Blue Point Engineering

Instruction I

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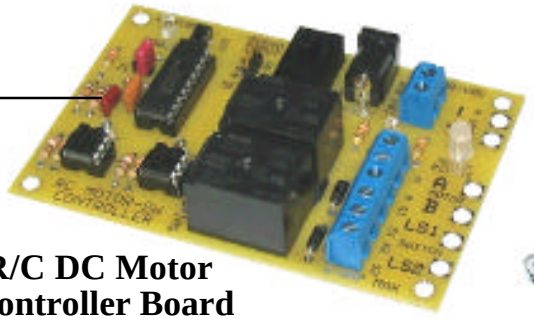
R/C Servo - DC Motor Controller



R/C DC Motor Controller Board

Linear Actuators

DC Motors

Description:
This unique board allows the user activation control of a connected DC Motor in the ClockWise (CW) or CounterClockWise (CCW) rotation or a DC Linear Motor in the IN (I) or OUT (O) Motion operation by using a standard R/C Transmitter Joystick / Receiver or PWM Signal (1ms-2ms). There are 2 modes of operation that are selected by the placement of **Jumper J1** . The board is powered by the +5V coming from the R/C Receiver servo connector directly. The motor is powered by it's own connected power supply. A Tri-Color LED inducates the rotation direction of the connected motor, Two on-board LED's indicate the control status of the board. On-board Safety Limit Switch connections for limit switch add-on to safely stop the motor beyond its limits.

Mode 1: Pulse Mode (J1 OFF)
This mode is selected by **removing jumper J1** When the joystick is moved to the left, Relay 1 activates and stays activated as long as the joystick stays in the left position. motor will start rotating. When the joystick returns to the center position, the relay deactivates and the motor stops rotation.

When the joystick is moved to the right, Relay 2 is activated and stays activated as long as the joystick stays in the right position, motor will start rotating opposite direction. When the joystick returns to the center position, the relay deactivates and motor stops rotation.

Mode 2: Toggle Mode (J1 ON)
This mode is selected by placing the **jumper** on **J1**. When the joystick is moved to the left, Relay 1 is activated, Motor will start rotating and stays on even when the joystick is returned to the center position. The relay is deactivated only (toggled off) by moving the joystick to the left a second time. Motor will stop rotating.

When the joystick is moved to the right, Relay 2 is activated (toggled on) motor stays on and start rotating opposite directionon even when the joystick is returned to the center position. The relay is only deactivated (toggled off) by moving the joystick to the right a second time, motor will stop rotating.

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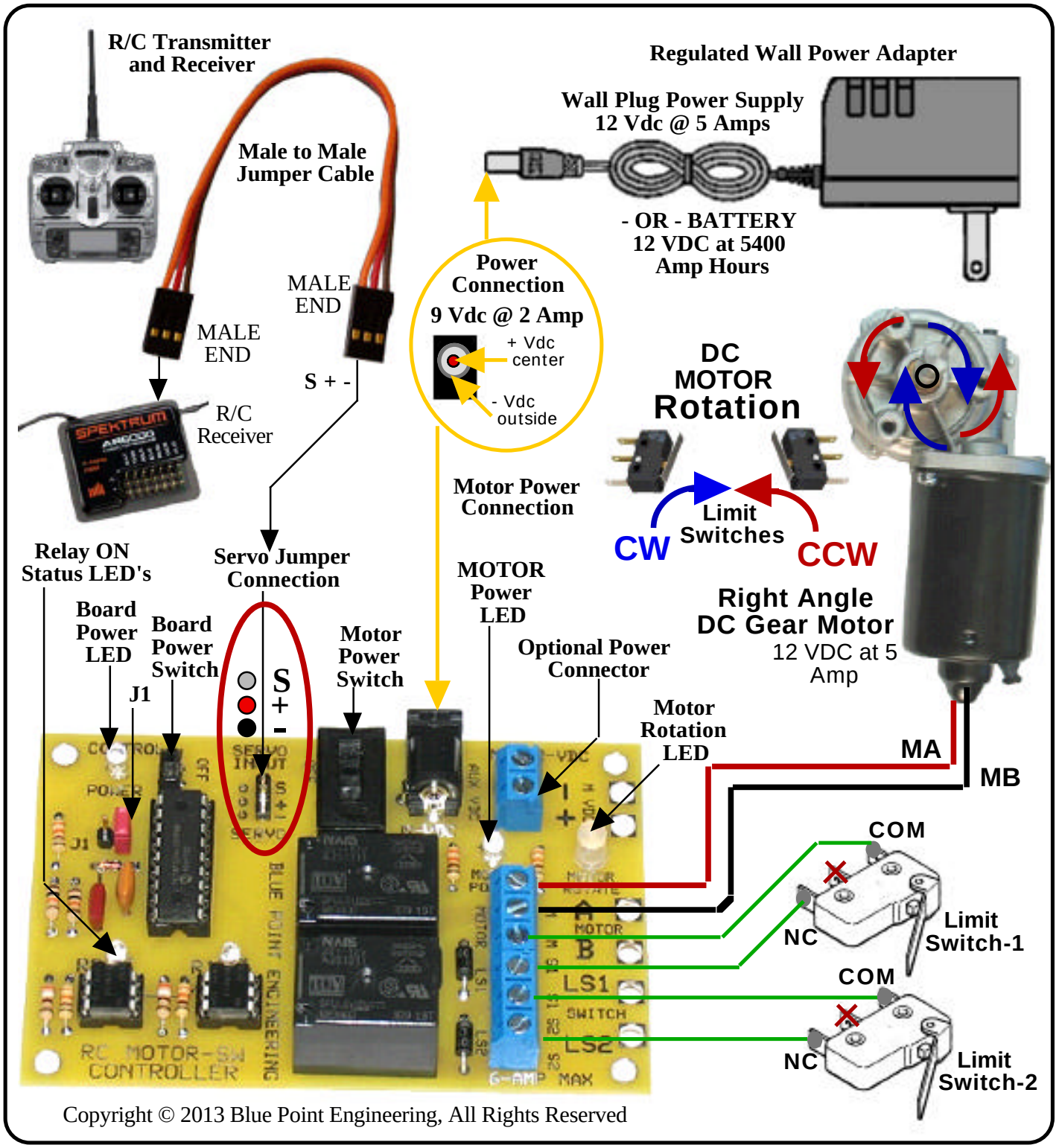

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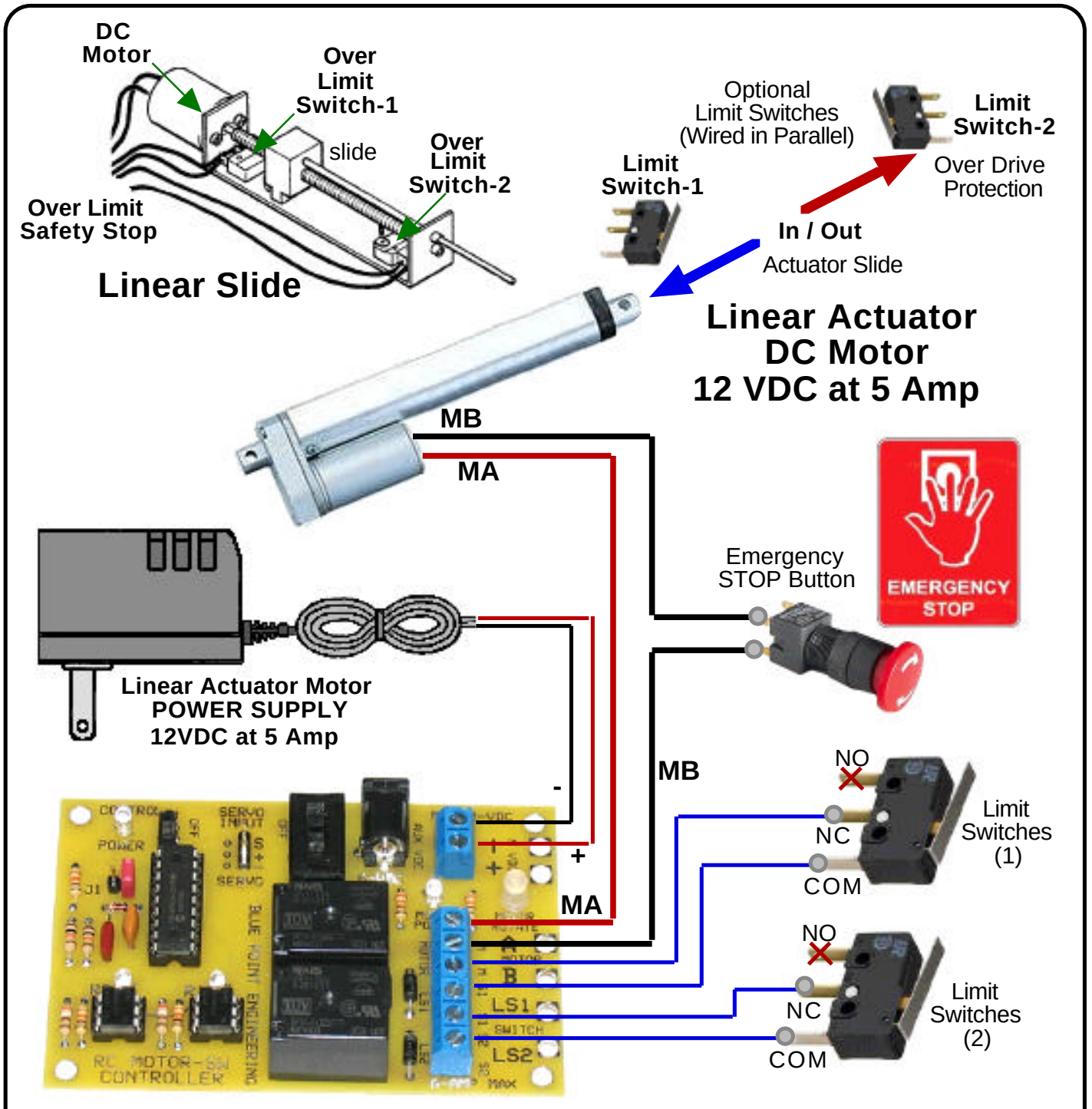
R/C Servo - Linear Actuator Control



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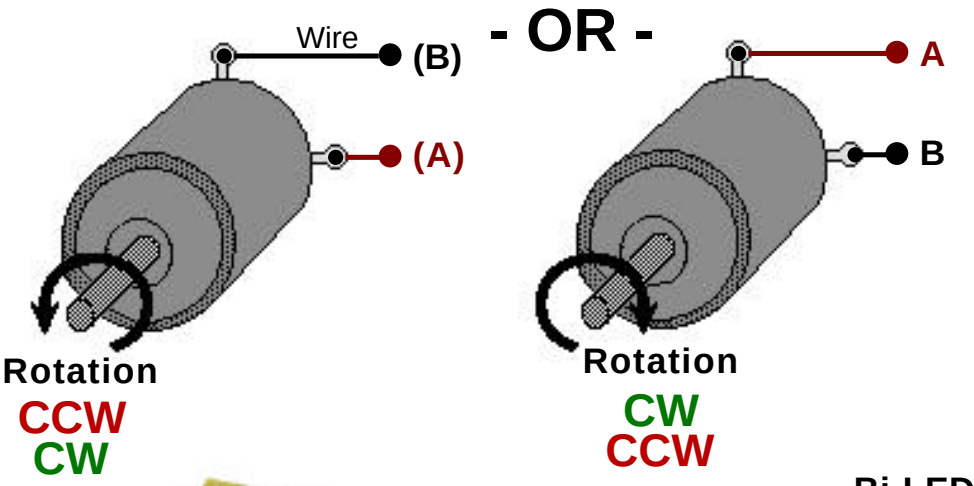
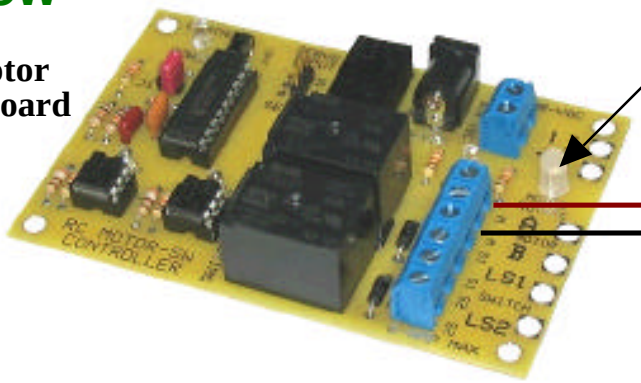
R/C Servo - DC Motor Controller

HINTS:

Switch Motor Wires A / B to Change Direction if motor is rotating in opposite direction needed





Add Emergency STOP Button for extra safety

EMERGENCY STOP BUTTON SWITCH

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