

# Instructions - Universal Servo Controller

(In the order of suggested programming)

## Reversing the servo:

If the controller sees a jumper on pins 1-2 of the pin header when the unit is powered up, the servo will be reversed. Turn the controller off with the pot or remove power, install a jumper on pins 1-2, apply power or turn on, then remove the jumper. The servo travel is now reversed. This procedure may be repeated to go back to normal. The servo direction state will be stored in non-volatile memory and will not be lost when powered down.

## Setting the CW limit:

CW refers to the direction you are turning the control – not the direction of the servo, which would be different depending on the direction state set above. With the unit powered on, place a jumper on pins 1-2. This will set the CW limit to maximum. Now adjust the control so that the servo is at the position you wish it to be at when the control is full CW. Remove the jumper and the new CW limit will be stored in the non-volatile memory.

## Setting the CCW limit:

Setting the CCW limit is the same as the CW limit except you will place the jumper on pins 2-3. This will set the CCW limit to maximum. Now adjust the control so that the servo is at the position you wish it to be at when the control is full CCW. Remove the jumper and the new CCW limit will be stored in the non-volatile memory.

## Slow Servo Mode:

If the controller sees a jumper on pins 2-3 of the pin header when the unit is powered up, the slow servo mode will be toggled on or off. Turn the controller off with the pot or remove power, install a jumper on pins 2-3, apply power or turn on, then remove the jumper. The slow servo mode is now toggled. This procedure may be repeated to go back to normal. The slow servo mode state will be stored in non-volatile memory and will not be lost when powered down.

## Notes:

If you get both endpoints set at the same position the unit will appear not to work. To easily restore full travel turn the pot full CW and momentarily short pins 1-2. Turn it full CCW and momentarily short pins 2-3.

The pin jumper may be stored on pins 4-5.

Remember – reverse and slow servo mode are done by having the jumper in place before power up. Limits are set by placing the jumper after power up.

