

R/C Dual Servo Slower Kit

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Congratulations on purchasing the dual R/C servo slower kit. Your kit is hand assembled in the USA, and we appreciate you supporting our products.



The servo slower board includes the following features:

- No extra battery needed. Unit runs off 4.8-6V receiver battery
- Programmable slew time from 16 sec down to 0.75 sec.
- Dual rates using 2 servos
- Servos can be synchronized or 2nd servo can be ½ as fast as 1st servo
- 2nd servo channel can be reversed for different landing gear configs
- Can be used with existing receiver on an unused channel

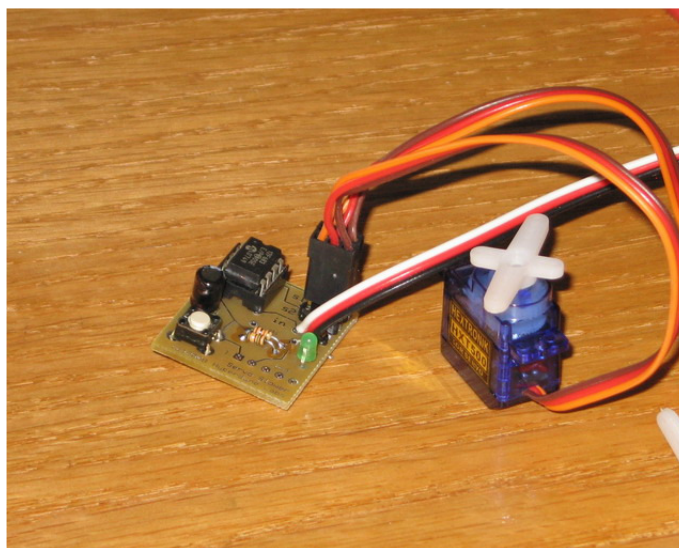
PACKAGE CONTENTS

Your RC servo slower board comes with the following:

1. Assembled RC servo board
2. Servo connector wired to board
3. Dual servo slowed 3-pin output headers

HOOKING UP YOUR BOARD

Here is a picture of the assembled board:



The two 3-pin headers are for connecting two servos to be controlled. The header with the text "s1" next to it is for servo #1. The header with the text "s2" is the second servo.

For the servo connectors, the black (or brown) wire is negative, the middle red wire is positive, and the yellow/orange (or white) wire is the servo control line. **MAKE SURE** you abide polarity when plugging the connectors into your receiver and servo. Plugging them in wrong can damage your servo and possibly the board! We are not responsible for damaged equipment due to user error. The servo control line is the one that faces the “s1” or “s2” text. The negative wire is near the edge of the board. See the above picture for a visual reference.

Servo connections

First, find a free channel on your RC receiver. You can even use an existing channel if you use a Y-cable to split the servo signal between the servo slower board and the other device on the channel. Plug in the cable from the servo slower board into your Rx channel.

Take one male servo connector and plug it into the servo slower header (abiding polarity). The top servo connector is for servo #1. The bottom servo connector is for servo #2.

PROGRAMMING SLEW RATE

Turn on your receiver power and the LED on the board will blink on and off.

To program in your slew rate for servo #1, press the small pushbutton on the servo slower board then release it. The LED will stay lit as long as you press the button. When you release it, the LED will flash once quickly after it has stored the new slew value. You can press the button again after this happens.

Every subsequent button press will increase the slew rate of the servo. The board starts at the slowest servo rate (16 sec) and increases up to 0.75 sec (after 20 total button presses). After this the cycle repeats.

When the fastest slew rate (0.75 sec) has been selected, the LED will flash 4x after the button is released to tell you that you have reached the fastest slew rate. If you press the button again, the slew rate cycles back to the slowest rate (16 sec) - and the cycle repeats with successive button presses again.

The board will remember the selected servo slew rate after power is removed. Remember, servo #2 will always move at ½ the rate of the selected slew rate for servo #1 (except for the slowest rate, in which both servos move together at the same speed) or if you synchronize the servo channels, where they both move at the same speed.

PROGRAMMING SERVO REVERSING

If you hold the pushbutton down for 1 sec and release, the 2nd servo channel will be reversed. This is convenient for gear servos that need one reversing channel.

PROGRAMMING SERVO SYNC

If you want both servo channels to slew at the exact same rate (synchronized), you can hold the button down for 2 sec and release. This makes the 2nd servo channel speed match the first.

All these settings are remembered by the board so when you power it up again you do not have to reconfigure it. If you have any problems, please contact hyperdyne@hyperdynelabs.com

NOTICE: There is no warranty on kits!! It is your responsibility to install the board. Kits cannot be returned! Be careful if you plan to use a battery source that is capable of delivering a lot of current. Contact a professional if you need assistance. Hyperdyne Labs assumes no responsibility for the misuse of this kit.