

SEA 'SWING 2' Control Panel Programming Guide

This guide is intended to be used in conjunction with the booklet supplied with the unit.

Before starting programming check all the 'Normally Closed Inputs either have a device fitted for example;

A Stop Button, set of Photocells or are wire-linked out and the following 3 led are lit:-

Stop input:	–	led 1
Photocell 2 input:	–	led 4
Photocell 1 input:	–	led 5

The motor run times can be programmed in two ways:-

- 1) By programming run times and leaf delays using the 'Self-learn' button – P 1
Or
- 2) By adjusting the motor run times and closing leaf delay by adjusting the Trimmers

Option 1 – Self-learn

Starting with the 'Swing 2' de-powered. Manually move the gates to 45° and re-connect releases.

Set all the dip switches to the OFF position and rotate Trimmer RV3 fully clockwise. Switch-on the power.

The following programming sequence will require a total of 9 presses of Button P1 - The first is a long press (approx. 10 seconds.) to enter the programming phase the subsequent 8 presses are all short approx. 1 second duration.

Both motors must first run towards closed when starting the programming phase – Invert the black & brown motor wires of motors that initially run towards the open direction.

Leaf Delay cannot be excluded from this programme. For minimum 'Leaf Delay', Button P1 should be immediately re-pressed as soon as the motor starts running on 'Press number 4 and 7. This will keep the delay down to a minimum.

1. Press P1 for approximately 10 seconds – until led P lights and Motor 2 starts running towards closed.
2. Press P1 again when Motor 2 strikes the closed stop – *Motor 2 will stop and Motor 1 starts to close.*
3. Press P1 again when Motor 1 strikes the closed stop – *Motor 1 will stop, then automatically start to run towards open.*
4. Press P1 again to set the amount of leaf delay in opening – *Motor 1 will pause for a second then continue opening.*
5. Press P1 again when Motor 1 strikes the open stop – *Motor 1 will stop and Motor 2 will start to open.*
6. Press P1 again when Motor 2 strikes the open stop – *Motor 2 will stop and then automatically start to close.*
7. Press P1 again to set the amount of leaf delay in closing – *Motor 2 will pause for a second then continue closing.*
8. Press P1 again when Motor 2 strikes the closed stop – *Motor 2 will stop and Motor 1 will start to close.*
9. Press P1 again when Motor 1 strikes the closed stop – *The Programming mode finishes and led P goes out*

Test the timings are correct. If so, additional logic selections can now be made i.e. Slowdown or Reversing Stroke etc. To select Operating Logic put dip switch 1 into the required position.

Trimmer RV2 adjusts the amount of 'Slow-down' when working in this programming mode.

Trimmer RV3 adjusts the 'Automatic Closing Times, turn anti-clockwise to select the required time.

Option 2 – Trimmer Adjustment

Put logic 'dip switch' 8 into the ON position and turn 'Trimmer RV3 to the fully clockwise position.

N.B. Because not all Trimmer alterations are registered until the cycle has completed, make any necessary 'Trimmer' adjustments when the gates have fully completed a cycle and are at rest in the closed position.

Trimmer RV1 – Adjusts the 'Motor Torque' (power) on electro-mechanical operators - Set at maximum for hydraulic Operators and adjust the operators power by working on the pressure adjusting valves.

Trimmer RV2 – Adjusts the amount of 'Leaf Delay' in closing when programming in this mode. Leaf Delay in opening is preset and non-adjustable.

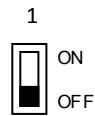
Trimmer RV3 – Adjusts the 'Leaf Delay' in Closing'.

Trimmer RV4 – Adjusts the 'Motor Run Times'.

Operating Logic - Selection

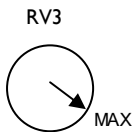
N.B. Turning Trimmer RV3 fully clockwise turns off the automatic closing function.

When the Trimmer is turned fully anti-clockwise - Automatic Timed Closing is selected and open pause time is set to minimum. As the Trimmer is gradually turned clockwise the open pause will be increased.



Semi-Automatic Logic

Slide logic 'dip switch 1' to the **OFF** position and turn Trimmer RV3 clockwise to maximum.

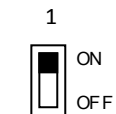


A 'start input' opens the gates.

A 'start input' given when the gates are opening – stops the gates – the next input will re-close the gates.

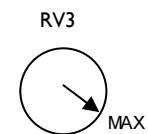
A 'start input' is required to close the gates from the fully position.

A 'start input' given when the gates are closing - stops & re-opens the gates.



Safety – Semi-Automatic Logic

Slide logic 'dip switch 1' to the **ON** position and turn Trimmer RV3 clockwise to maximum.

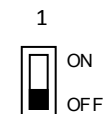


A 'start input' opens the gates.

A 'start input' given when the gates are opening – stops and automatically re-closes the gates.

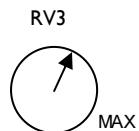
A 'start input' is required to close the gates from the fully open position.

A 'start input' given when the gates are closing - stops & re-opens the gates.



Automatic Closing Logic

Slide logic 'dip switch 1' to the **OFF** position and adjust Open Pause Time with Trimmer RV3.

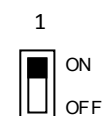


A 'start input' opens the gate.

A 'start input' given when the gates are opening is ignored.

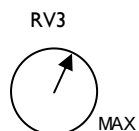
A 'start input' given during the 'open pause' is ignored.

A 'start input' given when the gates are closing - stops & re-opens the gates.



Safety – Automatic Closing Logic

Slide logic 'dip switch 1' to the **ON** position and adjust Open Pause Time with Trimmer RV3.



A 'start input' opens the gate.

A 'start input' given when the gates are opening – stops and automatically re-closes the gates.

A 'start input' given during the 'open pause' closes the gates.

A 'start input' given when the gates are closing - stops & re-opens the gates.

Other 'Logic Options' can now be selected – See page 10 of the manufacturers booklet for more information.