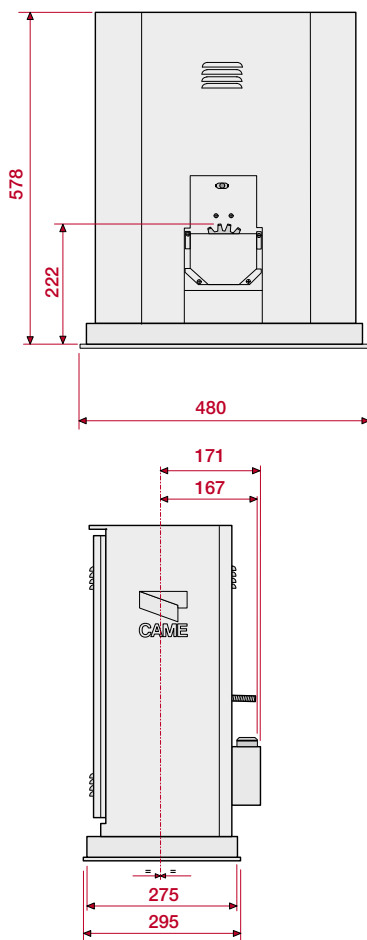
1. Ensure that all surfaces are perfectly level (Do not install on slopes)
2. Foundation frame dug out
3. Set up the corrugated tubes needed for the wiring coming out of the junction pit.
4. Use Ø 40 mm corrugated tubes to connect the gearmotor to the accessories
5. Prepare a Ø 20 mm tube to run the release cord through A.
6. Use Ø 40 mm corrugated tubes to connect the gearmotor to the accessories
The number of tubes depends on the type of system and the accessories that are going to be fitted

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GATE GEOMETRY

Max Leaf Length (m)	Max Leaf Weight (kg)
23	3500



1-2mm. The rack and pinion should mesh.
Do not allow the rack to rest on the pinion.
The gate motor must be installed parallel to the gate.

INSTALLATION

Please refer to the full manual for installing the motor, rack and setting travel end points

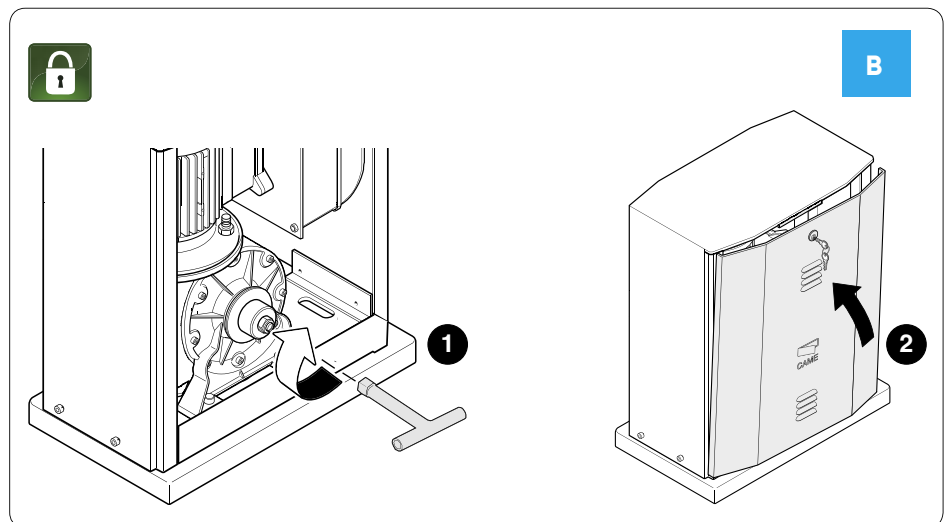
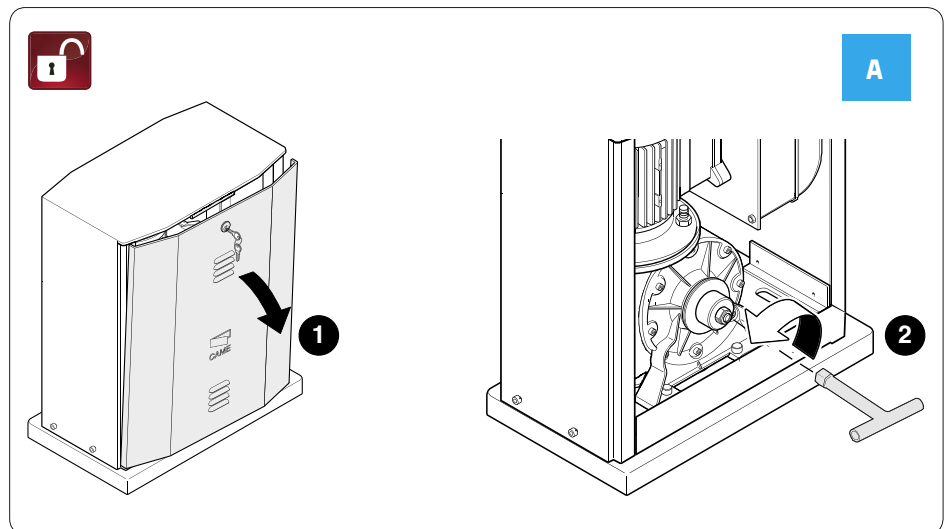
BY-3500T: MANUAL RELEASE

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The BY-3500T sliding gate operator has a manual release system inside the metal casing.

TO MANUALLY RELEASE THE GATES:

1. Unlock and remove the cover **A1**.
2. Insert the locking key provided **A2** and turn to release the gate.
3. The gate should be manually released. Fully open the gate carefully at the same speed as the automatic operator.
4. To re-engage, close the gate and re-engage the mechanism using the locking key **B1**.
5. Replace the casing and lock back in place **B2**.
6. Attempt to manually move the gate to ensure it is fully engaged.



ALWAYS isolate the power supply as instructed by your installer (even in a power cut).



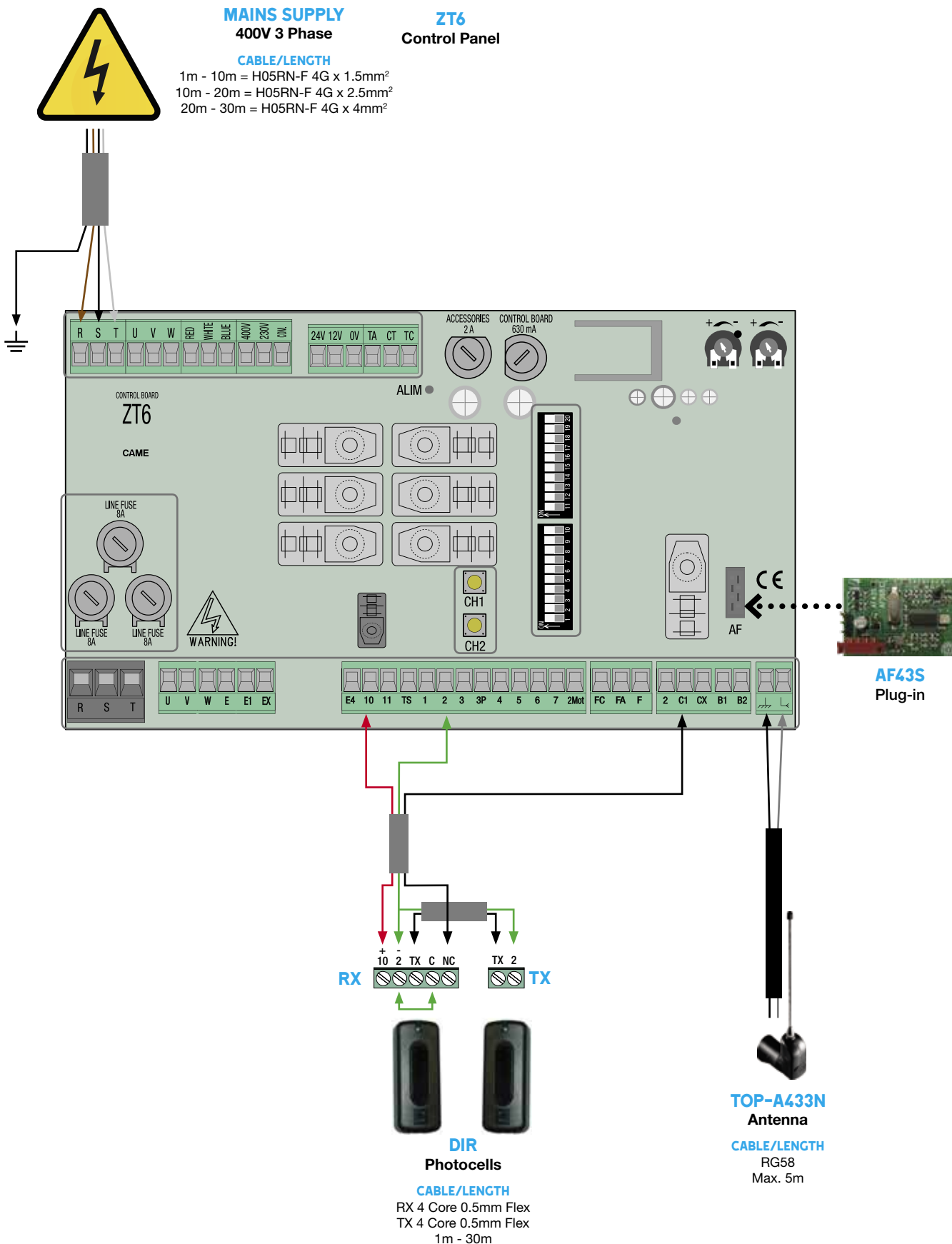
Release any additional locking device fitted to the gate (eg. electric lock etc).

BASIC MAINTENANCE: HINTS & TIPS

- If a ground track is fitted, ensure the track is always clear of debris.
- Lubricate manual release compartment and key mechanism.
- Manually release the gates at least once per month.

BY-3500T: WIRING DIAGRAM

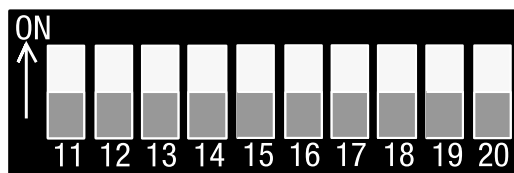
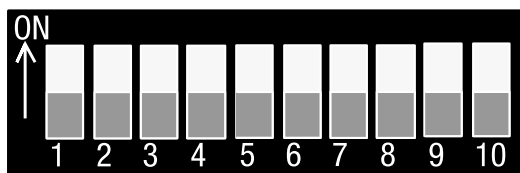
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ZT6: QUICK START GUIDE

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IMPORTANT!



Ensure the wiring is complete (refer to the wiring diagram) & any required physical stops are set before commencing with programming

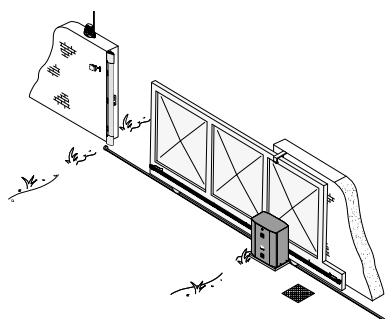
1. Power on the control panel.
2. Disable total stop – Dip switch **10 ON**.
3. Disable the safety input C1 – Dip switch **7 ON**.
4. Disable safety input CX – Dip switch **8 ON**.
5. Set all other dip switches off.

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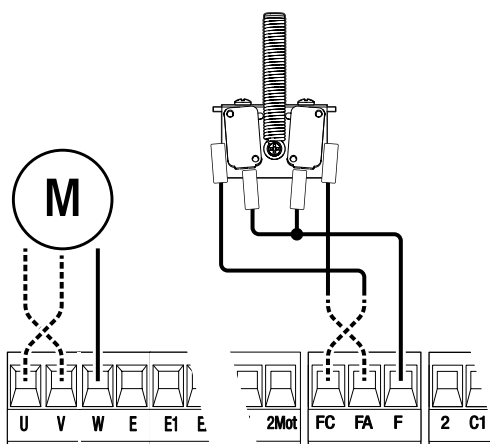
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6. Set the motor direction as viewed from the inside of the property looking out.

The default setting for the motor is left hand opening if the gate is to open to the right the motor and end stop connections must be swapped as below.



Right hand opening.



7. With the gate in the closed position check the gate operation by pulsing across connections 2 & 3, the gate will open.

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**Please refer to the main manual for:
Changing automatic closing time, adjusting encoder settings if required**



SAFETY INPUTS SHOULD NOW BE CONFIGURED AND THE GATE FORCE TESTED AS REQUIRED. PLEASE REFER TO THE FULL MANUAL TO COMPLETE THE COMMISSIONING.

**SHOULD THE GATES NOT OPERATE AS SUGGESTED ABOVE,
CALL CAME HELPLINE 0115 921 0430 FOR TECHNICAL SUPPORT.**

ZT6: TRANSMITTERS

CAME 

Ensure the AF card is fitted (refer to the wiring diagram).



CH1



CH2

ADD A TRANSMITTER BUTTON

1. Press and hold the **CH1** button, the **PROG. LED** starts flashing rapidly.
2. While keeping the **CH1** button held down press and release a button on a transmitter
The **PROG. LED** goes solid to signal the successful saving of the code.
3. Release the **CH1** key.
One individual button can be saved.

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DUPLICATING A TRANSMITTER BUTTON

Additional transmitters will need to be duplicated from the one that was saved to the control board in the above procedure.

Using a transmitter that has not been saved on to the control board

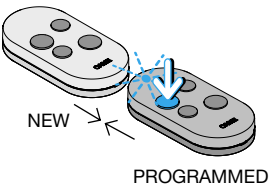
1.  Press and hold the two large buttons on the remote until the LED at the top starts flashing rapidly.

Release the buttons.

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2.  Now press and release the button you wish to use to open the gate.
The LED will change to a slow flash.

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3.  Place the previously programmed transmitter against the new transmitter.
Press and release the button on the previously saved transmitter that is used to open the gate.

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The LED on the new transmitter will flash three times to acknowledge it has received the signal from the saved transmitter.

**SHOULD THE TRANSMITTER NOT OPERATE AS SUGGESTED ABOVE,
CALL CAME HELPLINE 0115 921 0430 FOR TECHNICAL SUPPORT.**

SAFETY INPUTS

FUNCTIONS > C1 Input, CX Input

C1 REOPENING DURING CLOSING

- When the automation is in its closing cycle and the safety circuit is triggered the automation will stop and reverse its motion until it reaches its fully open position again.
- If the auto closing option is enabled and the safety is no longer triggered the auto closing countdown will commence, once completed the automation will start the closing cycle again.
- If the auto closing option is not enabled the automation will return to the fully open position awaiting another activation from a command device.

C2 RECLOSING DURING OPENING

- When the automation is in its opening cycle and the safety circuit is triggered the automation will stop and reverse its motion until it reaches its fully closed position again.
- Once the automation has reached the fully closed position it will require another activation from a command device to restart.

OR

C3 PARTIAL STOP

- When the automation is in its opening cycle and the safety circuit is triggered the automation will stop.
- If the auto closing option is enabled and the safety is no longer triggered the auto closing countdown will commence, once completed the automation will start closing the device.

The above sequence will be attempted 3 times before the automation is halted, the automation will then require activation from a command device to restart.



If during the reverse motion a different safety is triggered the automation will perform the appropriate action for the new triggered safety, should multiple safeties be triggered at the same time the automation will be halted at its current position.

BY-3500T: ACCESSORIES



	Code(s)	Description
RADIO KEYPAD SELECTORS		
	806SL-0170	SELT1W4G - Surface-mounted, 433.92 MHz radio-frequency keypad selector, 12-keys, with blue backlighting. 25 savable codes and password to access the programming mode. Settable in Rolling Code or Fixed Code mode. RAL7024 Grey colour.
	806SL-0180	SELT1W8G - Surface-mounted, 868.35 MHz radio-frequency keypad selector, 12-keys, with blue backlighting. 25 savable codes and password to access the programming mode. Settable in Rolling Code or Fixed Code mode. RAL7024 Grey colour.
	001AF868	Plug-in 868.35 MHz radio frequency control card. Required for 806SL-0180.
BLUETOOTH SELECTORS		
	806SL-0210	SELB1SDG1 - Surface-mounted with blue backlighting, for 15 users. RAL7024 Grey colour.
	806SL-0240	SELB1SDG2 - Surface-mounted with blue backlighting, for 50 users. RAL7024 Grey colour.
	806SL-0250	SELB1SDG3 - Surface-mounted with blue backlighting, for 250 users. RAL7024 Grey colour.
HARDWIRED KEYPAD SELECTORS		
	806SL-0280	SELT1BDG - Surface-mounted 12 button Bus keypad with blue backlighting. RAL7024 Grey colour.
	806SL-0290	SELT2BDG - Flush-mounted 12 button Bus keypad with blue backlighting. RAL7024 Grey colour.
	806SL-0370	S0002P - External, two channel, 12 - 24 V AC - DC IP54 control card for keypads. Required for 806SL-0280 and 806SL-0290.
TOP - FIXED CODE		
	8K06TS-002	TOPD4FXM - pack of 6 dual-frequency 4 button transmitters with self-learning function.
PHOTOCELLS		
	Surface mounted. Synchronised beam, multiple pairs of photocells can be applied to the same system, even at double height and/or close to each other - with no interference issues (cross talk).	
	001DIR10	Pair of 12 - 24 V AC - DC outdoor photocells - range 10m.
	001DIR20	Pair of 12 - 24 V AC - DC outdoor photocells - range 20m.
	001DIR30	Pair of 12 - 24 V AC - DC outdoor photocells - range 30m.
PHOTOCELL COLUMN		
	001DIRL	Natural finish aluminium post. H = 500mm
	001DIRLN	Black anodised aluminium post. H = 500mm
	001DIRCG	Silver RAL9006, PVC post. H = 500mm

FOR MORE KIT ACCESSORIES PLEASE CONTACT SALES ON 0115 9210 430

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