



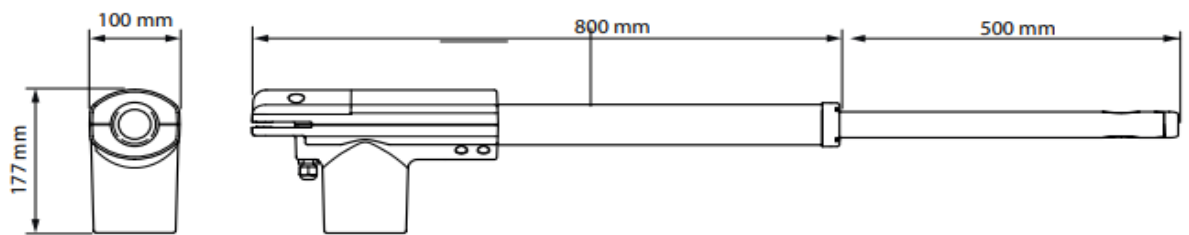
Skyline Gate Automation
Smart and Secure Access

User Manual (Quick Set-up)
24V DC Swing Gate Motor-V2
(SGA-MOOV500-24V)



• **Motor Stroke & Dimensions:**

UNDER NO CIRCUMSTANCES SHOULD THE EXPANDED STROKE OF THE MOTOR BE USED AS A LIMIT



Clutch Override:

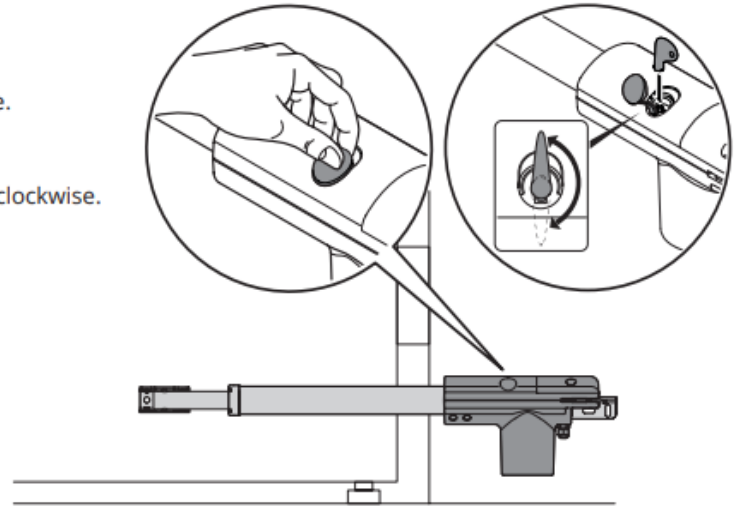
In case of an emergency or requirements during installation the gate can be moved open and close by hand operation if the clutch is disengaged. To disengage the clutch follow the procedure below.

To Disengage

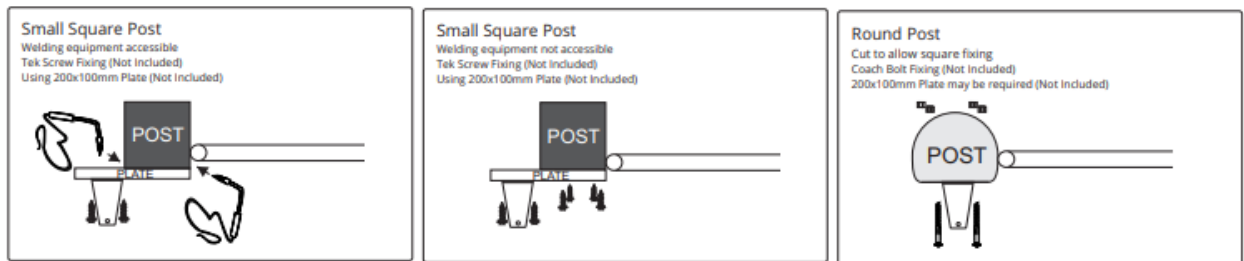
1. Open the dust cover.
2. Insert the allen key and turn by 90° clockwise.

To Engage

1. Insert the allen key and turn by 90° counter-clockwise.
2. Close the dust cover.



Post Side Motor Bracket Installation:



Gate Stop Installation:

Before beginning the installation of the gate motors a physical gate stop must be installed at the closed position.

For Single gate systems the gate stop can be installed in two different methods.

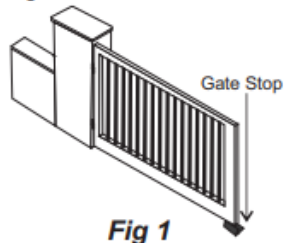
1. On the driveway itself at the furthest point from the hinge as illustrated in the diagram below (Fig 1).
2. On the post that the gate will close too (Fig 2).

NOTE: For Push to Open Installations both the open and close stops are required

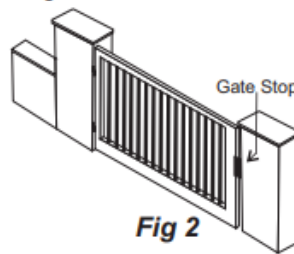
For Double gate systems the gate stop must be installed in the center of the driveway stopping both gates (Fig 3).

When installing on the driveway itself it is recommended to use a rubber floor stop to prevent damage to vehicle entering and exiting. When installing on the post for single gate installations a 90° angle can be used with a rubber padding to dampen or soften the close and prevent damage to the gate.

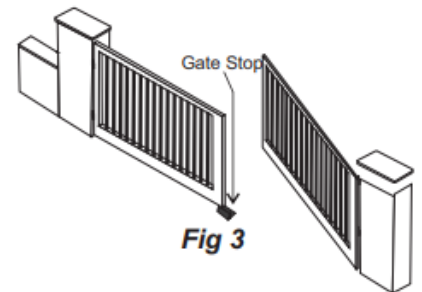
Single Gate Installation



Single Gate Installation



Double Gate Installation

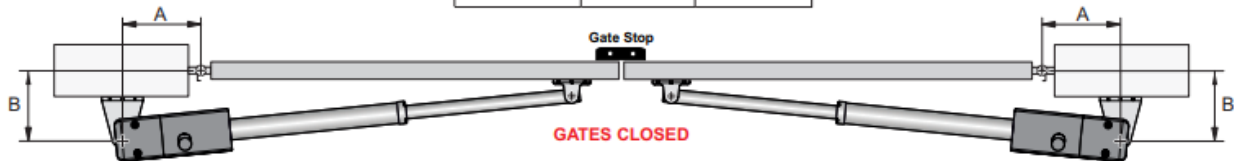


UNDER NO CIRCUMSTANCES SHOULD THE EXPANDED STROKE OF THE MOTOR BE USED AS A LIMIT



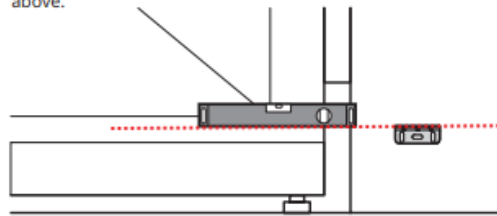
Pull To Open Installation (Gate Swings In Towards The Property):

| | A | B |
|------|-------|-------|
| 90° | 200mm | 250mm |
| 110° | 170mm | 170mm |



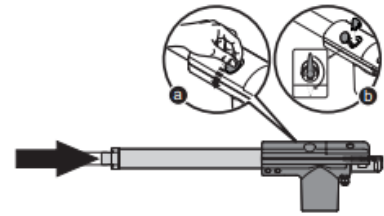
1

Install the center of the post bracket inline with the center of your gates horizontal rail using the supplied geometry above.



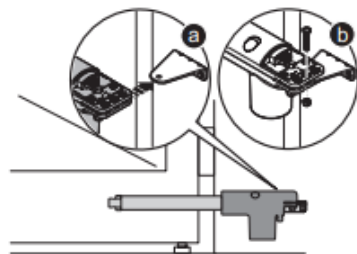
2

Using the Manual Override disengage the clutch and push the actuators piston in till it is fully retracted.



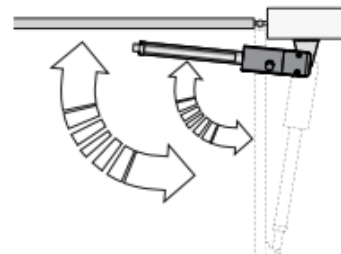
3

Install the RETRACTED actuator on the post bracket ONLY.



4

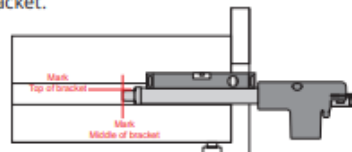
Open the Gate to the desired open angle swinging the actuator along with the gate.



5

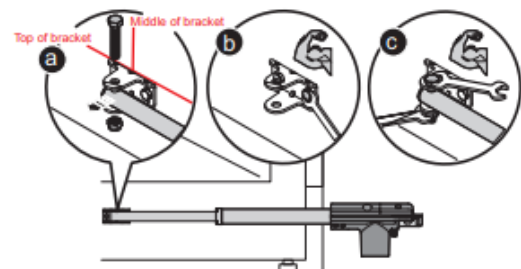
Once the gate is in the FULL open position push the retracted actuator against the gate:

1. make a vertical mark at the end of the piston, this will be the centerline for the gate bracket.
2. Make a horizontal line with the actuator level, this will be the top of bracket.



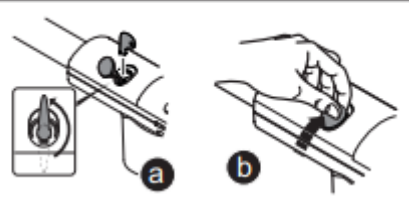
6

Install the gate bracket to the gate then to the actuator. Ensure the nylon washers are installed above and below the piston.



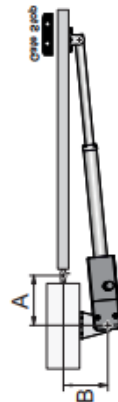
7

Re-engage the gate motor in the open position.



Repeat the above steps for the second gate motor if applicable

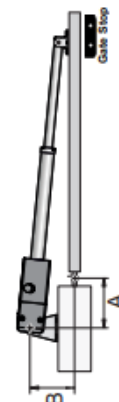
• Push To Open Installation (Gate Swings Out Towards The Street):



| | A | B |
|-------------|-------|-------|
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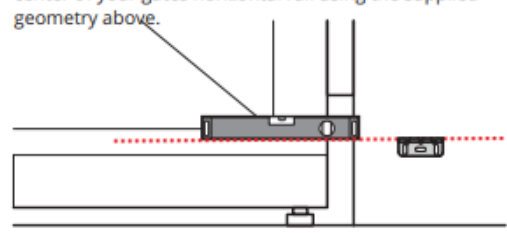
Gate Stop

GATES OPEN



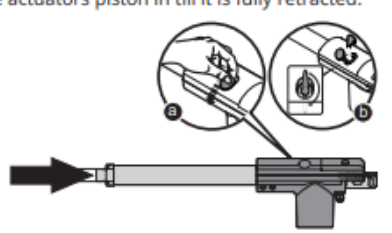
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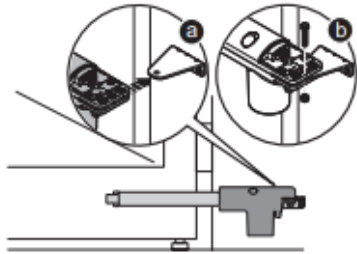
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Using the Manual Override disengage the clutch and push the actuators piston in till it is fully retracted.



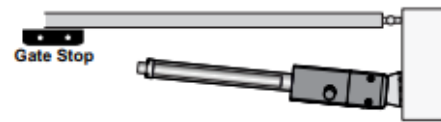
3

Install the RETRACTED actuator on the post bracket ONLY.



4

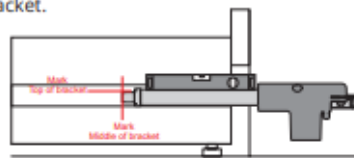
Close the Gate against the gate stop swinging the actuator along with the gate.



5

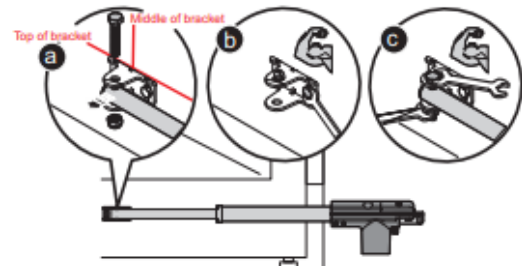
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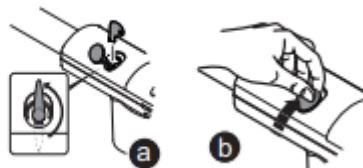
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Install the gate bracket to the gate then to the actuator. Ensure the nylon washers are installed above and below the piston.



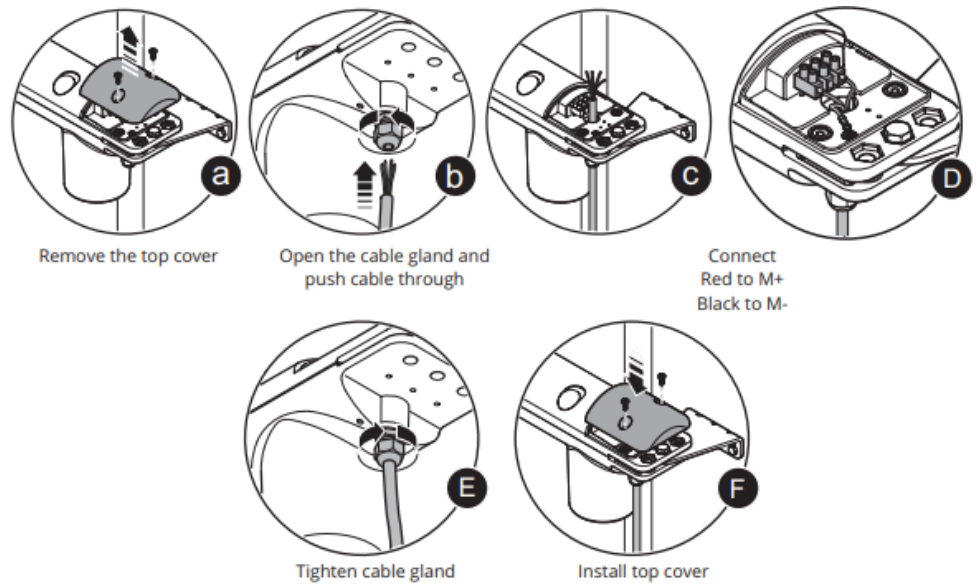
7

Re-engage the gate motor in the open position.



Repeat the above steps for the second gate motor if applicable

• **Motor Wiring:**



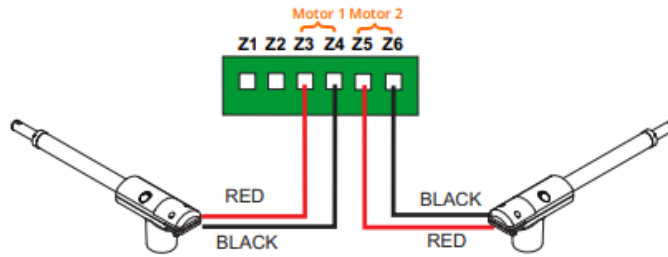
SGA

V2 Control Board (CITY2+) Connection :

Pull-To-Open

Motor will be pulling the gate towards it for OPENING.
Gates (Left and Right) are based on observation of the gates from the same side the motors will be installed on.

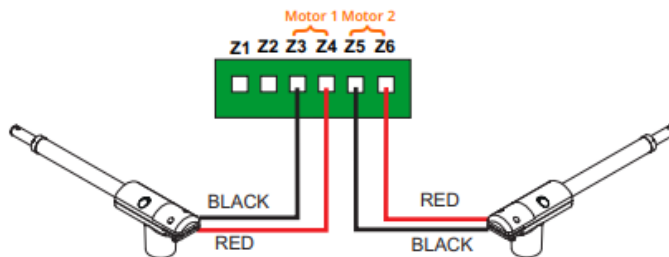
Pull-To-Open
Motor 1 Opens FIRST
Motor 2 Opens SECOND



Push-To-Open

Motor will be pulling the gate towards it for CLOSING.
Gates (Left and Right) are based on observation of the gates from the same side the motors will be installed on.

Push-To-Open
Motor 1 Opens FIRST
Motor 2 Opens SECOND



SGA

• V2 Control Board (CITY2+) Terminals:



Operational Inputs

- L3. Start (Full Operation) Command (N/O)
- L4. Start P. (Pedestrian Operation) Command (N/O)
- L5. Stop Command (N/C)
- L6. Common Ground

Safety Inputs

- L7. Photocell Input 1 ((N/C)
- L8. Photocell Input 2 (N/C)
- L9. Safety Edge Input 1 (N/C)
- L10. Safety Edge Input 2 (N/C)
- L11. Common Ground

Accessories Power

- K6. Constant +V DC Output
- K8. +V DC Output Only when in an operating cycle
- K7. Common

Lamp Output 24V

- Z1. Lamp Output + (24V DC Max 3W)
- Z2. Lamp Output - (24V DC Max 3W)

Antenna

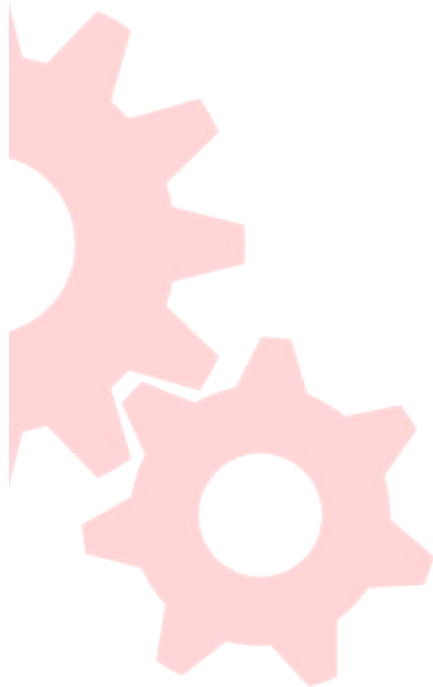
- L1. Antenna Shield (applicable with external antenna)
- L2. Antenna Core

Light Output

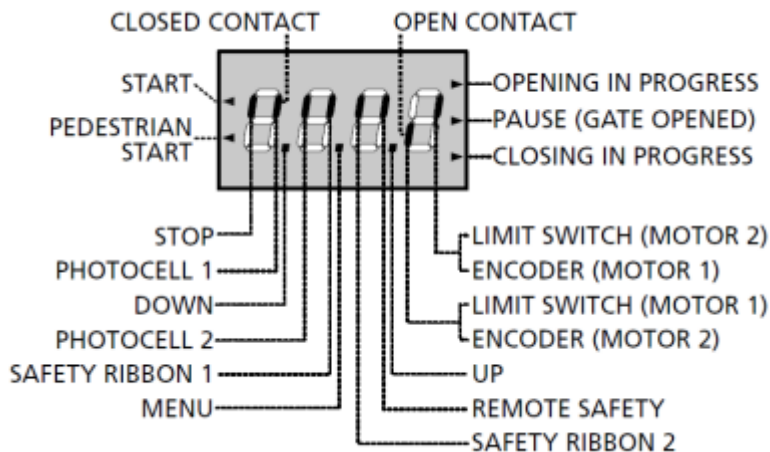
- B1. Pole 1
- B2. Pole 2

Motor Output

- Z3& Z4. Motor 1
- Z5 & Z6. Motor 2



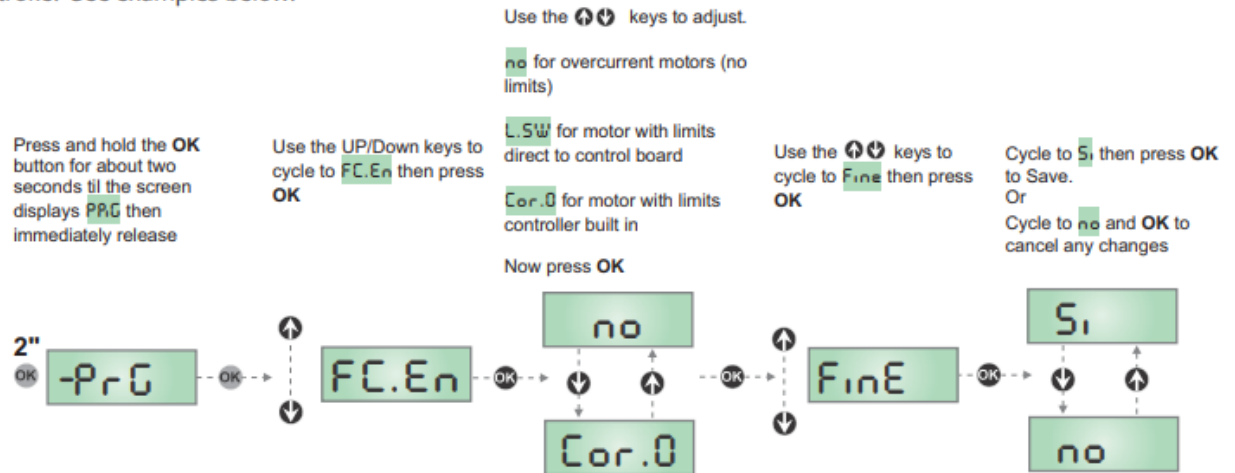
• LCD Interface:



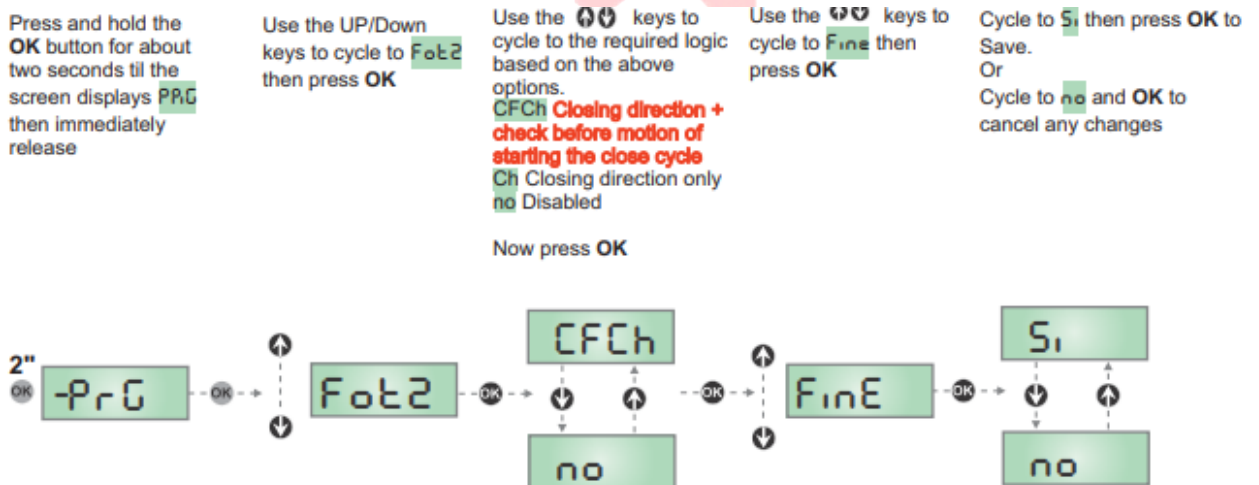
➤ Quick Parameters Settings:

• Configuration According To Motor Type (Parameter FC.En Must Be Set To NO):

Each motor type uses a different configuration based on the expectation of the controllers anticipation for end of stroke. See examples below.

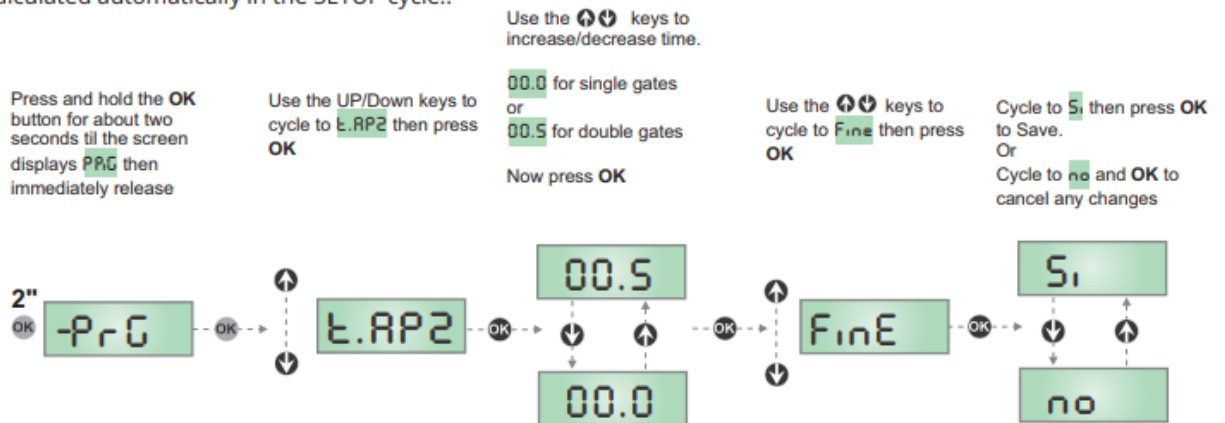


• Enable or Disable the Photobeam Sensor (Parameter FOT2 Must be Set To NO if Sensor is not connected Or Before Running The Set Up Cycle):



Setting The System For SINGLE/ DOUBLE GATE (Parameter t.AP2 Must Be Set to Zero(0) For Single Swing Gate – Don't Do Any Changes If Its Double Swing Gate):

In the case where the system is a single swinging gate the time for motor 2 output which is not used should be set to 00.0. In the case where the installation is double gate the time can be set to greater than 00.0 (ex. 00.5) as this will be calculated automatically in the SETUP cycle..

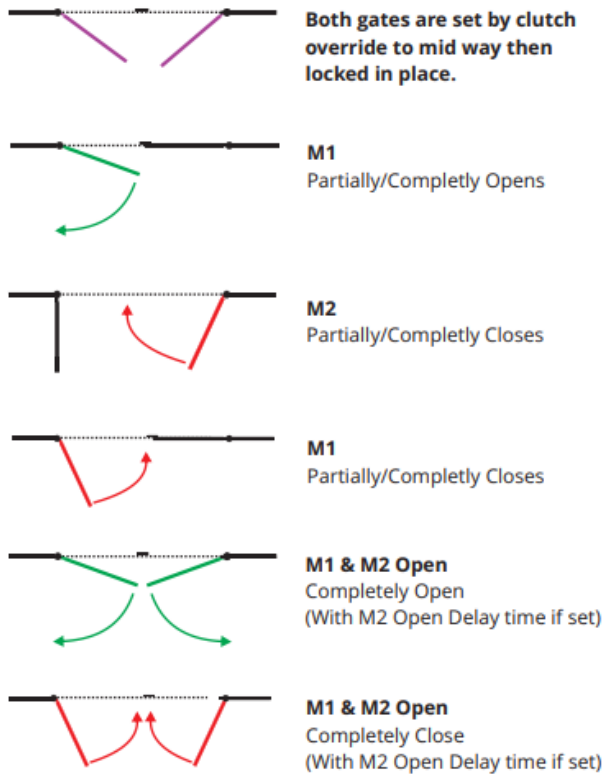


Set Up Cycle (Set The Gates Half-Open Using Manual Override Keys Before Running The Set Up Cycle):

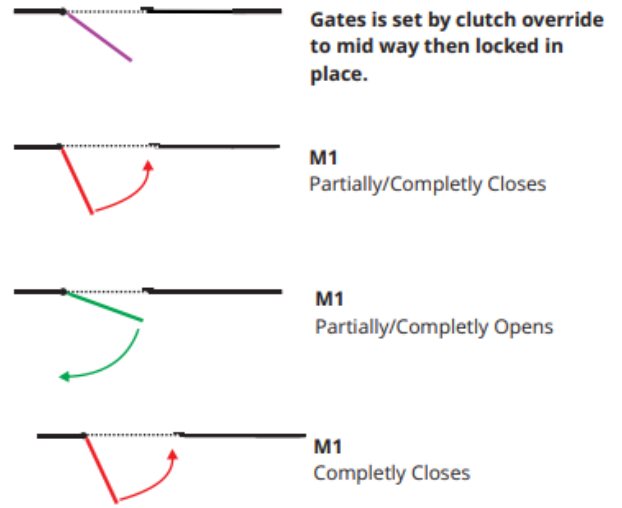
1 The purpose of the SETUP cycle is so that the gate control panel can learn its opening and closing limits and learn its slowdown. If the control panel is not setup it may run inconsistently and/or may not reach its stopping points and/or slowdown incorrectly.



2 Double Gate Procedure

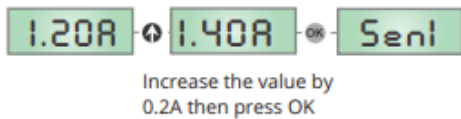


2 Single Gate Procedure

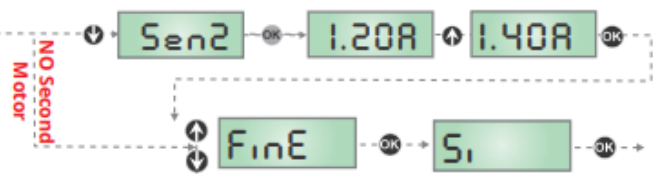


Final Setting & Saving:

At the end of the procedure it will immediately display current value for M1 **Sen1**



SECOND MOTOR (M2) Cycle to **Sen2** and also increase by 0.2A

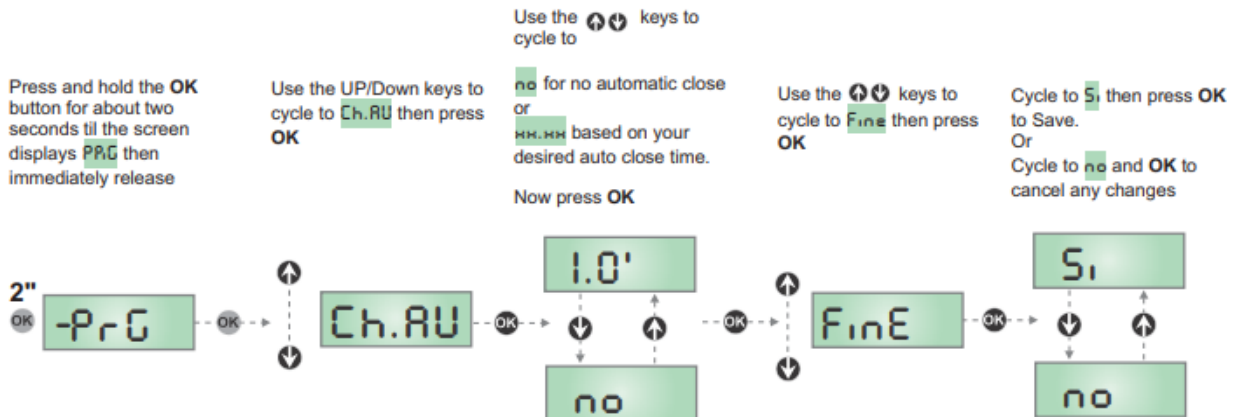


Use the  keys to cycle to **FinE** then press **OK**

Cycle to **S1** then press **OK** to Save.
Or
Cycle to **no** and **OK** to cancel any changes

➤ **More Parameters Settings:**

• **To Enable Automatic Closing:**

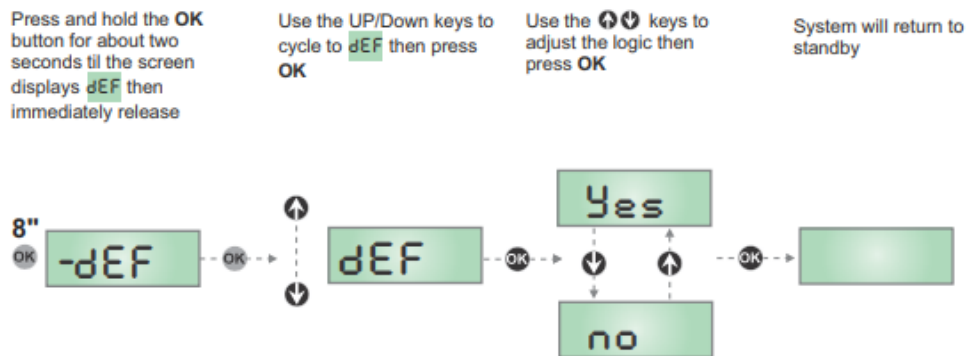


• **Settings for Loop Detectors & Gate Timers:**

St.rE should be set to **or oL** to enable the function of full timer mode
St.oP should be set to **no**, Stop input will be ignored
St.AP should be set to **no**, this will ignore commands whilst opening
St.CH should be set to **APEr**, this will revert the gate to open if a command is given during closure
St.PR should be set to **PRUS** to reset the automatic closing time when a command is given

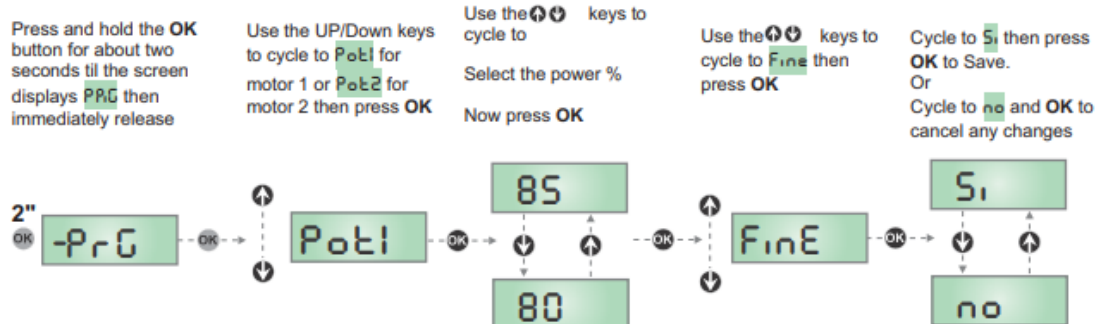
• **Reset to Factory Default:**

This will set all parameters to default, any changes made to the settings will be lost however remote's and other wireless equipment will remian.



To Adjust Motor Power During Normal Speed (Default Value is 80):

The displayed value is the current power setting for each individual motor, they are adjustable from 30(%) to 100(%).



To Adjust Motor Power During Slowdown Speed (Default Value is 50):

The displayed value is the current power setting for each individual motor, they are adjustable from 0(%) to 70(%).

