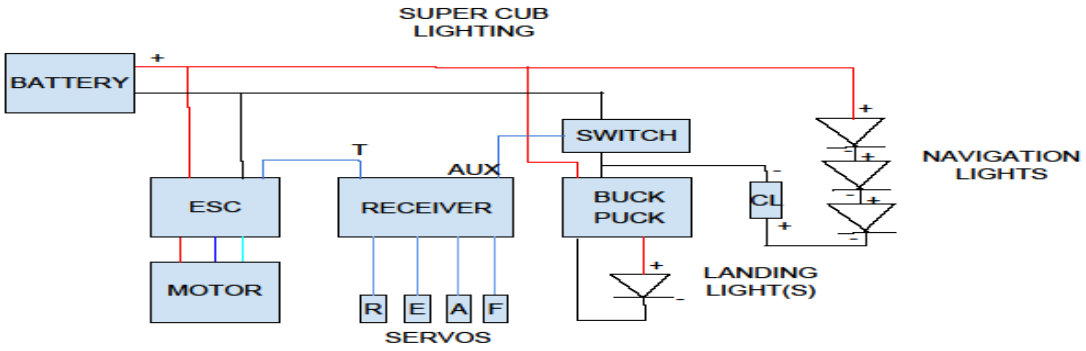
Super Cub LED Lighting System Diagram

By George Wilson



LED & Power Supply Source Links

Avago Moonstone LED (Avago: http://www.avagotech.com/pages/en/leds/moonstone_high_power_leds/moonstone_led_module/)

Mouser Electronics http://www.mouser.com/Search/Refine.aspx?Keyword=moonstone
Or Digikey, Newark Electronics, Allied Electronics

LED Drivers

1) LED Dynamics Buck Puck http://www.luxdrive.com/products/buckpuck-3021-3023-led-driver/ (High Power)
2) LED Dynamics Dyna-Ohm http://www.luxdrive.com/products/dynaohm/ (For T 1-3/4 LEDs-Nav Lights)

Notes:

3) LEDs are current driven devices. You must provide regulated power or a current limiting resistor in series with the LED. Values must be calculated using Ohm's Law. (see Note 10)
4) LED Dynamics **Buck Puck** http://www.luxdrive.com/products/buckpuck-3021-3023-led-driver/
5) LED Dynamics **Dyna-Ohm** http://www.luxdrive.com/products/dynaohm/
6) Only string a maximum of three (3) LEDs in series. If you need more contact George Wilson to discuss.
7) High Power LEDs need a heat sink, especially if you are going to drive them very hard. See manufacturers application notes. (T 1 ¾ LEDs do not need a heat sink.
8) You should use thermal epoxy or heat sink compound with some type of clamping to hold the LED to the heat sink.
9) When shopping for T-1 ¾ LEDs, look for the highest **mcd** rating.
10) When shopping for High Power LEDs look for the highest **lm** rating.
    a. Ohms Law: E=IR Where E=Voltage, I=Current and R=Resistance. Also I=E/R R=E/I
11) When buying Moonstones, buy the type where the base is isolated.

Moonstone
Landing Light 350 ma and up
Always buy the 750 ma rated.

T-13/4 (5mm) Low Power LED for Navigation Lights Red, Green, White
30 to 50 ma