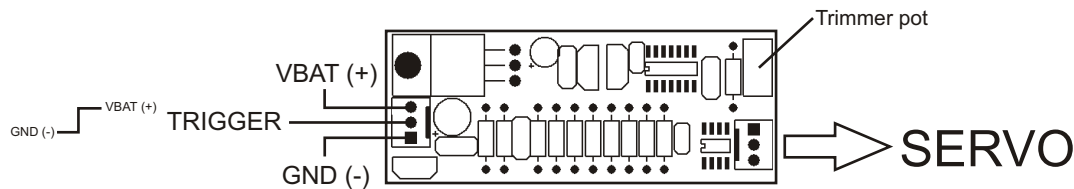


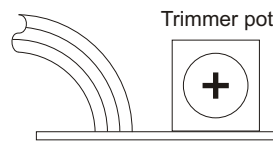
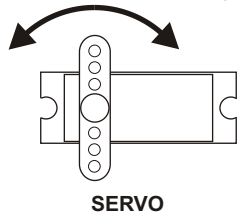
The recoil board will cycle a servo when the trigger pin is pulsed with a positive going signal (or tied high). This is designed to act as a recoil for the main cannon in an RC tank but can be used for other purposes also. Connect a regular servo (not a digital one) to the servo connector. The three other connections are for power, ground and trigger. When the trigger wire is pulsed the servo will cycle. An on board regulator will keep the servo voltage at 5 volts, the current is limited to about 1 amp. The trigger line must be pulsed for each recoil action.

The trimmer potentiometer allows adjustment of the servo travel, once set it is recommended to cover the adjustment with a small piece of tape. Note that different servos operate in different directions, some will rotate clockwise and others counterclockwise. Keep this in mind when constructing your recoil assembly.

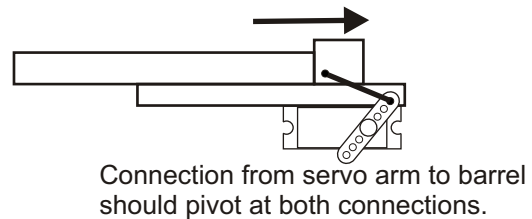
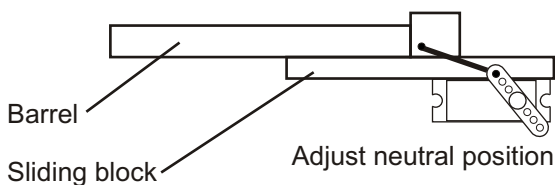
The board should be insulated against shorting, keep the bottom from touching metal or other conductive surfaces and other boards. Intended for use with 7.2 VDC. Avoid getting the board wet.



Adjust trimmer for servo arm "rest" position



Example:



The trimmer allows the servo to rest past the normal neutral position. This allows a larger angle of movement when it is triggered to recoil. You should be able to obtain the desired result by a combination of the servo arm length, trimmer adjustment and mechanical connection used to slide the barrel back.

IMPORTANT: The barrel (or device being operated) should have minimum resistance and the mechanism should operate freely. Using springs is not recommended as this will add stress to the servo.