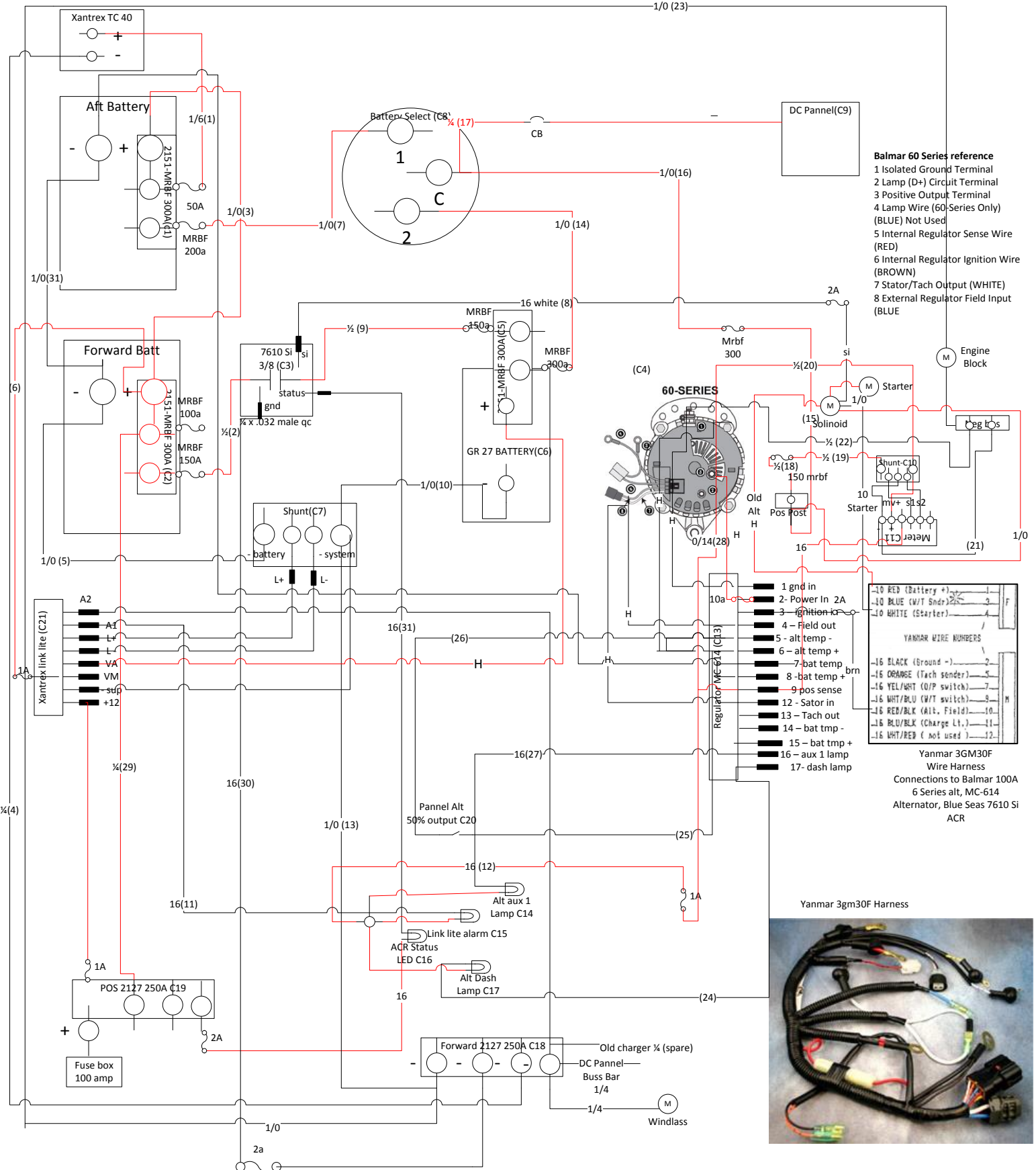


Upgraded Electrical Components
 Balmar 6 Series Alternator 100A
 Xantrex Link Lite battery monitor
 Xantrex True Charge 40 Charger
 Blue seas 7610 SI ACR
 Blue seas mrbf battery fuse
 Blue Seas 8236 multi meter Amps and VDC
 Marine Starting Battery Group 27

Thanks for posted design from these very smart guys (google their articles):
 Myron Welch (schematic)
 Chris Ashley (schematic)
 Karl Mielenhausen
 Jeff Hare
 David Swanson
 Roy Kraft
 Warren Updike

Recommended Reading:
<http://www.catalina320.com/>
http://www.pbase.com/maincruising/battery_cables
http://www.pbase.com/maincruising/wire_termination
http://www.pbase.com/maincruising/flooded_battery_orientation
http://www.pbase.com/maincruising/terminating_small_wires
<https://groups.google.com/forum/#forum/c320-list>
http://www.pbase.com/maincruising/wire_labeling
http://www.pbase.com/maincruising/battery_fusing
<http://www.amazon.com/Boatowners-Mechanical-Electrical-Manual-Essential/dp/0071432388>
http://www.yanmarmarine.co.uk/pdfs/service_manual/EPB5494.pdf
<http://fairwind.org/boats/C320/Catalina320Manual.pdf>

Revision 5 11/22/2013
 A Boa Vida Hull #972 Electrical Schematic
 Catalina 320 2004
 Yanmar 3GM30F-YEU
 AUTHOR: Danny Jensen 11/22/2013
 Redondo Beach, CA



- Balmar 60 Series reference**
- 1 Isolated Ground Terminal
 - 2 Lamp (D+) Circuit Terminal
 - 3 Positive Output Terminal
 - 4 Lamp Wire (60-Series Only) (BLUE) Not Used
 - 5 Internal Regulator Sense Wire (RED)
 - 6 Internal Regulator Ignition Wire (BROWN)
 - 7 Stator/Tach Output (WHITE)
 - 8 External Regulator Field Input (BLUE)

- YANMAR WIRE NUMBERS**
- 10 RED (Battery +)
 - 10 BLUE (W/T Sndr)
 - 10 WHITE (Starter)
- Yanmar 3GM30F Wire Harness Connections to Balmar 100A 6 Series alt, MC-614 Alternator, Blue Seas 7610 Si ACR**
- 16 BLACK (Ground -)
 - 16 ORANGE (Tach sender)
 - 16 YEL/WHIT (O/P switch)
 - 16 WHT/BLK (W/T switch)
 - 16 RED/BLK (Alt. Field)
 - 16 BLU/BLK (Charge Lt.)
 - 16 WHT/RED (Not used)



