

electrical wiring diagram

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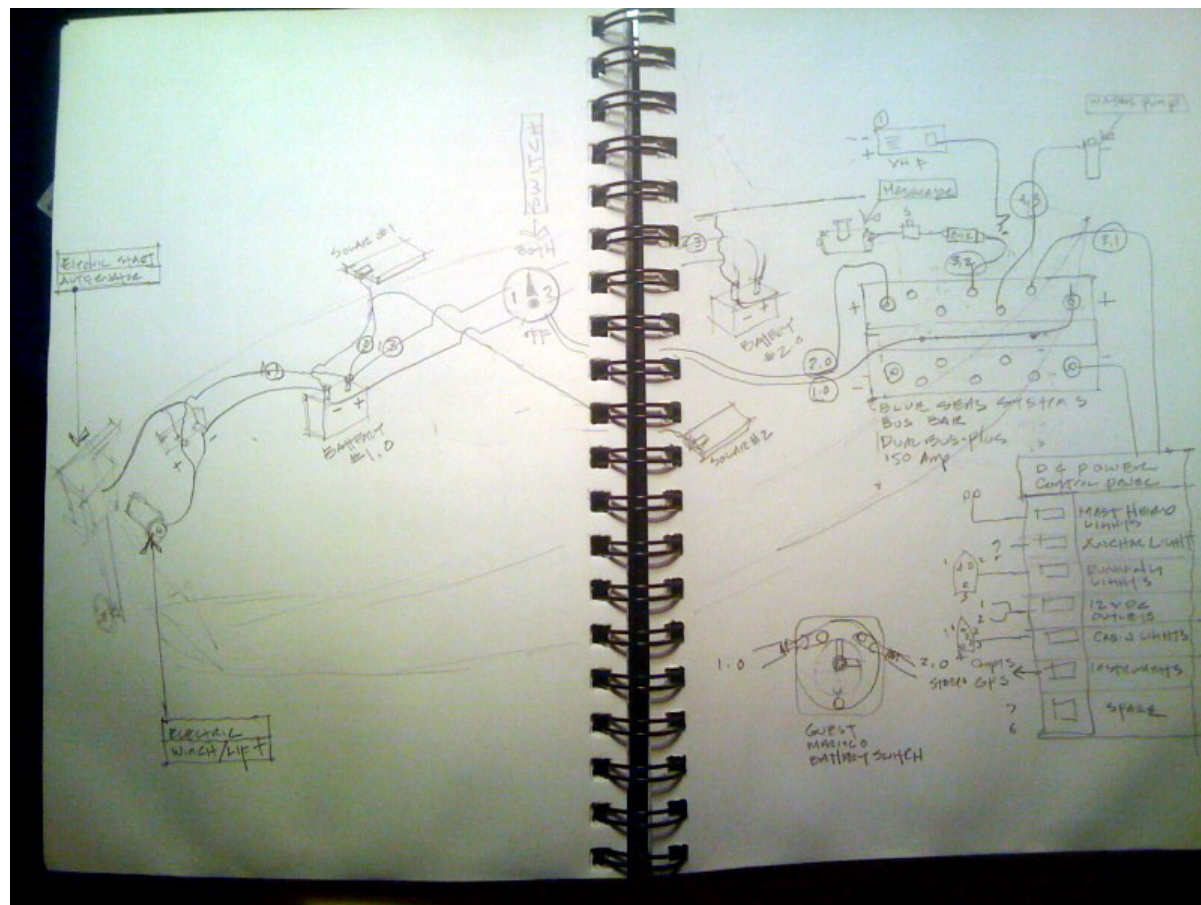
Dec 25, 2009; 6:28pm  Chris Cowie electrical wiring diagram

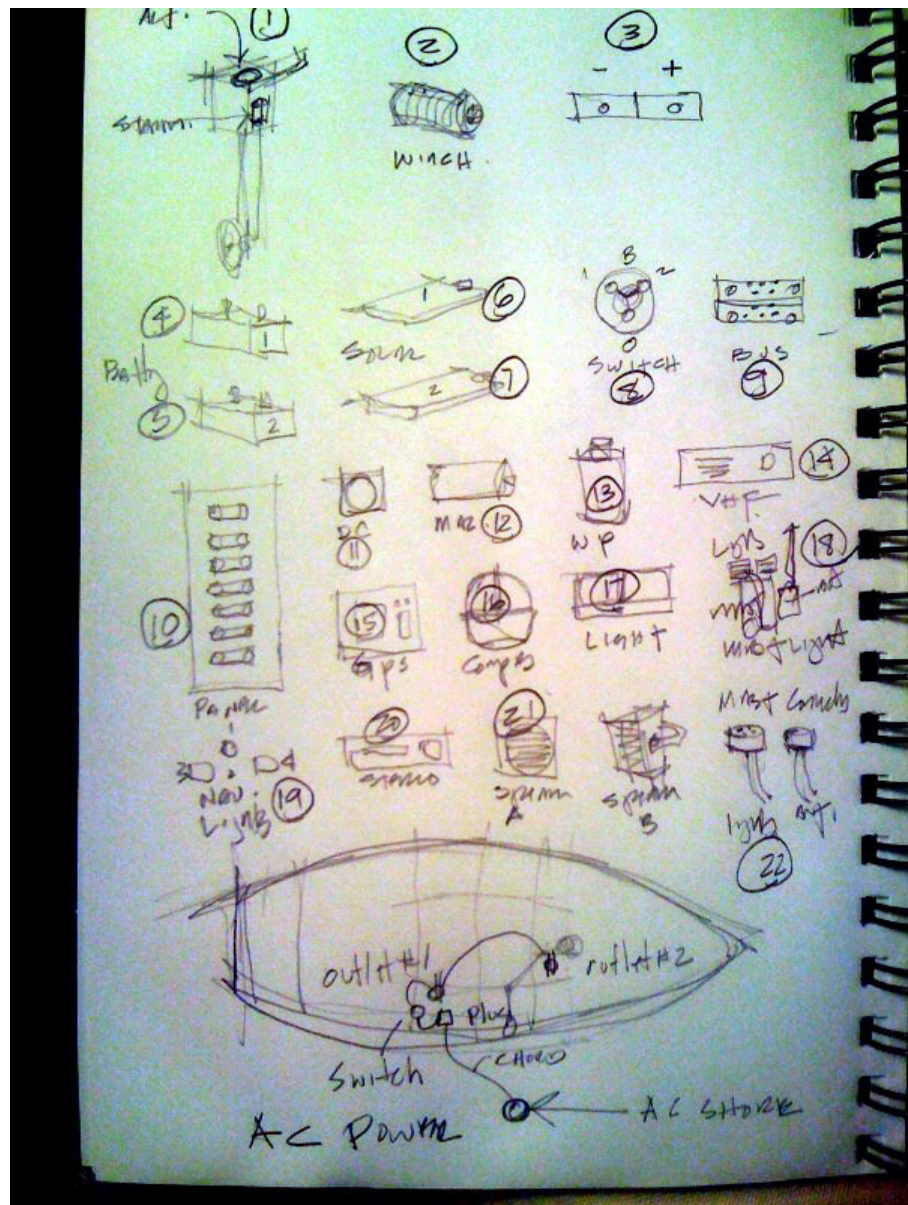
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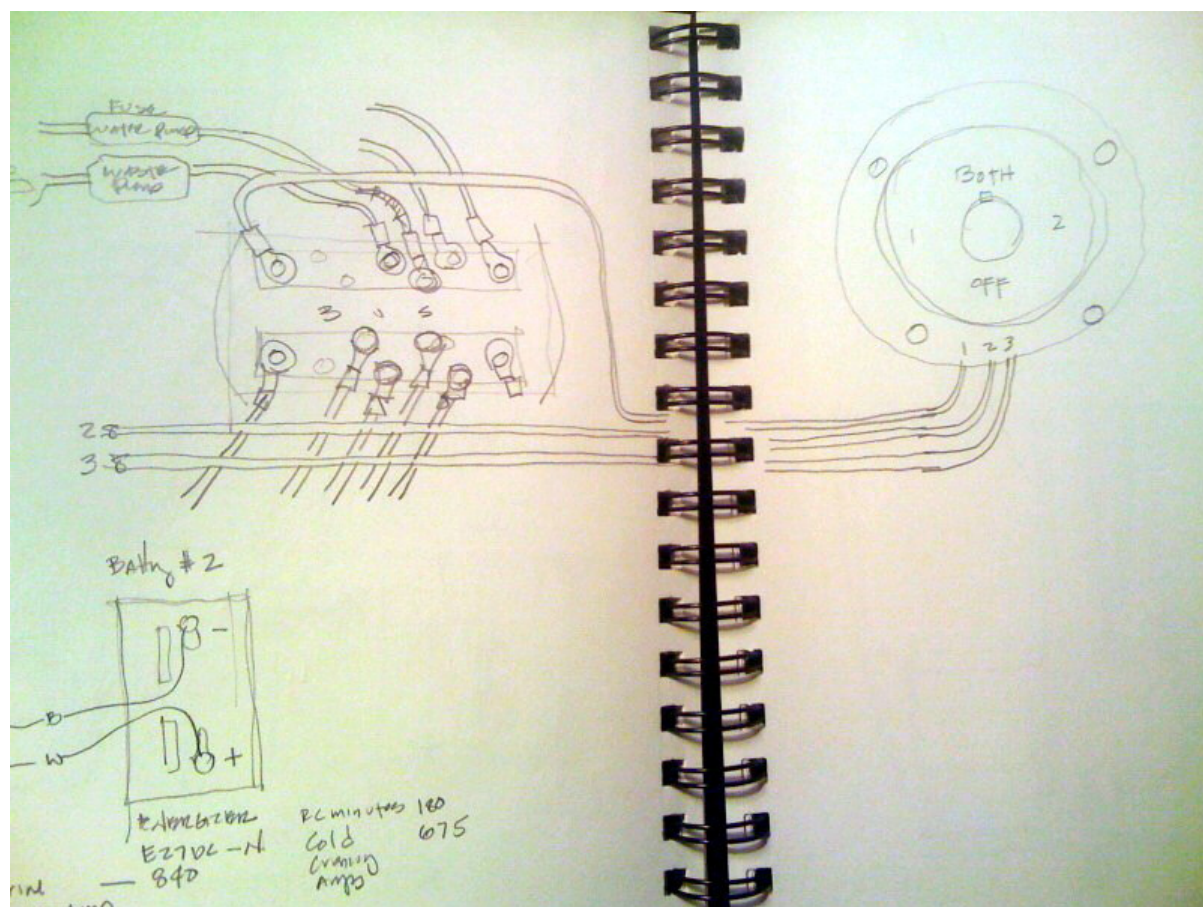
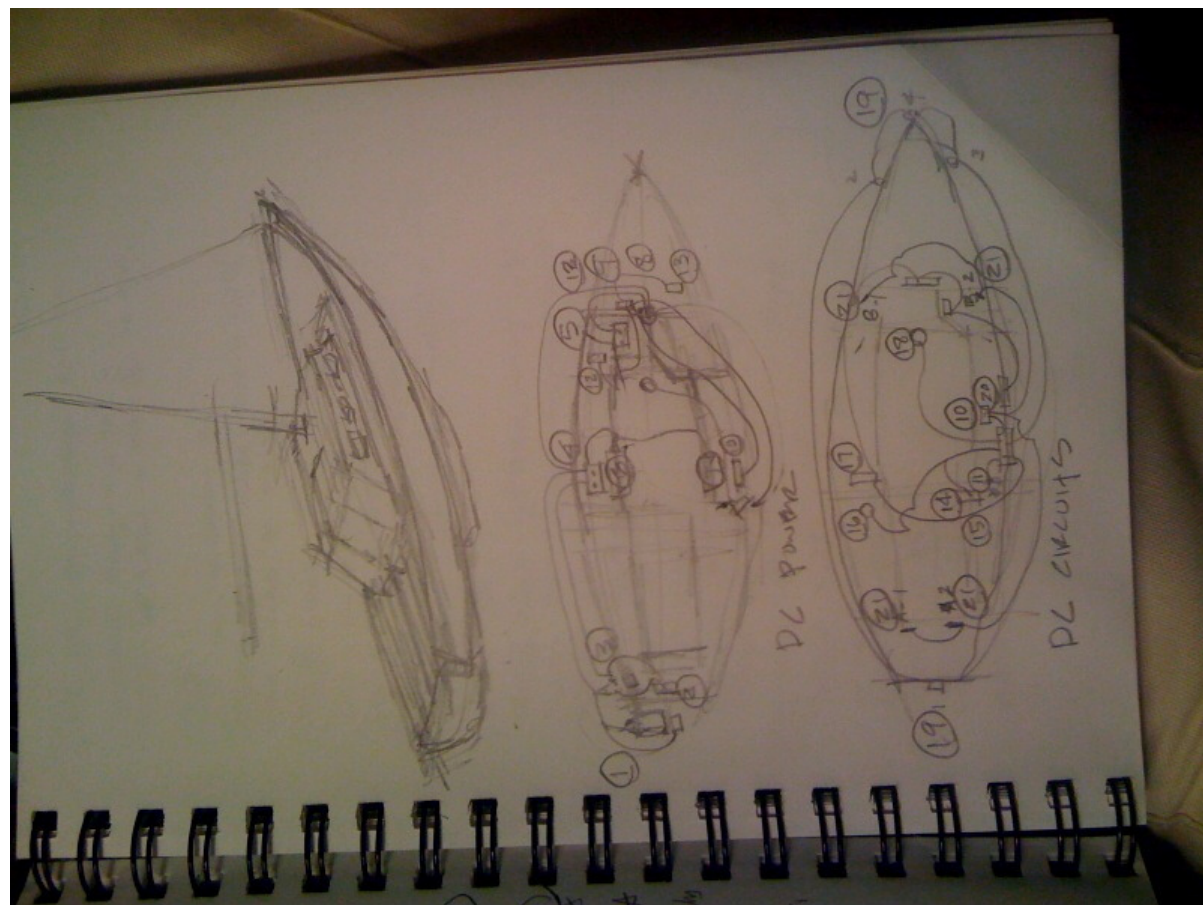
I am trying to better understand how my boat is wired and am putting together some wiring diagrams per the enclosed sketches. These sketches will be updated as I learn more about what all the wires mean, where they go and what they do but this is my start. I am open to any suggestions, critique or insight from any members better versed in how our electrical systems work. What I am trying to show in my diagram is as follows:

1. The outboard has a single set of wires that appear to go to a block with pos and neg terminals to which the starter is also connected. This block appears to be connected direct to battery #2, my starter battery. I think the battery #2 directly powers the starter and lift and also receives a charge direct from the outboard alternator.
2. I believe the two solar panels go direct to battery #2 but I am not sure. If I am correct then battery #2 would always receive a trickle charge when the sun is shining and battery #2 could also receive a charge if the battery switch is in the both position.
3. The battery switch seems to control how power is provided from battery #1 and or battery #2 to the power bus.
4. The power bus seems to provide power to the main panel, the macerator, the water pump, the vhf radio. I see two big white wires and three small white wires, two big black wires and four small black wires, I don't understand where all of these go and what they do.
5. The main distribution panel seems to have switches that control circuits to each of the appliances, cabin lights, dc outlets etc....

With input and corrections I can post a more accurate set of diagrams for fleet reference.







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Dec 26, 2009 **Lowe, Rob** Chris, Hey, pretty good for an architect :) (sorry, I'm an engineer). 1. This sounds correct. Typically battery 1 is your "house" ...

Dec 26, 2009 **Chris Cowie** Rob: Thanks for the reply and compliment, not very often an engineer has something nice to say to an architect. 1. Battery #1 seems pretty c

Dec 28, 2009 **Lowe, Rob** Chris, Glad you took the compliment as intended. 3. Sounds correct to me. these should be larger wires to since they go to the batteries. ...

Dec 28, 2009 **Chris Cowie** Rob: Thanks for the reply and link to the Sail article. I am getting closer to understanding how all this electrical stuff works and the artic.

Dec 26, 2009 **Rick** Chris, I'm re-wiring my early '90's vintage panel from fuse switches to circuit breakers. The other big thing is changing from twisted togeth...

Dec 26, 2009 **mweisner@ebsmed.com** Rick, Make sure that all dissimilar metal connections are tight. The reason that many sailing electrical systems are twisted tog

Dec 26, 2009 **Rick** Mike, The 120 v ground I'm talking about is not from an inverter. Rather, it comes out of the shore power connection box. It was twisted wit...

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