

INTRODUCTION

These instructions are written as a supplement to the Kinetrol maintenance instruction TD76 and explain how to convert the direction of movement of the EL Positioner from clockwise (CW) to anti-clockwise (ACW) or visa-versa.

On the details below, when describing “clockwise” the vane will be at 0°. If the unit is anti-clockwise and you are converting to clockwise, the vane will be at the 90°

PART 1 - CONVERTING THE DIRECTION OF MOVEMENT

1.1 – Tools required

- Screwdrivers
- 4-20mA supply
- Air supply (approximately 80 psi)

1.2 – Remove red indicator and lid

Red indicator with screw to clamp

Lid is retained with four captivated screws

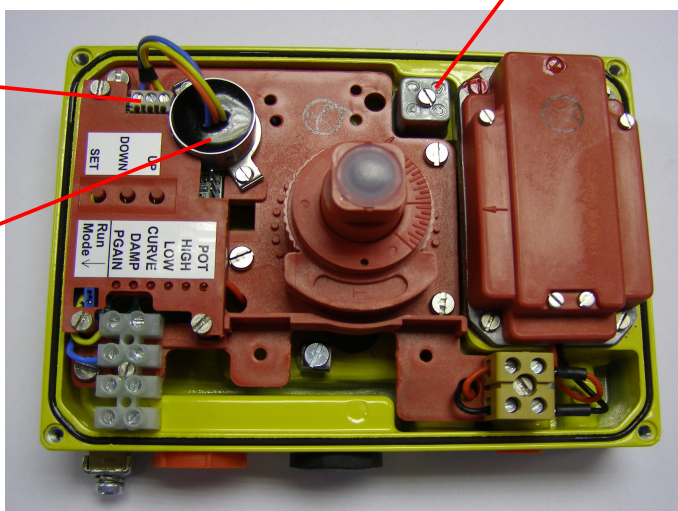


1.3 – Open the top of the box

Potentiometer terminal block

Potentiometer

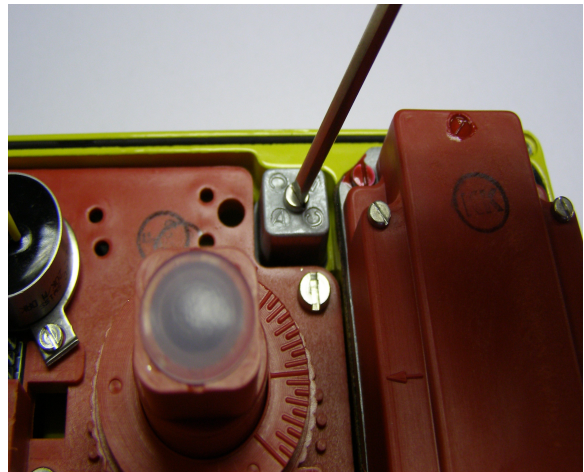
Change over block



Title: Reversing the direction of movement of an EL Positioner – Visual Guide

1.4 – Disconnect the air supply. Undo the screw holding down the changeover block. Rotate the changeover block through 90 degrees.

Re-tighten the screw.



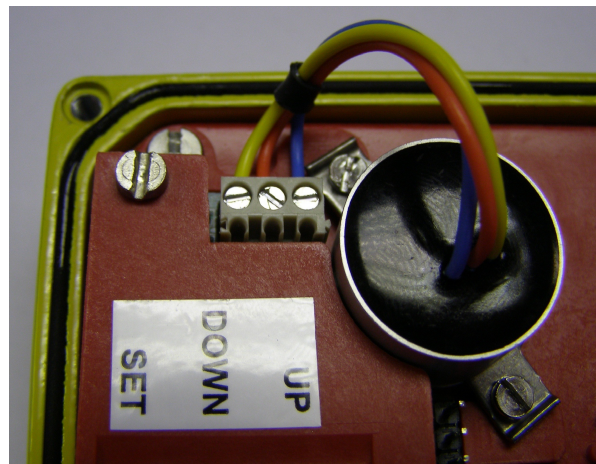
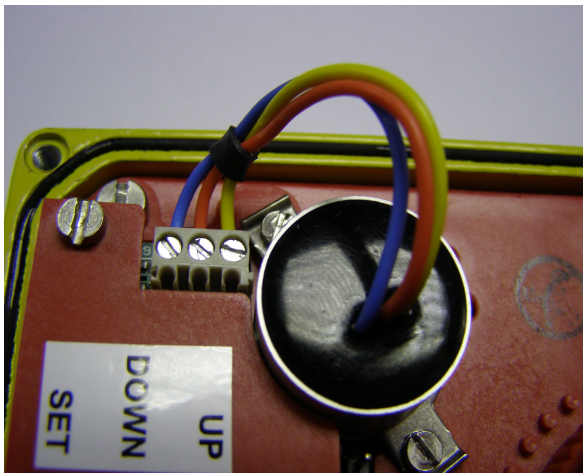
1.5 – Connect the air supply with no signal. The actuator vane will move to the end stop position.

1.6 – Disconnect the air supply.

1.7 – Undo the blue and yellow wires on the potentiometer terminal block, swap the wires across and re-tighten the terminal block. The wiring should look as follows.

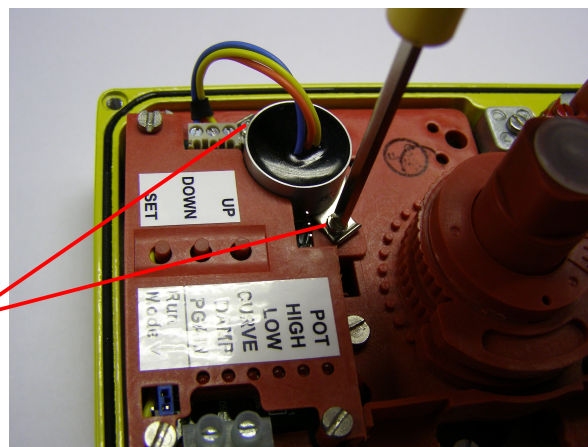
Rising signal anti-clockwise
(blue, red and yellow)

Rising signal clockwise
(yellow, red and blue)



1.8 – Check the air supply is disconnected and that the actuator vane is at the end stop. Connect the signal and set any current between 4 to 20 mA.

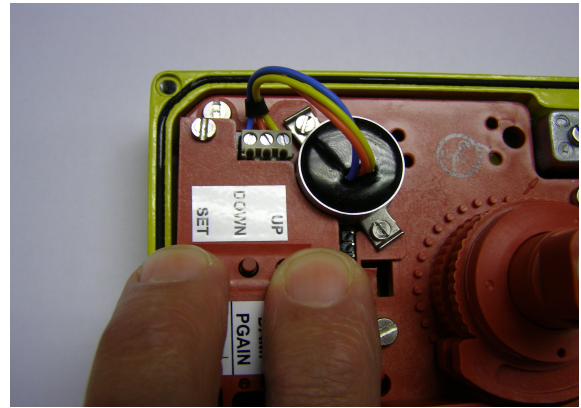
Loosen the two pot clamp screws



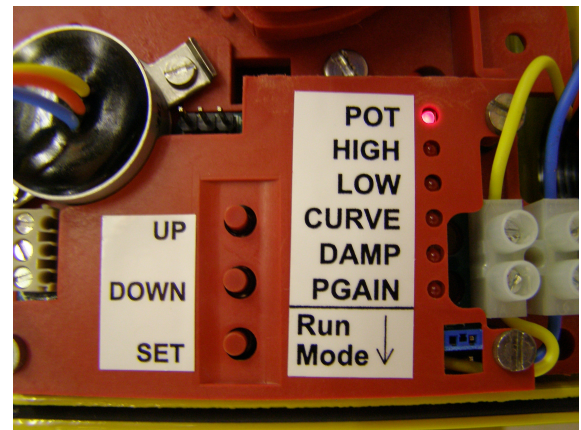
Title: Reversing the direction of movement of an EL Positioner – Visual Guide

1.9 – Press SET & UP to select the set up mode.

The PGAIN LED will light continuously.



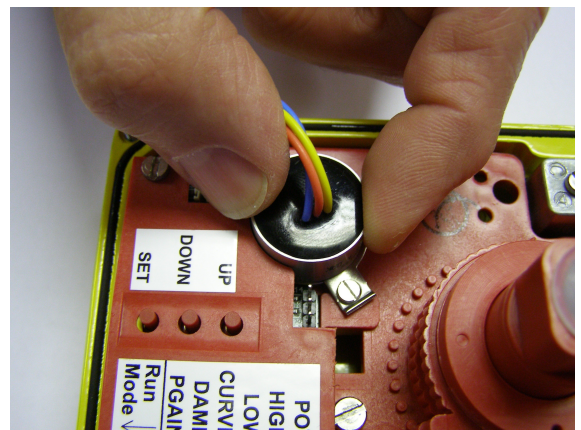
1.10 - Press the UP button until the POT LED lights continuously



1.12 - For clockwise units rotate the potentiometer anti-clockwise about quarter of a turn until the POT LED flashes.

For anti-clockwise units rotate the potentiometer clockwise about quarter of a turn until the POT LED flashes.

Re-tighten the clamp screws



1.13 - Automatic end stops finding procedure.

Set the signal to 12mA.

Press Set & UP buttons together to select the set up mode.

Press UP button until POT LED lights continuously (as shown in photo 1.10).

Press SET & UP buttons together again.

The POT LED will start to flash, the actuator should move steadily upscale from its set position. When its movement has reached the physical end stop the positioner will wait briefly and then moves the actuator down scale to the other end stop. It will then finally move quickly back to the set position.

YOU HAVE NOW COMPLETED THE PROCEDURE.

Issue A	Signed RB	Date 09/11/12	KINETROL Trading Estate Farnham Surrey England	Doc.No. TD 180 3 Page of 3
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