Blue Point Engineering

Instruction I

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1-CH Servo Driver Board

RX-8 RF System

Overview

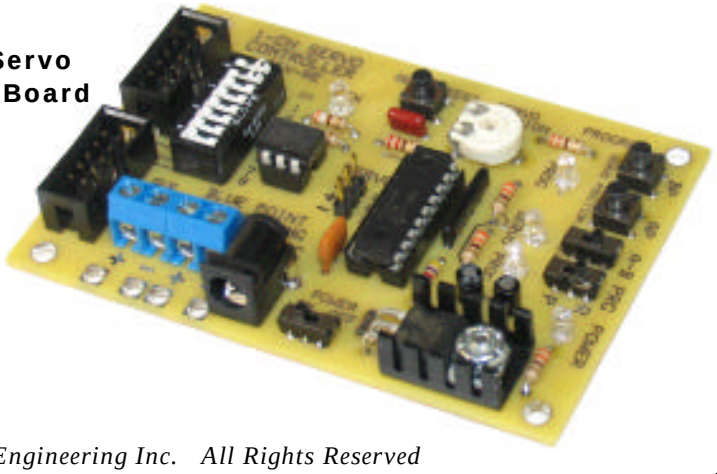
This board allows the control of a single servo motor connected to the 8-Ch RF receiver board and operated by the hand held 8-Ch RF Transmitter.
The limits of the servo movement can be set and stored in non-volatile memory. When triggered by the Remote Transmitter / Receiver Board or pressing the Servo Movement Test Button, the servo will move from one limit (position A) to the other limit (position B) (There is a switch that will reverse the operation, B to A) and then return to the starting position when the RF Transmitter or test button is released.

Programming / Operation:
Connect the board to a servo and power supply. Power ON the board. The Red Power LED will light. Switch the **PRG** slide switch from Run to Program (**P**) (**R-P**). A Green LED just above the switch will light. Using a small screwdriver, adjust the on board **Servo Position** Potentiometer until the servo motor has moved to Position A location. The motor will move in synch with the potentiometer as you rotate it. Once the servo is in position, press the **AP** (A position) button and the Red LED (**PROG**) on the board will flash 3 times indicating that the servo A position was saved to memory. Repeat this procedure for Position B (**BP**). Place the board back in Run (**R**) Mode (**P-R**) and the servo will move to programmed Position A. Test the servo movement by pressing the 0n-board **Servo Test** button, the servo will move from Position A to Position B and then return to Position A again when the test button is released. If you want to reverse the movement, move from B to A instead of A to B, switch the **A-B** slide switch to change positions B to A. The yellow LED (**Servo**) near the slide switch will light and the servo will move to Position B. Now when the board is activated, the servo will now move from Position B to Position A.

Connect the ribbon cable from the RF8 Receiver board to the first connector (RTX) on the board.
If an additional board is to be controlled by the RF receiver connect it to the second ribbon connector (RTX OUT).
Set the switches on the address switch block to all OFF. Determine which channel will be used on the RF hand held (1-8) to operate the 1-Ch board and then activate the switch on the corresponding channel of the address switch block to match the RF hand held transmitter channel to be used to operate the 1-Ch servo board. Every time that the RF Hand held selected channel is activated the 1-Ch Servo should move positions.

Ribbon Connectors

1-Ch Servo Driver Board



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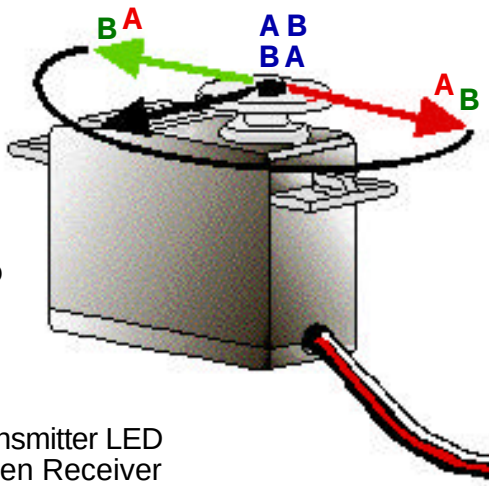
1-CH Servo Driver Board

RX-8 RF System

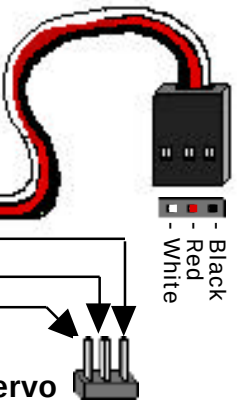
Set - Up / Components



Standard R/C Servo

Caution

Check Correct Servo Connection



White- **Servo (S)**

Red- **Servo (+)**

Black- **Servo (-)**

Servo Connector

RX Transmitter LED (ON when Receiver board Activates)

Channel Address Block (1-8)

OFF ON

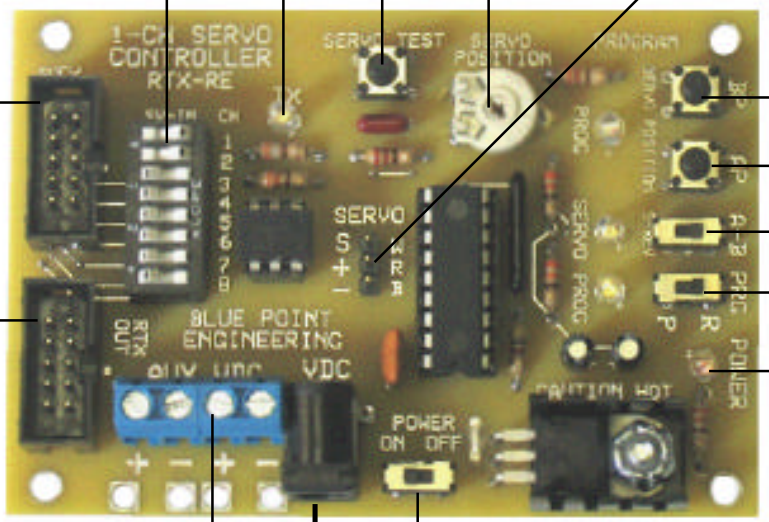
Servo Test Button

Servo Position Potentiometer

Ribbon Connectors

RTX — **From RF Receiver Board**

RTX OUT — **To next Add-on Board**



Programming

B Position Button

A Position Button

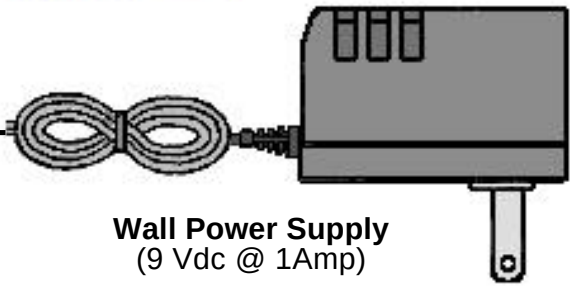
A-B Servo Reversal Switch

Program or Run Switch

Power LED

Optional AUX Power Out **9-VDC**

On/Off Switch



Wall Power Supply
(9 Vdc @ 1Amp)

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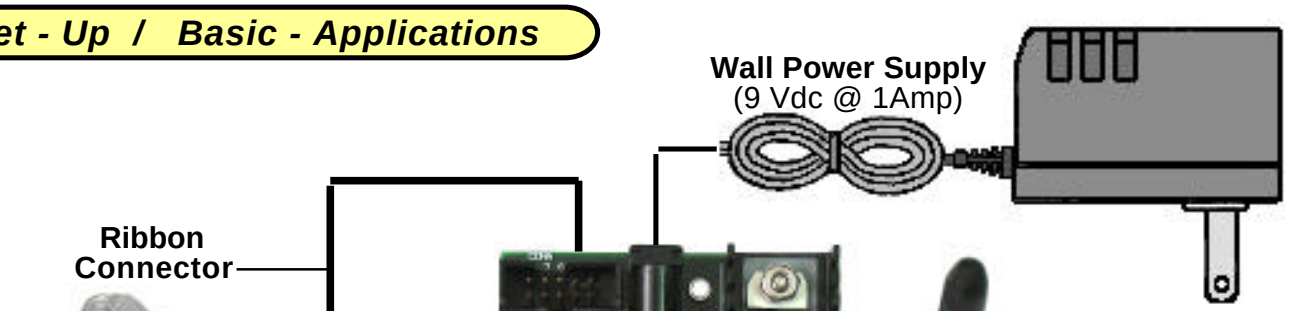
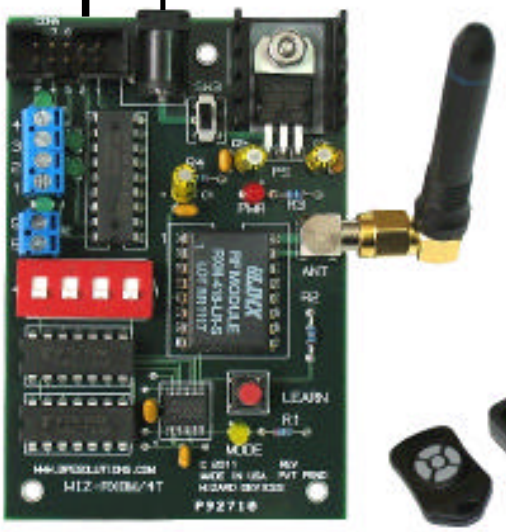
RX-8 RF System

Set - Up / Basic - Applications

Wall Power Supply
(9 Vdc @ 1Amp)

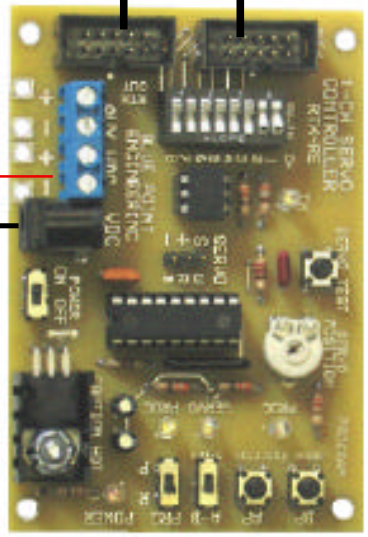


Ribbon Connector

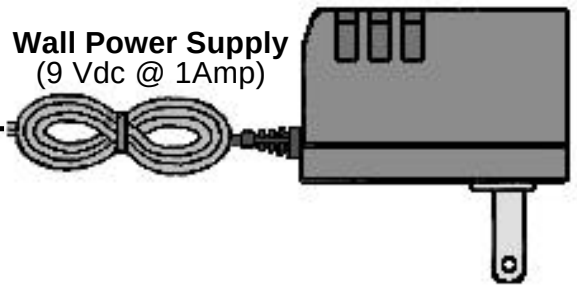


RF Receiver 8-Ch

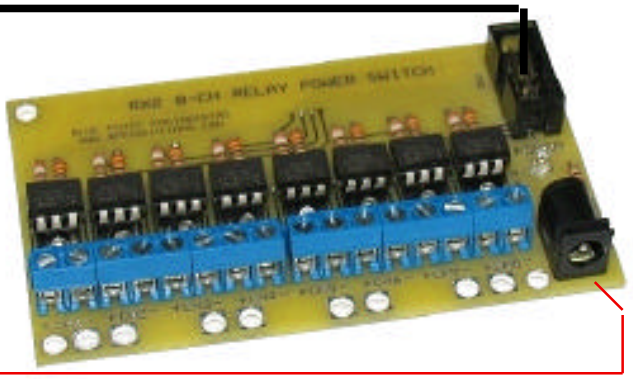
RF Transmitters
Key Fob / Short- Long Range



Wall Power Supply
(9 Vdc @ 1Amp)



Ribbon Connector



Optional RF Add-On Boards

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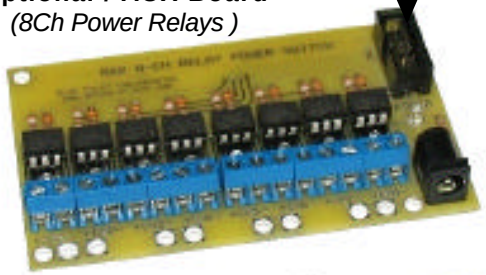
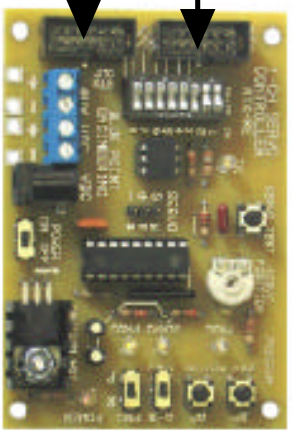
RX-8/4 RF System Receiver Board WIZ-RX8M/4T

Set - Up / AUX Board Applications

Plug-IN

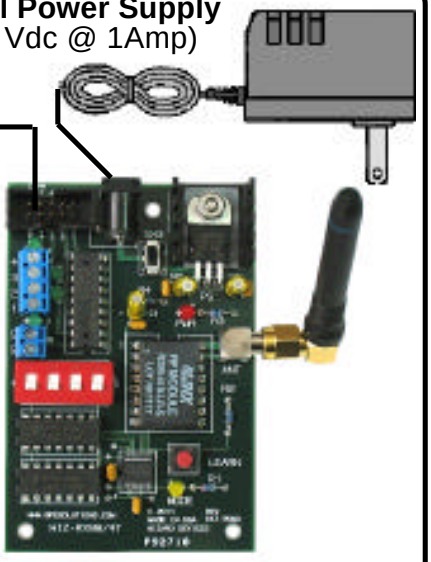


Optional / AUX Board
(8Ch Power Relays)



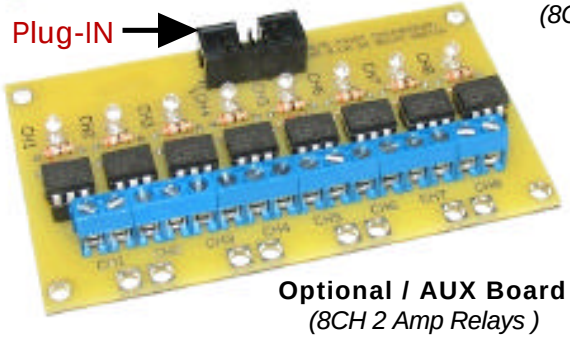
Optional / 1-Ch Servo Driver Board
(8Ch Power Relays)

Wall Power Supply
(9 Vdc @ 1Amp)



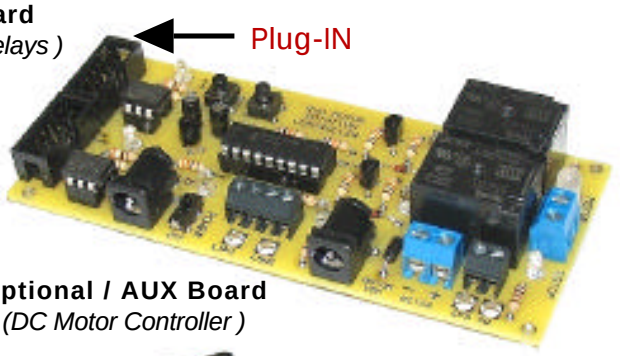
WIZ-RX8M/4T Board

Plug-IN



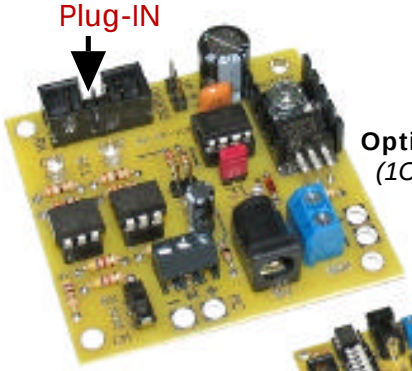
Optional / AUX Board
(8CH 2 Amp Relays)

Plug-IN

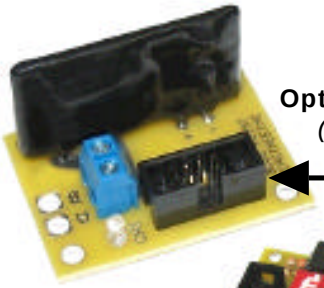


Optional / AUX Board
(DC Motor Controller)

Plug-IN



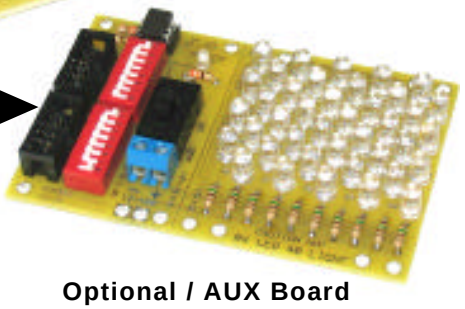
Optional / AUX Board
(1Ch Servo Controller)



Optional / AUX Board
(1Ch 5 Amp Relay)

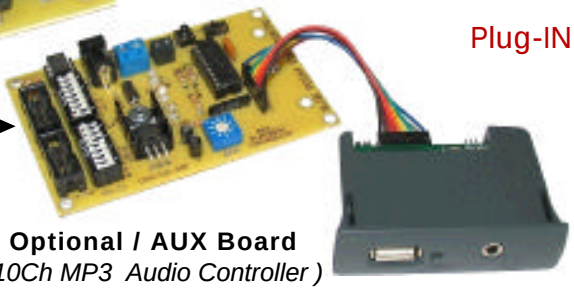
Plug-IN

Plug-IN



Optional / AUX Board
(40- LED Light Effects Controller)

Plug-IN



Optional / AUX Board
(10Ch MP3 Audio Controller)

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