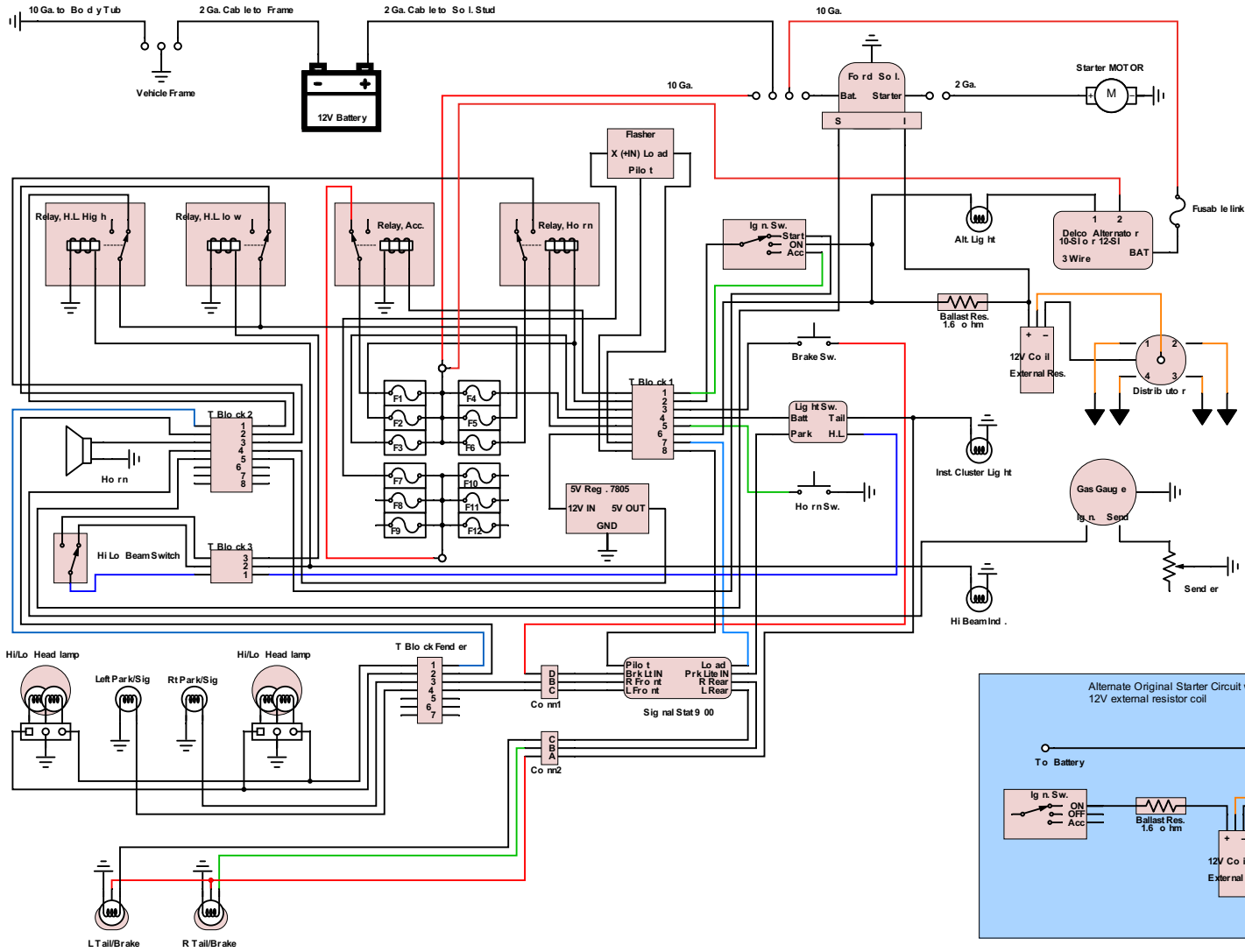


# Willys CJ3A 12V Electrical System

Designed by Dave Miles of SquidsFabShop.com



## Notes:

- 1) Gas gauge is fed 5V from 7805 Regulator circuit. (This small circuit features two capacitors and diode for protection. Consult internet for design suggestions.)
- 2) Upper 6 circuit fuse panel is "hot" at all times. Lower 6 circuit fuse panel fed by "Acc." Relay.
- 3) Relays, T Block (Terminal Blocks) 1, 2 and 3, Fuse blocks, 7805 Regulator circuit and Flasher all reside on panel mounted under dash.
- 4) External 12V coil used with 1.6 ohm ballast resistor in series with "Run" position of ignition switch. "I" terminal of Ford Solenoid feeds a full 12V to Coil during "start" position of ignition switch.
- 5) Delco "3-Wire" alternator configuration utilizes an incandescent bulb for "charging" indication. Mount indicator on dash if desired.
- 6) Signal Stat 900 modified for single filament front lamp operation. See internet for modifications required.
- 7) Flasher unit 3 Pin type. X=12V power in, L=Load (blinker power to Signal Stat), P=Pilot (indicator lamp power to Signal Stat or user added lamp indicator on dash)
- 8) Ford style Solenoid replaces original style foot switch on starter motor. It is possible to do this mod, however mechanical activation of pinion with foot is still required on original CJ3A starters. Upgrade to Toyota Land Cruiser starter to eliminate manual pinion activation.
- 9) If desired, an alternate starter/ignition circuit can be implemented that eliminates ballast resistor by substituting an internal Resistor 12V coil. Wire from "I" terminal on Ford Solenoid to coil is also eliminated if using an Internal Resistor type Coil.

