



# Boatowner's Mechanical and Electrical Manual: How to Maintain, Repair, and Improve Your Boat's Essential Systems

By Nigel Calder

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**The boatowner's foremost troubleshooting guide, now better than ever**

If it's on a boat and it has screws, wires, or moving parts, it's covered in *Boatowner's Mechanical and Electrical Manual*. When you leave the dock with this book aboard, you have at your fingertips the best and most comprehensive advice on:

- Battery technologies
- 12- and 24-volt DC systems
- Corrosion, bonding, and lightning protection
- Generators, inverters, and battery chargers
- Electric motors and electric lights
- Marine electronics, antennas, and RFI
- Diesel engines
- Transmissions, shaft brakes, and propellers
- Refrigeration and air-conditioning
- Tanks, plumbing, and through-hulls
- Pumps and watermakers
- Steering, autopilots, and wind vanes
- Stoves and heaters
- Winches, windlasses, and bow thrusters
- Spars, rigging, and roller reefing

"If you had to choose a single book to help you assess and maintain your boat gear, this would be it." *Practical Sailor*

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"The world's best technical reference and troubleshooting book." *Sailing Inland*

*and Offshore*

"This manual will be of lasting interest to anyone who wants to know how their boat works, what has gone wrong when it doesn't, and how it could be fixed."? *Classic Boat*

"Without becoming too complex, the book covers almost every imaginable mechanical or electrical matter in the marine environment."? *Work Boat World*

"Calder *lives* what he writes, . . . [and] what he offers . . . is practical solutions to problems associated with increasingly complex marine systems. . . . [A] bargain for anyone in the construction and repair side of the boat business."? *Professional Boatbuilder*

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### Editorial Review

#### Review

'A reference library book that'll solve or at least set you on the right track to solving almost any boat related problem' Boat Mart 'A serious builder or owner, or a marine professional, will find it invaluable' Sailing Magazine (March 2010)

#### From the Back Cover

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**Nigel Calder** is widely acknowledged as the world's foremost writer on boat systems maintenance. A diesel mechanic for more than 25 years, he has also been a boatbuilder, cabinetmaker, and machinist. Calder is the author of *How to Read a Nautical Chart*, *Nigel Calder's Cruising Handbook*, *Refrigeration for Pleasureboats*, and *Marine Diesel Engines*. He is a frequent contributor to boating magazines in the United States and Britain.

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