

## Anderson Power Pole Distribution Box

### Bill of Materials

Item	Designator	Part Number	Quantity
Connector Pin	J1,J2,J3,J4,J5	1317G13	10
Resistor 37k	R1		1
Resistor 15k	R2,R3,R4,R5		4
LED Green	D1	WP7113LZGCK	1
LED Red	D2,D3,D4,D5	WP7113SURCK	4
Fuse Holder	F1,F2,F3,F4,F5	3557-2	5
PCB		Custom, JLCPCB	1
Black Power Pole Housing			5
Red Power Pole Housing			5
3D printed Housing		Custom	1
Fuses		Automotive	5
4X3/8 sheet metal screws			4

### Assembly Instructions

- 1) Insert and solder the fuse holders. Note that the copper traces are thick and the fuse holder pins are massive, so a lot of heat is required to get a good solder connection
- 2) Insert the LEDs in the board and place the PCB on the housing lid. Align the LEDs so they seat in the holes for the LEDs. This places the leads in the correct position. Solder the LED leads. When inserting the LEDs, the long lead goes towards the center of the board
- 3) Insert and solder the resistors.
- 4) Insert the pins in the power pole housings.
- 5) Connect the power pole housings together. Note how the pins are offset in the housing and note how they mount on the PCB. The red housing should go towards the center of the board.
- 6) Solder the power pole housings to the PCB
- 7) Insert the automotive fuses into the PCB
- 8) Assemble the PCB into the housing and secure the lid and base with #4X3/8 screws