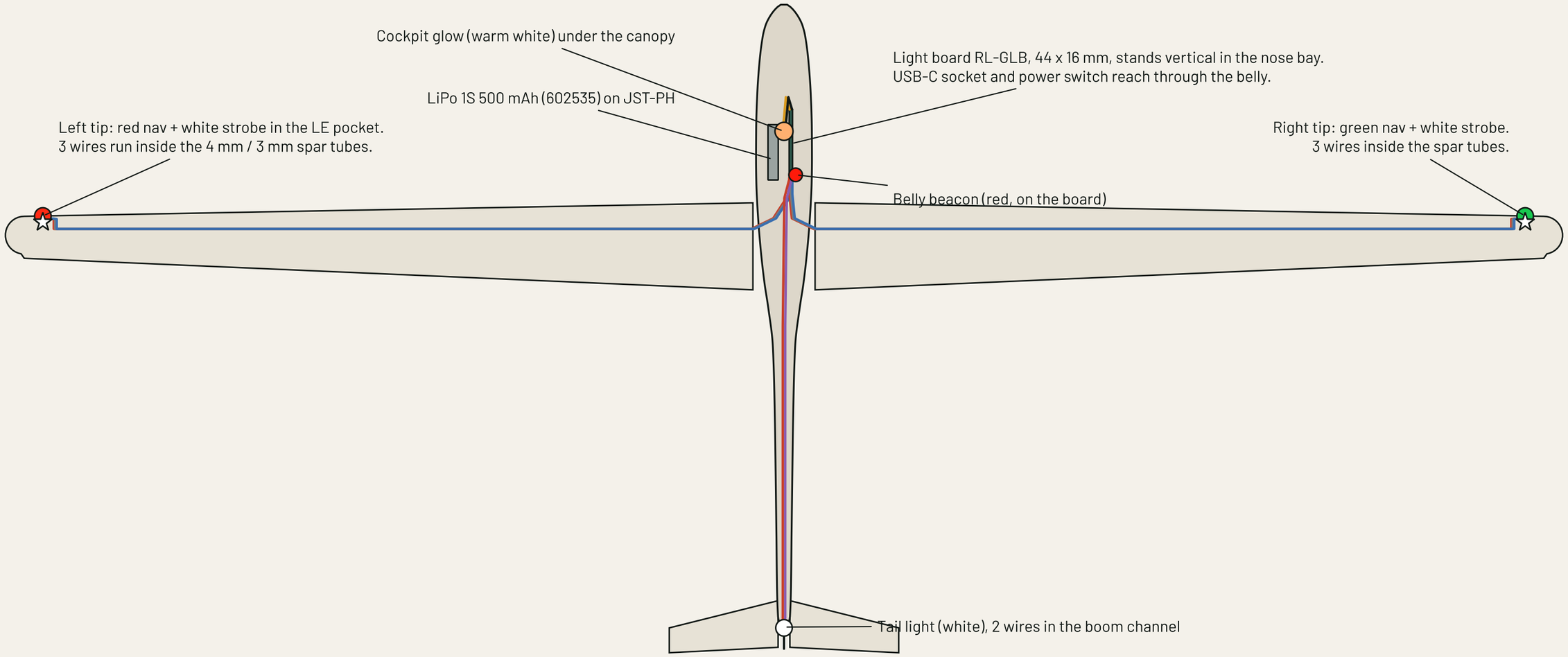
RIDGELIFT SOARING SERIES / DISPLAY GLIDER LIGHT HARNESS

Plan view from above, nose up. Wires: 0.15 mm enamelled magnet wire (or 36 AWG silicone), routed through the carbon spar tubes and the moulded boom channel.



- VSYS common anode (+)
- Nav LED cathode
- Strobe LED cathode
- Tail LED cathode
- Glow LED anode
- Glow return (GND)

J3 pad	Net	Goes to
1 +L	VSYS	Left wing LEDs, anodes
2 NL	NAV_L	Left red nav cathode (330 R on board)
3 SL	STR_L	Left strobe cathode (39 R)
4 +R	VSYS	Right wing LEDs, anodes
5 NR	NAV_R	Right green nav cathode (150 R)
6 SR	STR_R	Right strobe cathode (39 R)
7 +T	VSYS	Tail LED anode
8 T	TAIL	Tail LED cathode (150 R)
9 G+	GLOW_A	Glow LED anode (220 R, PWM)
10 G-	GND	Glow LED cathode

Timing (firmware rl_glider_lights, ATtiny402):
DISPLAY: nav + tail steady, strobes double-flash (50/70/50 ms) every 1.25 s, rotating-style red beacon (1.1 s), cockpit glow.
CALM: steady lights, nothing flashing. NIGHT: single strobe flash, breathing glow. GLOW: cockpit glow only.
Switch off and on within ~1.5 s to step to the next mode (remembered).
Battery below 3.40 V: flashing stops, nav blinks twice every 8 s.
Below 3.25 V: lights off. USB-C charge ~255 mA, red = charging, green = full; charging works with the switch off.