

# 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 ARS-4® multi-stage regulators, your new Balmar alternator can provide even greater efficiency when charging deep-cycle flooded, standard flooded, gel, AGM, Optima and other marine battery technologies. When preset 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 lesser 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 scaled 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 or loss of your vessel. DON'T take chances 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.

# Lucas12 Volts Alternator Manual

**S Ben Porath**



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