

# 12-Volt Alternator Installation & Operation Manual

# BALMAR®

www.balmar.net



## Introduction

Thank you for choosing a Balmar® high-output alternator. This alternator is uniquely designed and engineered to provide the finest performance and durability for your vessel. Unlike most automotive-type alternators found standard on the majority of pleasure craft and marketed as lower-priced marine alternatives, our marine alternators are built specifically to provide exceptional output at lower engine r.p.m.'s typical of marine diesel engines, so you can enjoy shorter charge cycles, greater economy, longer battery life and less noise and fumes.

When used in conjunction with Balmar microprocessor-controlled Max Charge® and ABS-4® multi-stage regulators, your new Balmar alternator can provide even greater efficiency when charging deep-cycle flooded, standard flooded, air, gel, AGM, Optima and other marine battery technologies. When paired for your battery type, the smart regulator will guide your alternator through a charging program that's tailored to provide your batteries with the best care possible. In addition, Balmar multi-stage regulators provide the ability to temperature sense at your alternator. Should an over-temperature condition occur with an alternator temperature sensor (MC-TS-A) installed, the regulator will reduce field output to 50 percent to allow the alternator to cool under lower load, and the Dash Lamp circuit on the regulator will activate to provide power for a visual or audible alert, enabling the user to respond to the source of the over-temperature condition. Together, the Balmar high-output alternator and multi-stage regulator work to assure the best charge possible.

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## Safety Considerations

Before installing your new alternator, please take a moment to consider the following guidelines for safe alternator installation and operation. Failure to follow these guidelines could result in injury or damage to your vessel's electrical system.

1. Always disconnect your batteries and turn your battery switch to its "OFF" position prior to installing your alternator.
2. Remove any loose fitting clothing or jewelry which could become entangled in your motor or other machinery.
3. Wear ANSI approved safety glasses or eyewear.
4. Ensure that the engine has cooled sufficiently before beginning installation.
5. Do NOT install your high output alternator without ensuring that the system wiring is sufficiently sized to handle increased amperage loads.
6. Be sure that your work area is sufficiently ventilated and that no fuels or solvents are present in and around your work area.
7. DO NOT operate your charging system without proper fusing. Failure to do so could result in severe injury and/or damage to loss of your vessel. DO NOT tamper with fusing.
8. DO NOT attempt installation while using alcohol or medications which could impair your judgement or reaction time.
9. Use the right tool for the job. Use of improper tools could result in damage or injury.
10. Take time to read the manual. Equipment damage and possible injury may result from an incomplete understanding of the proper installation and use of the alternator.

**CAUTION:** The following instructions are intended for use by experienced marine electrical installers. If you are not sufficiently experienced with marine electrical systems, we recommend a qualified electrician be used for installation.

# 12 Volt Alternator Installation Operation Manual

**John Vigor**



## **12 Volt Alternator Installation Operation Manual:**

, *Small AC Generator Service Manual* ,1986      **Haynes General Motors J-Cars Owners Workshop Manuals, No. 766** John Harold Haynes,Larry Warren,1988-06      **Haynes GM N-Cars Owners Workshop Manual, No. 1420** Bob Henderson,J. H. Haynes,1992      **Classic Motorcycle Electrics Manual** James Smith,2015-08-31 Even the most hands on of classic bike enthusiasts will often shy away from working on their bike s electrical system believing they have neither the skill nor the knowledge for such work Dr James Smith explains in *Classic Motorcycle Electrics Manual* that this need not be the case Starting with basic electrical theory the book demonstrates a wealth of electrical tips and techniques providing a progressive and detailed guide to tasks ranging from simple repairs and upgrades through to completely rewiring a classic motorcycle Illustrated profusely with full colour photographs and easy to following wiring diagrams this book will be an invaluable resource for all classic bike owners and restorers      *Popular Science* ,1972-04 *Popular Science* gives our readers the information and tools to improve their technology and their world The core belief that *Popular Science* and our readers share The future is going to be better and science and technology are the driving forces that will help make it better      *The Commercial Car Journal* ,1963-03 Beginning with 1937 the April issue of each vol is the Fleet reference annual      *Bibliography of Scientific and Industrial Reports* ,1946      **The Radio Manual** George Edward Sterling,1944      **Railway Age** ,1951      *The Practical Encyclopedia of Boating* John Vigor,2007-08-21 Vigor is one of the finest boating writers of our time Cruising World You name it it s in here Covers every boating situation This book is both informative and entertaining Latitudes Attitudes John Vigor is the answer guy if you re having onboard arguments about nautical terminology or the science of sailing in general and his new book lives up to the promise in its title Good Old Boat Whether it s boat maintenance navigation boat handling in all kinds of weather or the physics of how boats function every sailor and powerboater needs a comprehensive go to source for specialized information Now you have it with *The Practical Encyclopedia of Boating* Addresses virtually every aspect of powerboating and sailing in 500 entries Covers seamanship and boat handling navigation routine boat maintenance boat design and building and nautical reference data Ranges from vital techniques such as recovering overboard crew and measuring distances off to essential concepts like reading the water and sky and evaluating a boat s seaworthiness Includes numerous cross references and an exhaustive index to direct you quickly to the right entry and to unify related topics Makes delightful browsing as well as a source of sound guidance for practically any boating situation      **Electronic and Electrical Systems** John Deere Publishing,1993 A service testing and maintenance guide for electronic and electrical systems in off road vehicles trucks buses and automobiles Publisher      *The TAB Handbook of Radio Communications* Joseph J. Carr,1984      *Compact Equipment* Dan Roling,1994-05 Topics covered are limited to electrical circuits on equipment rated up to 40 PTO horsepower 30 kW The electrical circuits discussed are found on chain saws weed trimmers lawn mowers riding mowers lawn and garden tractors turf equipment compact utility

tractors skid steer loaders compact excavators and small backhoe loaders      **Handbook of Simplified Radio, Phono, and  
Tape Recorder Repairs** James Edward Keogh,1981      **The American City** Arthur Hastings Grant,Harold S.  
Buttenheim,1964      New York Court of Appeals. Records and Briefs. New York (State).,      **QST.** ,1963      *Catalog of  
Sears, Roebuck and Company* Sears, Roebuck and Company,1978      *Preventive Maintenance* Louis Hathaway,Deere &  
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