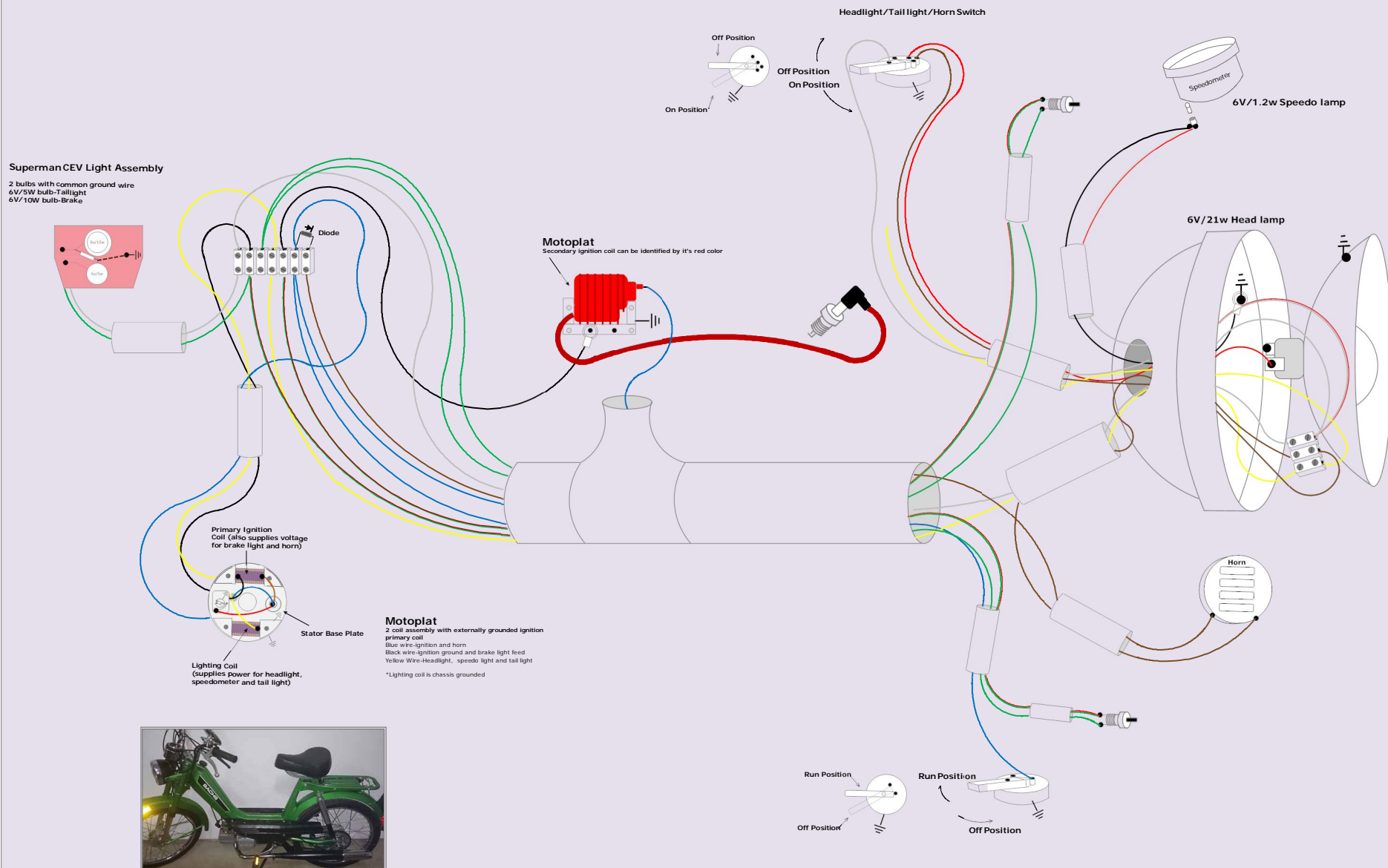


1978 Sachs Westlake (Sachs 504-1D Engine) Moped



1978 Sachs Westlake (Sachs 504-1D Engine) Moped

Brake Light Circuit

The brake lights work by removing the ground from the hot side of the circuit. The brakes are wired hot directly to the terminal block but wires coming from the brake light switches keep the circuit grounded preventing the light from working. When the levers are squeezed, the switch(es) interrupt the grounding of the circuit and allow the light to illuminate.

(Sachs uses a 6.8 ohm/10 watt resistor between the green brake feed wire and the ground. If this resistor is bad or missing, the engine will stop if the bulb is burned out and the brakes are squeezed.

Superman CEV Light Assembly

2 bulbs with common ground wire
6V/5W bulb-Tail-light
6V/10W bulb-Brake

Tail Light Circuit

The tail light gets its power from the headlight circuit. At the LH switch, the gray wire sends power all the way back to the tail light.

Ignition Circuit

The Westlake uses a Motoplat Ignition instead of the much more common Bosch. The magneto is a 2 coil type with the ignition primary coil being externally grounded. The blue wire is the feed to the secondary ignition coil and the black wire serves as the ground feed and also is the voltage supply for the brake lights. The horn also gets its power from the blue ignition lead.

The OFF/Run switch on the RH side of the handlebar has a single lead going to it from the ignition. The switch itself is grounded to the chassis through the clamp. When the switch is placed in the off position, it grounds out the secondary coil and prevents the ignition from firing.

Motoplat

Secondary ignition coil can be identified by it's red color

Headlight/Tail Light/Horn Switch

LH Brake Light Switch
Switch is a N/O type (normally open) in it's relaxed state (Position when brake lever is squeezed)

Headlight Circuit

The headlight circuit receives its power from the bottom coil in the magneto assembly. The yellow wire is fed up to the LH switch and is distributed to the headlight, tail light and speedometer light.

6V/21w Head lamp

Horn Circuit

The horn receives its current from the blue ignition wire. Pressing the horn button on the LH switch completes the ground and the horn makes noise. There is a diode on the terminal strip that prevent current flowing back through to the ignition and grounding out that circuit.

RH Brake Light Switch
Switch is a N/O type (normally open) in it's relaxed state (Position when brake lever is squeezed)

Run Position
Off Position

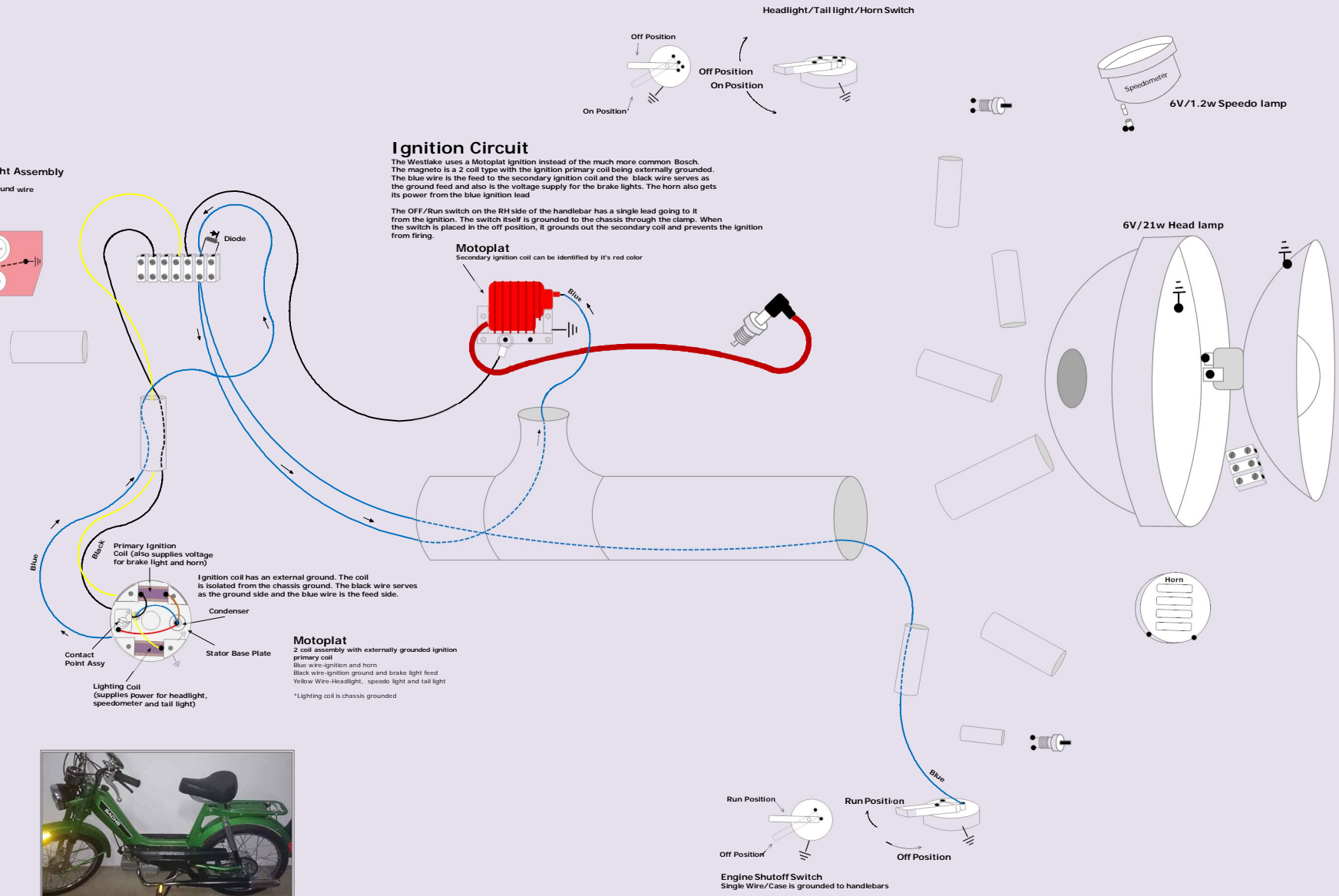
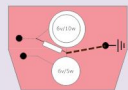
Engine Shutoff Switch
Single Wire/Case is grounded to handlebars



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Superman CEV Light Assembly

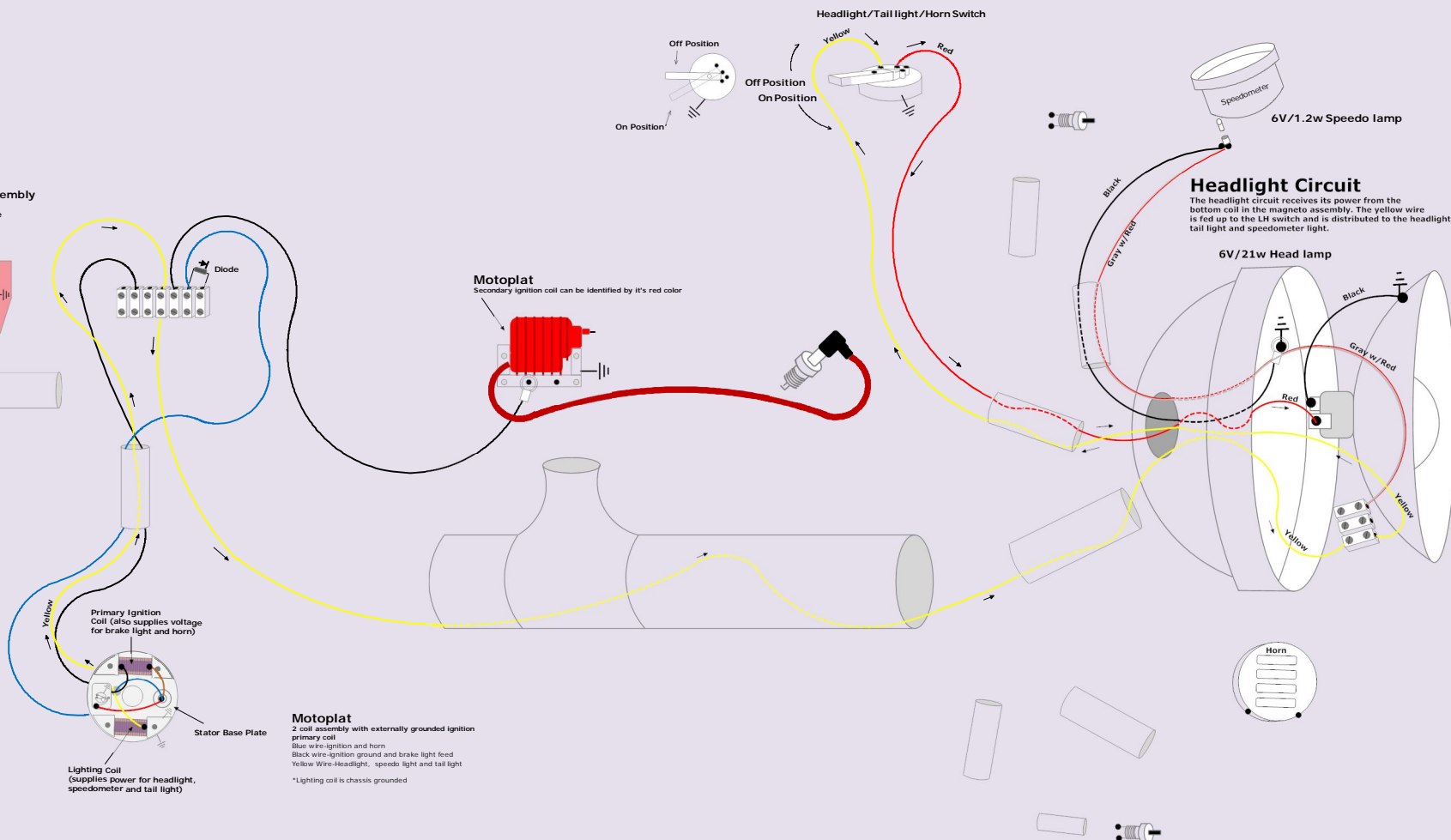
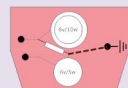
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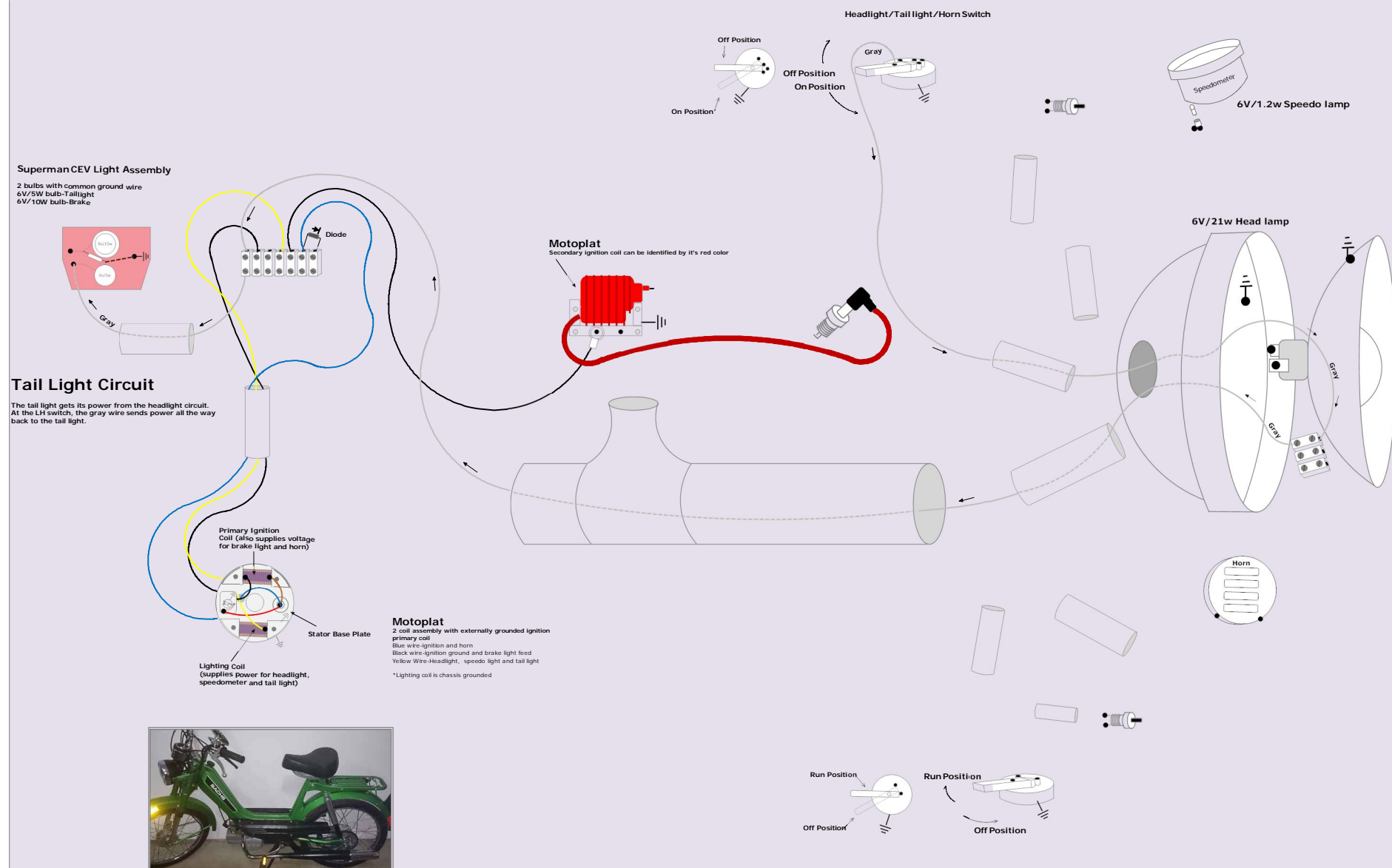
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Superman CEV Light Assembly

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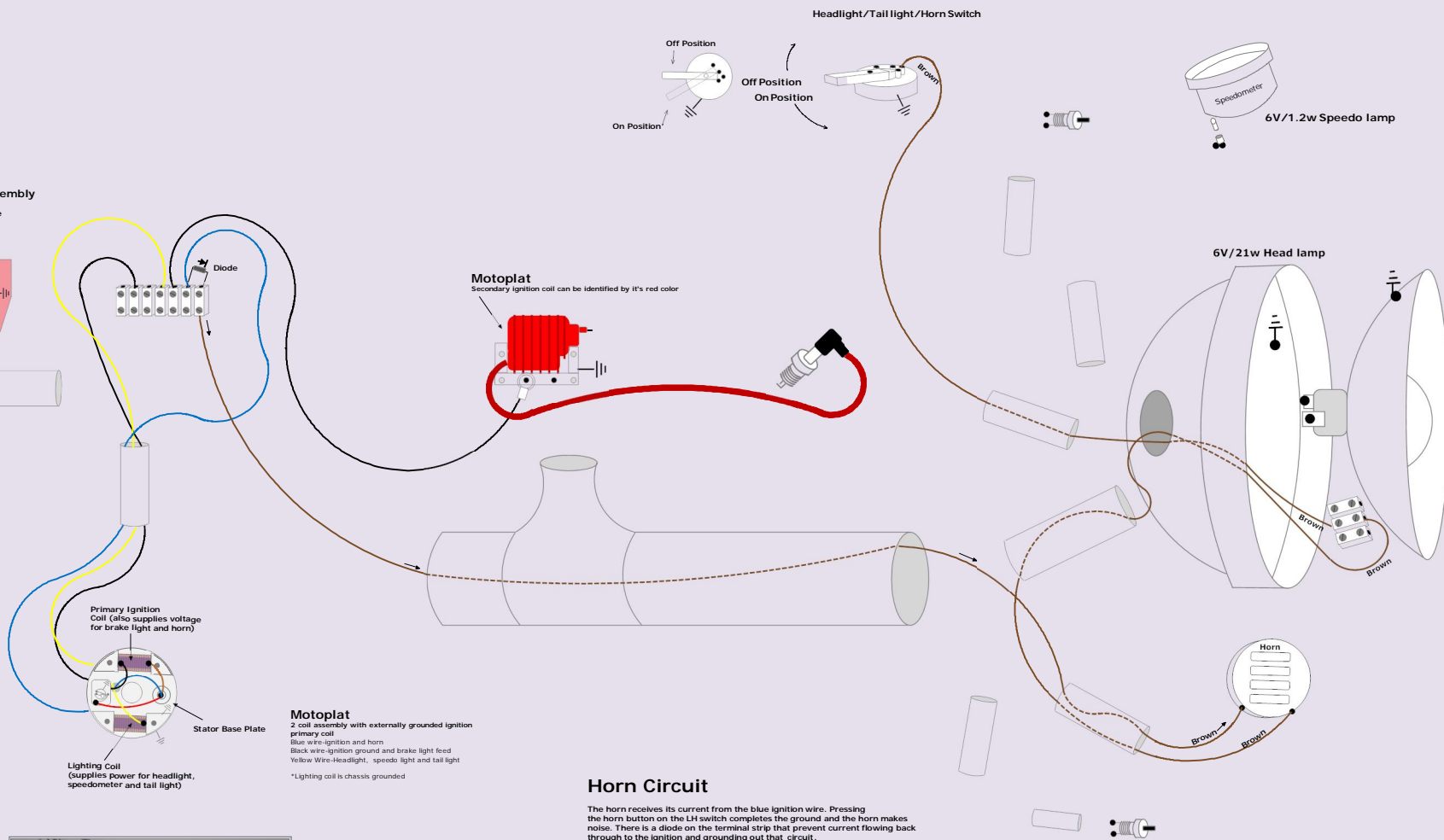
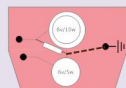
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Superman CEV Light Assembly

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