BUS BAR
Installation Instructions

This bus bar is included with your NEWMAR Elite Series Electrical Panel for your optional use. It can be used as an additional tie point for AC grounds (Safety/Earth Ground), AC Neutral or DC Negative (-) Ground.

A heavy duty terminal is attached to the bus bar for securing a large gauge DC negative or AC neutral cable, if necessary. This terminal may be attached to the bus bar for connection to one or both of the terminal strips, as illustrated below.

CAUTION: Do not replace brass screws on bus bars with any screws greater than 3/8" in length. Any screw longer than that will "bottom out" of the Bus Bar assembly.

BUS BAR WIRING EXAMPLES

M-ESBUSS-D
Panel Wiring Notes

All wiring to and from your NEWMAR electrical panel should conform to USCG 33 CFR 183-1 and ABYC Standards E8 (AC Systems on Boats) or E9 (DC Systems on Boats).

For copies of these documents contact:

☐ Superintendent of Documents
  Government Printing Office
  Washington DC 20402
  Request 33 CFR 183, Subpart 1.

☐ American Boat and Yacht Council
  3069 Soloman's Island Road
  Edgewater, MD 21037
  Request: Standards and Recommended Practices for Small Craft
  AC Systems - Section E8
  DC Systems - Section E9

CAUTION: This installation should only be performed by a competent marine electrician or someone thoroughly familiar with marine electrical systems.

Allowable Amperage of Conductors when 1 to 2 Conductors are bundled, 105° C Insulation, per ABYC E8, page 14.

<table>
<thead>
<tr>
<th>Conductor Size</th>
<th>Outside Engine Spaces</th>
<th>Inside Engine Spaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>20</td>
<td>17</td>
</tr>
<tr>
<td>16</td>
<td>25</td>
<td>21.3</td>
</tr>
<tr>
<td>14</td>
<td>35</td>
<td>29.8</td>
</tr>
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<td>38.3</td>
</tr>
<tr>
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<td>51</td>
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</tr>
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<td>6</td>
<td>120</td>
<td>102</td>
</tr>
</tbody>
</table>

Note: These illustrate typical installations—consult ABYC Section E8 or E9 for your specific system.

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M-PNLWIR-D
As of July 2004