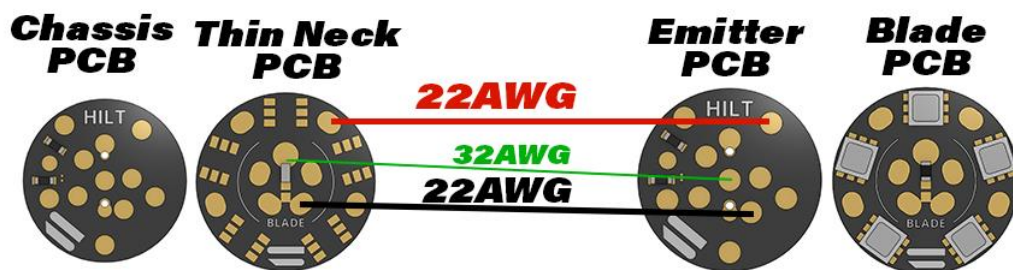
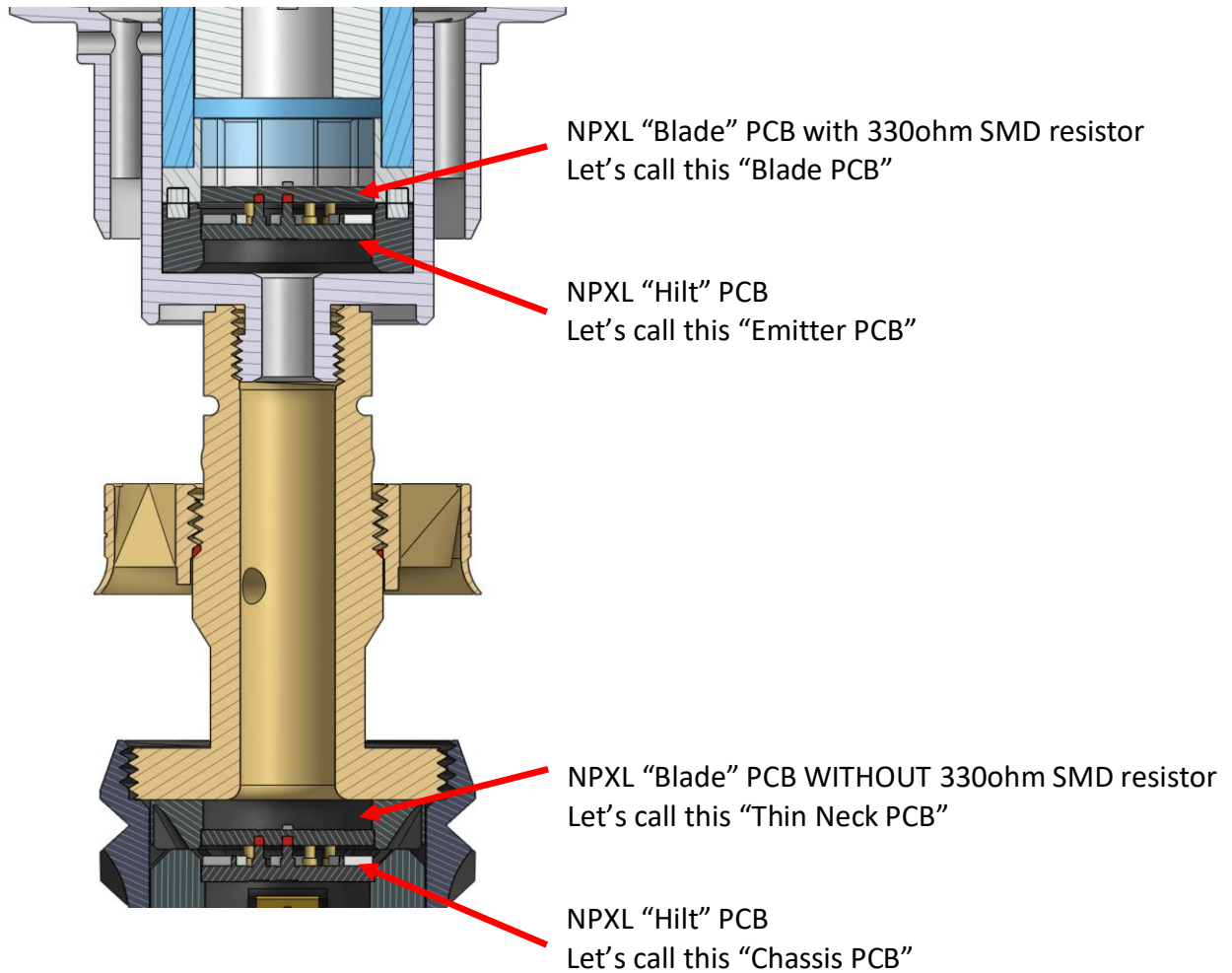

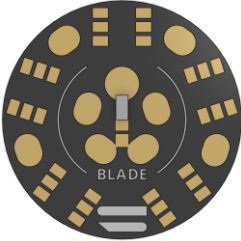

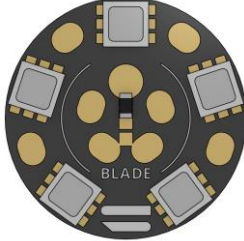


Shtok NPXL thin neck chassis connector demonstration


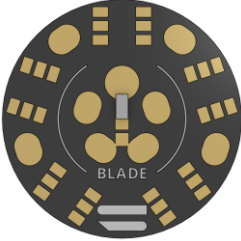

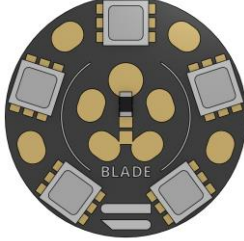
by Charlie Rayner



Layout 1: Blade LEDs ONLY


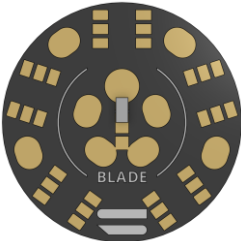

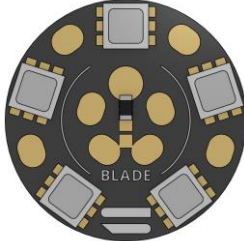
Hilt PCB	Thin Neck PCB	Emitter PCB	Blade PCB
 <p>1. 330ohm resistor on R1 2. No Jumper 3. Data lead wired to D1 or D2 (V1 LAYOUT)</p>	 <p>1. No resistor on Data pads 2. Solder bridge between data pads 3. No LEDs on this PCB</p>	 <p>1. 330ohm resistor on R1 2. No Jumper 3. Data lead wired to D1 or D2 (V1 LAYOUT)</p>	 <p>1. 330ohm resistor on Data pads</p>

Layout 2: All LEDs in PARALLEL


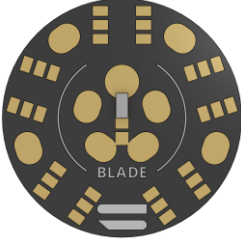

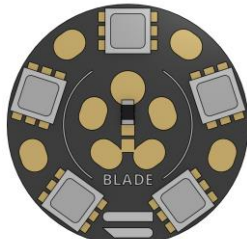
Hilt PCB	Thin Neck PCB	Emitter PCB	Blade PCB
 <p>1. 330ohm resistor on R1 AND R2 2. No Jumper 3. Data lead wired to D2 (V2 LAYOUT)</p>	 <p>1. No resistor on Data pads 2. Solder bridge between data pads 3. No LEDs on this PCB</p>	 <p>1. 330ohm resistor on R1 AND R2 2. No Jumper 3. Data lead wired to D2 (V2 LAYOUT)</p>	 <p>1. 330ohm resistor on Data pads</p>

Layout 3: All LEDs in SERIES


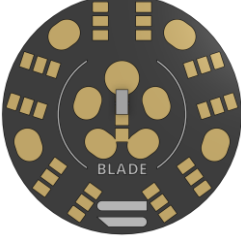

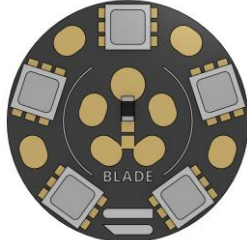
(Add an additional 10 LEDs to your config file)

Hilt PCB	Thin Neck PCB	Emitter PCB	Blade PCB
 <p>1. 330ohm resistor on R2 2. Jumper on J pads 3. Data lead wired to D2 (V3 LAYOUT)</p>	 <p>1. No resistor on Data pads 2. Solder bridge between data pads 3. No LEDs on this PCB</p>	 <p>1. 330ohm resistor on R2 2. Jumper on J pads 3. Data lead wired to D2 (V3 LAYOUT)</p>	 <p>1. 330ohm resistor on Data pads</p>


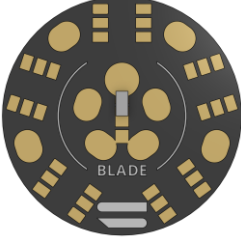

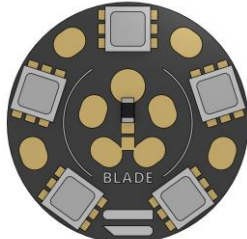
Layout 4: Chassis and Emitter in PARALLEL but Emitter and Blade in SERIES
(Add an additional 5 LEDs to your config file)

Hilt PCB	Thin Neck PCB	Emitter PCB	Blade PCB
 <ol style="list-style-type: none"> 1. 330ohm resistor on R1 AND R2 2. No Jumper (V2 LAYOUT) 	 <ol style="list-style-type: none"> 1. No resistor on Data pads 2. Solder bridge between data pads 3. No LEDs on this PCB 	 <ol style="list-style-type: none"> 1. 330ohm resistor on R2 2. Jumper on J pads 3. Data lead wired to D2 (V3 LAYOUT) 	 <ol style="list-style-type: none"> 1. 330ohm resistor on Data pads


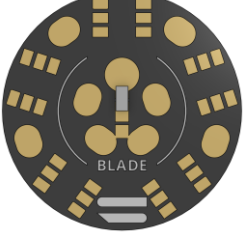

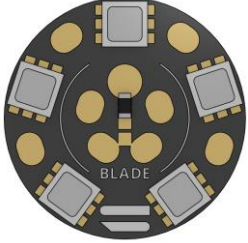
Layout 5: No Chassis LEDs but Emitter and Blade in PARALLEL

Hilt PCB	Thin Neck PCB	Emitter PCB	Blade PCB
 <ol style="list-style-type: none"> 1. 330ohm resistor on R1 2. No Jumper 3. Data lead wired to D1 or D2 (V1 LAYOUT) 	 <ol style="list-style-type: none"> 1. No resistor on Data pads 2. Solder bridge between data pads 3. No LEDs on this PCB 	 <ol style="list-style-type: none"> 1. 330ohm resistor on R1 AND R2 2. No Jumper 3. Data lead wired to D2 (V2 LAYOUT) 	 <ol style="list-style-type: none"> 1. 330ohm resistor on Data pads

Layout 6: No Chassis LEDs but Emitter and Blade in SERIES
(Add an additional 5 LEDs to your config file)


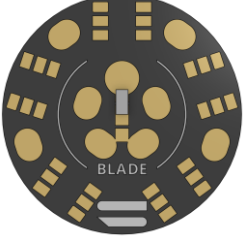

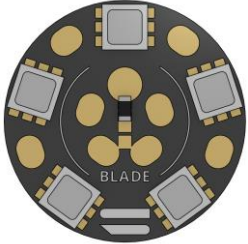
Hilt PCB	Thin Neck PCB	Emitter PCB	Blade PCB
 <ol style="list-style-type: none"> 1. 330ohm resistor on R1 2. No Jumper 3. Data lead wired to D1 or D2 (V1 LAYOUT) 	 <ol style="list-style-type: none"> 1. No resistor on Data pads 2. Solder bridge between data pads 3. No LEDs on this PCB 	 <ol style="list-style-type: none"> 1. 330ohm resistor on R2 2. Jumper on J pads 3. Data lead wired to D2 (V3 LAYOUT) 	 <ol style="list-style-type: none"> 1. 330ohm resistor on Data pads

Layout 7: No Emitter LEDs but Chassis and Blade in PARALLEL


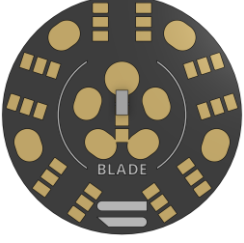

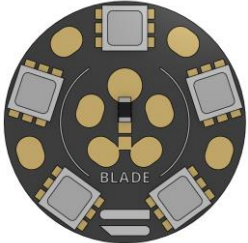
Hilt PCB	Thin Neck PCB	Emitter PCB	Blade PCB
 <p>1. 330ohm resistor on R1 AND R2 2. No Jumper 3. Data lead wired to D2 (V2 LAYOUT)</p>	 <p>1. No resistor on Data pads 2. Solder bridge between data pads 3. No LEDs on this PCB</p>	 <p>1. 330ohm resistor on R1 2. No Jumper 3. Data lead wired to D1 or D2 (V1 LAYOUT)</p>	 <p>1. 330ohm resistor on Data pads</p>

Layout 8: No Emitter LEDs but Chassis and Blade in SERIES


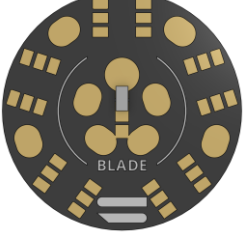

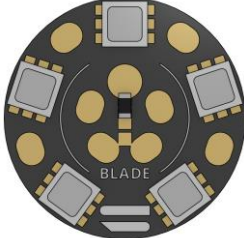
(Add an additional 5 LEDs to your config file)

Hilt PCB	Thin Neck PCB	Emitter PCB	Blade PCB
 <p>1. 330ohm resistor on R2 2. Jumper on J pads 3. Data lead wired to D2 (V3 LAYOUT)</p>	 <p>1. No resistor on Data pads 2. Solder bridge between data pads 3. No LEDs on this PCB</p>	 <p>1. 330ohm resistor on R1 2. No Jumper 3. Data lead wired to D1 or D2 (V1 LAYOUT)</p>	 <p>1. 330ohm resistor on Data pads</p>

Layout 9: Chassis LEDs Independent but Emitter and Blade in PARALLEL

Hilt PCB	Thin Neck PCB	Emitter PCB	Blade PCB
 <p>1. 330ohm resistor on R2 2. No Jumper 3. 2 Data leads wired to D1 and D2 (V4 LAYOUT)</p>	 <p>1. No resistor on Data pads 2. Solder bridge between data pads 3. No LEDs on this PCB</p>	 <p>1. 330ohm resistor on R1 AND R2 2. No Jumper 3. Data lead wired to D2 (V2 LAYOUT)</p>	 <p>1. 330ohm resistor on Data pads</p>

Layout 10: Chassis LEDs Independent but Emitter and Blade in SERIES

Hilt PCB	Thin Neck PCB	Emitter PCB	Blade PCB
 <ol style="list-style-type: none"> 1. 330ohm resistor on R2 2. No Jumper 3. 2 Data leads wired to D1 and D2 (V4 LAYOUT) 	 <ol style="list-style-type: none"> 1. No resistor on Data pads 2. Solder bridge between data pads 3. No LEDs on this PCB 	 <ol style="list-style-type: none"> 1. 330ohm resistor on R2 2. Jumper on J pads 3. Data lead wired to D2 (V3 LAYOUT) 	 <ol style="list-style-type: none"> 1. 330ohm resistor on Data pads

Blade ID and Blade detect is not possible with this layout, unless you detect the chassis itself.
Chassis, emitter and blade LEDs being independent is not possible either, unless using sub blades.