Owners Manual & Installation Guide for ProMariner Battery Isolators

Please read this manual for proper installation and operation of this device.

ProMariner Marine Battery Isolators are rated for use with negative ground alternators that range from 10 amps to 130 amps output, and will operate on 6, 12, 24, 32, 36 volt negative ground systems. They are solid-state devices which allow electrical current to flow in one direction only. This allows one or two alternators to be connected to multiple battery banks without fear of fully charged batteries discharging into undercharged batteries.

Note:
ProMariner Battery Isolators are not recommended for use with any self energizing style alternator. ProMariner isolators are to only be used with negative ground systems.

For Proper Installation:

Mounting:
Mount the unit in a well ventilated location as near to the alternator a possible. Do not mount the unit on an engine or in proximity to an exhaust manifold.

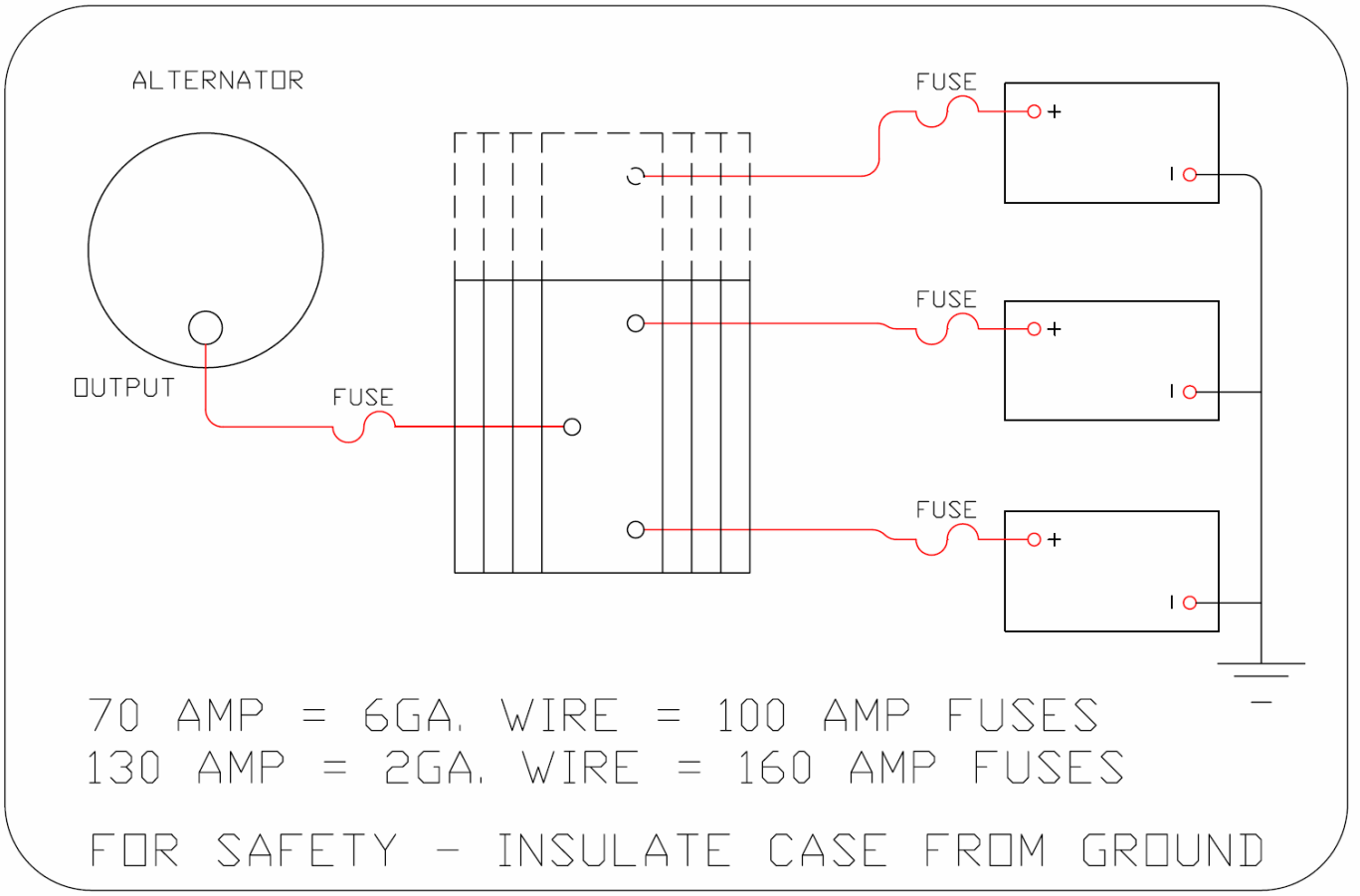
Wiring:
The battery cable should be sized in accordance with the engine manufactures recommendations. Ring terminal connectors sized in accordance with wire size (see table for wire sizes). 5/16" rings are recommended. Fuses **must** be used 7" from the alternator and 7" from the batteries on **all** leads coming from the battery isolator. See chart below for fuse sizes. Refer to the American Boat and Yacht Council's recommendations for additional information on the installation of battery isolators.

Wire Size Table

Alternator Output Amps	10ft	20ft
40	#8 awg	#6 awg
50	#6 awg	#4 awg
70	#6 awg	#2 awg
100	#4 awg	#2 awg

Fuse Size Table

Batt. Isolator Amps	Fuse (please see below diagram for placement)
70	100amp
100	160amp



1) QUESTION: What is an isolator used for?

ANSWER: They are solid state devices which allow electrical current to flow in one directly only. This allows one or two alternators to be connected to multiple battery banks without fear of fully charged batteries discharging into undercharged batteries.

2) QUESTION: How do I know which isolator I need?

ANSWER: It all depends on the number of alternators you have, the amperage output of the alternator(s), and the number of batteries that you are wiring to. **Note:** Professional Mariner Isolators are not recommended for use with **any self energizing style alternator.**

3) QUESTION: How do I wire up the isolator?

ANSWER: The isolator is wired between the alternator and the batteries. One or two alternator input terminals connect from the alternators to either two or three output terminals connected to batteries.

4) QUESTION: There is no output voltage on my isolator?

ANSWER: Check to see if the isolator is working with a digital multi-meter set on “DIODE CHECK” mode. Put the red lead on the alternator input terminal and the black lead on one of the battery output terminals…..you should get a reading around .4 on most meters. Then reverse the leads and you should get a reading of infinity. Perform this procedure from all of your alternator input terminals to all of your battery output terminals. If you get a different reading with the red lead on a battery terminal then the isolator is defective.