

SC106 Intelligent Motor / Servo Controller Users Guide

The SC106 controller is a microprocessor based controller specifically designed to interface with standard Radio control motor and servo controllers. It is especially useful for testing motor and servo systems without the need to use transmitters, receivers etc.

Using the SC106

Motor Controllers

Connect the SC106 to the motor controller control lead. This is the 3 wire lead that would normally be connected to the system receiver throttle channel. Note that the SC106 is channel independent so it can control devices that would normally be connected to any channel.

Before connecting a power source to the motor controller you should read the instructions that came with the controller. The motor controller can be programmed in exactly the same way as it would be in a normal configuration. The only difference is that the SC106 control knob is used instead of the transmitter throttle stick.

Figure 1 shows a typical configuration.



Figure 1

After connecting the power supply the SC106 will take approximately 5 seconds to initialise. If the motor controller fails to initialise then check that the SC106 control knob is in the correct starting position.

Servos

When controlling a servo you will need to use a 'Y' adaptor cable in order to provide the SC106 with power.

Figure 2 shows a typical configuration (The motor may not be required)

Figure 2



In this configuration the SC106 control knob position simulates the transmitter channel position. For example if you are testing a rudder servo then the SC106 control knob will simulate the position of the rudder stick on the transmitter.

Do not short circuit the output or connect to a voltage source.

This device does not contain any user serviceable parts!

Absolute Maximum Ratings

Exceeding these limits will cause permanent damage to the device

Input Voltage	5.5V
Negative Voltage	-0.5V
Input Current	22mA
Output Current	20mA
Operating Temperature	45c