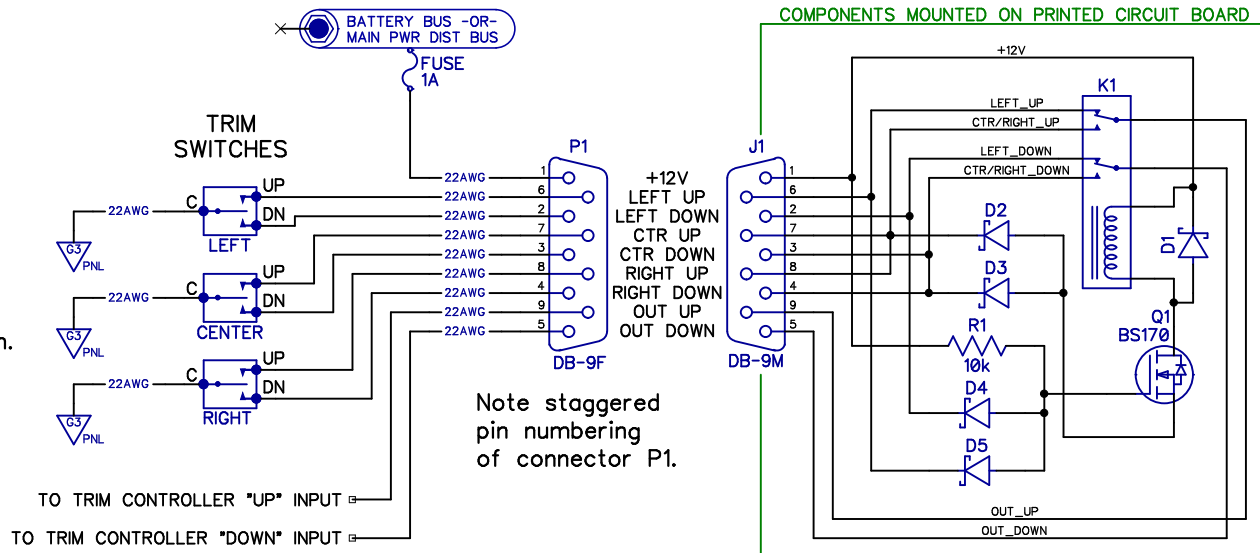


SCHEMATIC & WIRING DIAGRAM:

The center trim switch input is provided to accommodate aircraft like the Kitfox which are designed with a single center console rocker switch for elevator trim. If the center position is not used, leave pins 3 and 7 unconnected.



Relay K1 is shown in the relaxed state with 12 volts applied to J1 pin 1 and no trim switch inputs.

When center/right trim is commanded, K1 is activated and trim commands pass through the relay's normally open contacts.

When left trim is commanded, Q1 is turned off, K1 cannot activate and trim commands pass through the relay's normally closed contacts.

NOTES:

1. This circuit provides priority to inputs from the left trim switches only. It does not prevent simultaneous "up" and "down" inputs from the center and right trim switches. The installer must determine before flight that such an opposing input condition does not produce unsafe operation of the pitch trim system.
2. All switch inputs to this module should pull to ground. Both outputs from this module pull to ground. Do not connect its outputs directly to a trim motor; it is intended to send commands to a relay deck or a trim controller such as the TCW Technologies Safety-Trim unit. See next page for TCW Technologies Safety-Trim wiring diagram.
3. If the center trim switch is not installed, do not populate pins 3 or 7 in connector P1.
4. Circuit board available at: https://oshpark.com/shared_projects/msbOHkGu (the character between b & H is a capital o).
5. Bill of materials (Digi-Key parts list): <https://www.digikey.com/en/mylists/list/MWE6AGTBZJ> / Note two options for P1 sockets: stamped-and-formed or machine turned. Order only one type, as you prefer or as your available crimp tooling dictates. If any item is out of stock, click the "+" symbol on the left to see alternate part options.

| | |
|--|------------------------|
| Title: Elevator Trim Left Stick Priority | Rev: F |
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= INSTRUMENT PANEL GROUND

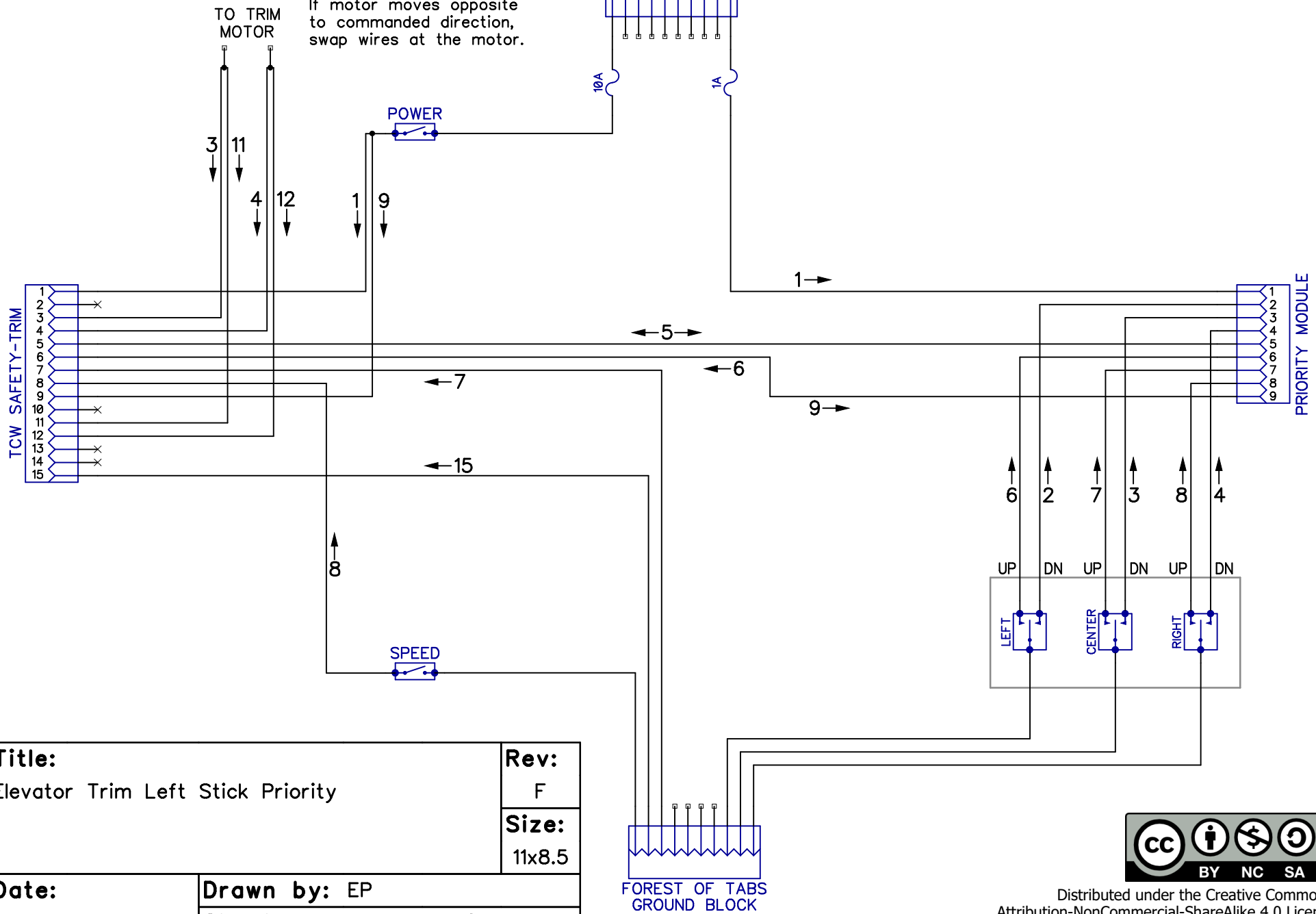


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WIRING DIAGRAM - TCW SAFETY-TRIM:

BATTERY BUS OR MAIN POWER DISTRIBUTION BUS

If motor moves opposite to commanded direction, swap wires at the motor.



Title:
Elevator Trim Left Stick Priority

Rev:
F

Size:
11x8.5

Date:
16 Apr 2025

Drawn by: EP
Sheet: 2 of 2



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