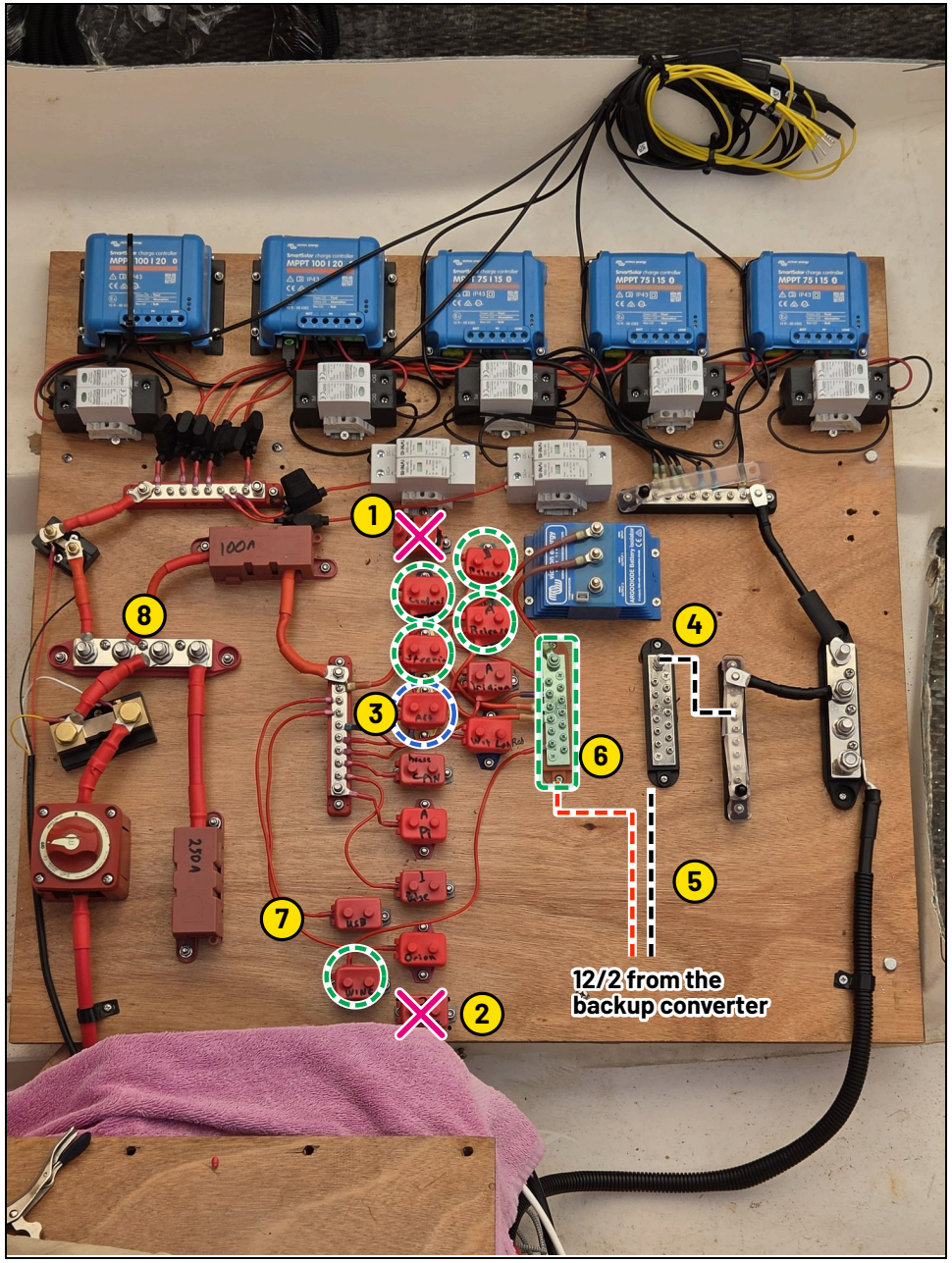
MAIN BUS BOARD: WHAT IS LEFT

Mike's photo, Nov 10 · numbers match the list



DONE

Both shunts on the + side; the minus side plain cable (pack –, – solar bar and the – branch bar link on the – 400 A bar). Argodiode in, its feed from the branch bar and its output on. Backup-fed bar pair mounted, five jumpers on its + bar. Sense wires on both shunts. The CAN and Bilge 2 breakers have no wire on them.

STILL TO DO

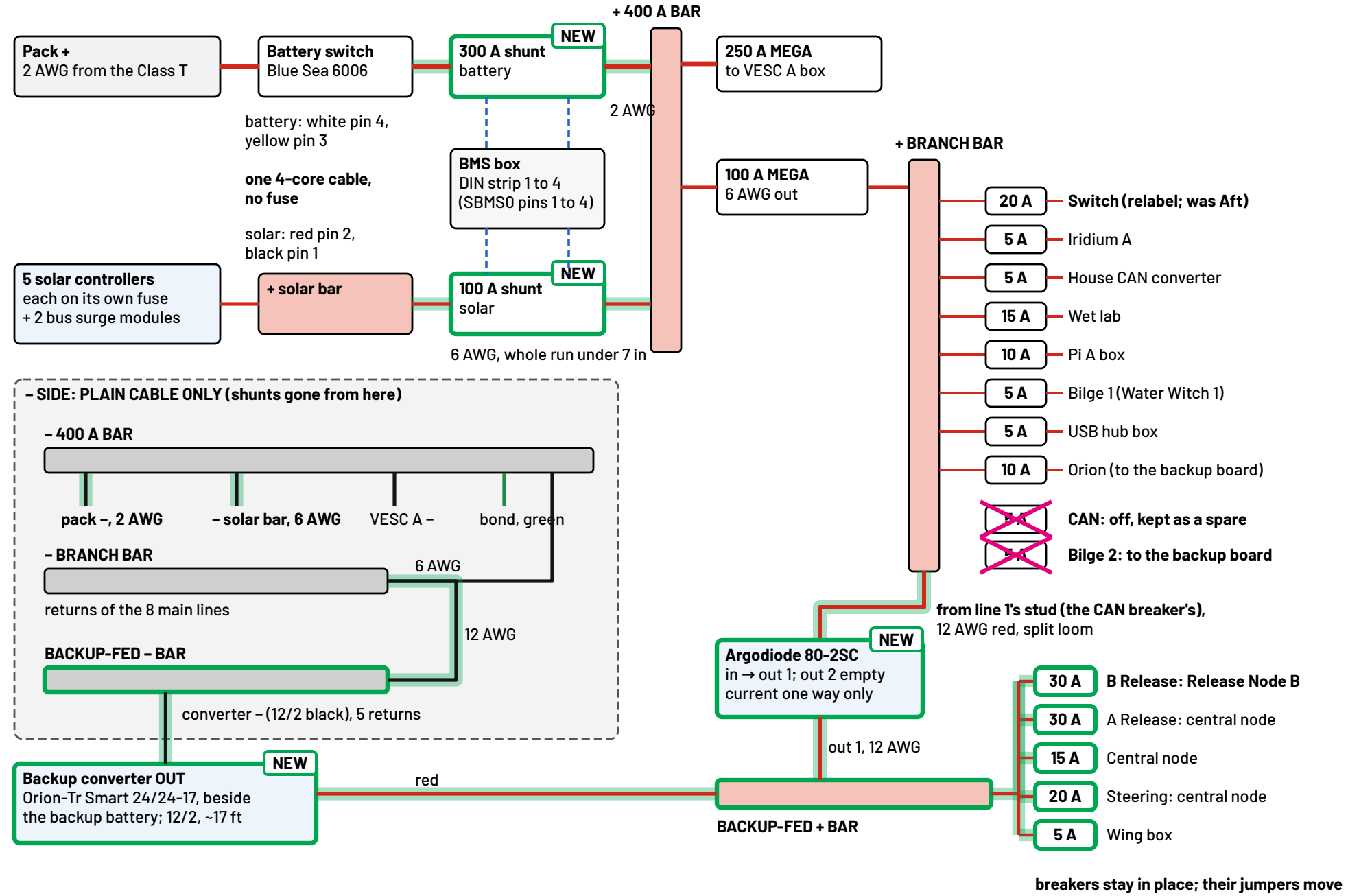
1. **CAN breaker comes off** the board. Keep it as a spare.
2. **Bilge 2's breaker comes off** and goes on the backup battery board (pump 2 runs off the backup battery).
3. **Relabel "Aft" as "Switch"** (the network switch box). It stays on the branch bar.
4. **Short 12 AWG black** from the backup-fed – bar to a free stud on the – branch bar.
5. **Backup converter's 12/2,** when it is in: red to a free stud on the backup-fed + bar, black to the backup-fed – bar. The five lines' blacks land on the backup-fed – bar too.
6. **Only these five on the backup-fed + bar:** B Release, A Release, Central, Steering, Wing. Iridium A and Wet lab stay on the branch bar.
7. **Split loom** on every jumper over 7 in: Wing, the Argodiode feed, USB, bilge 1, Orion and any other long one.
8. **Covers back on:** both 400 A bars, both shunts (live now), and the new bar pair.

the backup-fed + bar × comes off breaker on the backup-fed bar

new + wire new – wire

MAIN BUS BOARD: WIRING

how it connects when finished · not to scale · the changed parts in green



+ wire · – wire · shunt sense pair · new or moved · × comes off

MAIN BUS BOARD: WIRES AND ORDER

the wires still to land · lug hole to fit each stud

WIRES STILL TO LAND

From	End	To	Wire
Backup-fed – bar	end stud	– branch bar, a free stud	12 AWG black, short
Backup converter	12/2, about 17 ft	red: backup-fed + bar, a free stud; black: backup-fed – bar	12/2 roll on hand
Five returns	when wired	backup-fed – bar	the black of each line's duplex (B Release, A Release, Central, Steering, Wing)
VESC A box	+ and –	250 A MEGA out; – 400 A bar free stud	2 AWG red and black (the motor's own runs)

ORDER OF WORK

1. Battery switch off, and lift one end of the 300 A Class T at the battery box. No PV connected.
2. Off: the CAN and Bilge 2 breakers (1, 2). Relabel Aft as Switch (3).
3. The – link (4). The converter's 12/2 when it is in (5).
4. Split loom (7). Covers on (8).
5. Close the Class T last.

PARTS

Part		Where from
12 AWG black	HAVE	From the 12/2 roll
Split loom, labels	HAVE	
Backup converter	BUY	Victron Orion-Tr Smart 24/24-17 isolated, amazon.com/dp/B07YN4LGR9 (on the Buy list); its plan is the backup board's