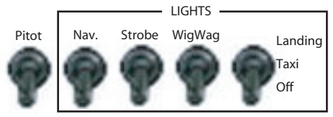
# Dual Battery, Single Alternator, Three Bus
# For Eggenfellner Engine

20031126 http://www.caseyspm.com/RV7A.html

- G1 ENG = ENGINE CRANKCASE GROUND
- G2 FWL = FIREWALL GROUND BUS
- G3 PNL = INSTRUMENT PANEL GROUND BUS
- □ = 2AWG EQUAL STRAP
- △ = BRAIDED BOND STRAP
- * = 5 Feet or less
- ☆ = REDUNDANT GROUNDS DO NOT SHARE CONDUCTORS OR TERMINALS




B&C Specialty Products
Model LR-3 Alternator Controller
Low voltage causes lamp to blink.
Over Voltage throws crowbar on BUS pin 6.

FLD 4 · BUS 6 · OV SENSE 3 · LAMP 5 · OV PTT 2 · T SENSE 1 · GND 7

CASE GND STUD → 20AWG → G3 PNL

NOTE 7

20AWG → G3 PNL

20AWG

22AWG → 220Ω 1/2W → 220Ω 1/2W

22AWG

BATTERY TEMP SENSOR

MAIN LOW VOLT WARNING AMBER

Starter Warning RED

220Ω 1/2W → 1A

S702-1 STARTER CONTACTOR

F

G1 ENG

MAIN ALT 35A

B

2AWG

G2 FWL

SOL

STARTER

G1 ENG

Start

20AWG

Hall Effect Ammeter

ANL40

10AWG

20AWG

Carling Switch
Keyway Down

4 1 · 5 2 · 6 3

Bottom View

LIGHTS LANDING/TAXI

WigWag

LANDING LIGHT

TAXI LIGHT

S700-2-10

18AWG Landing Light

18AWG Taxi Light

ON ON OFF

18AWG

Bottom View

SSF-1 WigWag Flasher

18AWG

15A LANDING/TAXI · NAVIGATION LIGHTS 15A · STROBE 5A · PITOT HEAT 15A · CABIN HEATER FAN 7A · 5A · ALT FLD · 7A · START 20AWG 7A

MAIN POWER DISTRIBUTION BUS Heat & External Lights

* 10AWG

40 Amp Current Limiter

5701-1 MAIN BATTERY CONTACTOR

4AWG □

S701-1 AUX BATTERY CONTACTOR

1N5400

2A · 2A · 2A · 2A · 2A · 2A · 2A · 2A · 2A · 10A · 5A

AVIONICS BUS

* 14AWG

**Avionics**
Amber

4AWG *

Odyssey PC680
14.4 lbs.
10 Amp/Hour

Odyssey PC680
14.4 lbs.
10 Amp/Hour

**Main**
Green

CONTACTORS 2A · DOME LIGHT 2A · FUEL PUMP 10A · PRI IGNITION 5A

ENGINE BUS

* 14AWG

**Engine**
Red

4AWG

GROUND BUS

INSTRUMENT PANEL

G3 PNL

4AWG

G1 ENG