Boat Electrical Inspection Checklist

Long Beach Marine Electric · (562) 374-7233 · longbeachmarineelectric.com

Use before winter storms, before a trip, and every few months. Tick each item; anything you can't tick is worth a call.

SHORE POWER

- [ ] Plug and inlet: no browning, melting or loose pins
- [ ] Cord jacket: no cracks, cuts or crushed sections
- [ ] Weather boots and locking collars in place
- [ ] Reverse-polarity indicator works
- [ ] Pedestal holds with water heater, charger and A/C on
- [ ] ELCI fitted at the main breaker (ABYC E-11: 30 mA / 100 ms)

BATTERIES & CHARGING

- [ ] Terminals clean, tight and covered
- [ ] Batteries secured; cables fused near the battery
- [ ] Resting voltage next day ~12.6–12.8 V (lead-acid)
- [ ] Charger on, charging and set to the battery type
- [ ] Charging voltage rises with the engine running
- [ ] Draw with everything off measured (target: near zero)

BILGE

- [ ] Automatic pump starts with water, not just the switch
- [ ] Pump stops on its own; water exits the through-hull
- [ ] Auto circuit stays powered with battery switch OFF
- [ ] Auto circuit fused within 7 in of the source
- [ ] High-water alarm tested and audible
- [ ] Float area clear of debris and oil

CORROSION & BONDING

- [ ] Anodes under 50% wasted; note wear rate
- [ ] Galvanic isolator or isolation transformer present
- [ ] Bonding wires intact to shaft, strut, through-hulls
- [ ] No green or black copper at bilge connections

Long Beach Marine Electric is a free service connecting customers with independent local providers.
This checklist is general guidance, not a substitute for inspection by a qualified marine electrician.

Boat Electrical Inspection Checklist (cont.)

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LIGHTS & ELECTRONICS

- [ ] All navigation lights on correct switches (COLREGs 22)
- [ ] Anchor light works
- [ ] Electronics stay on while cranking the engine
- [ ] Nav light voltage at fixture within 3% of panel

Something you can't tick? Call (562) 374-7233 for a same-day callback.

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