C. E. Niehoff & Co.
BRUSHLESS ALTERNATORS

N7289 Drive End Housing Assembly
for N1375 Alternators

Installation Instructions

DANGER This symbol is used in these instructions to indicate the presence of hazards that will cause severe personal injury, death, or substantial property damage if ignored.

1. Make sure three envelopes were supplied with the new housing assembly. Each envelope contains hardware necessary to correctly assemble housing assembly onto unit.

2. On new DE housing assembly, remove and discard ALL washers and nuts affixed to positive-negative diode pairs—SEE PAGE 2 for SPECIFIC DIODES. Do not reuse existing hardware.

DANGER Removing hardware from other diodes will cause severe damage to equipment.

3. Install new housing assembly on shell/stator/field coil assembly, making sure to guide all leads through openings in housing.

4. See pages 2 and 3 to install phase leads and fuse links on housing. Torque all new brass nuts to 2.8–3.0 Nm/25–27 lb. in. Allow 16 hours to set, then retorque brass nuts to 2.9–3.1 Nm/26–28 lb. in.

5. Make sure to clean all leads to be attached to terminal strip in control unit. See page 4 to attach leads to terminal strip. Torque screws to 0.9–1.1 Nm/8–10 lb. in.

6. Install lock washer and bolt provided in kit to ground terminal on housing assembly.

7. Coat diodes with fuse links with Dow Corning® 1-2577 Low VOC RTV coating or equivalent. Do not use coating containing acetic acid (vinegar smell) on electrical components.
FUSE LINK INSTALLATION
Fuse links must be installed in locations shown below. Connect phase leads to negative diodes as indicated.

**DANGER** Failure to install fuse links where shown below or to follow fuse link stacking order on page 3 will cause severe damage to equipment.

**LEGEND:**
- **P1** PHASE LEAD
- **-** NEGATIVE DIODE
- **+** POSITIVE DIODE
FUSE LINK STACKING ORDER
Fuse links must be installed in stacking order shown below.

DANGER
Failure to follow fuse link stacking order below or to install fuse links where shown on page 2 will cause severe damage to equipment.

FUSE LINK PAIR PARTS LIST

<table>
<thead>
<tr>
<th>Item</th>
<th>Part Number</th>
<th>Description</th>
<th>Qty. Req’d for Each Diode</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>N9351</td>
<td>3/4” dia. GRAY INSULATOR</td>
<td>POS 2  NEG 2</td>
</tr>
<tr>
<td>2</td>
<td>N9338</td>
<td>5/8” FLAT WASHER</td>
<td>POS 2  NEG 1</td>
</tr>
<tr>
<td>3</td>
<td>N9062</td>
<td>9/16” FLAT WASHER</td>
<td>POS 1  NEG N/A</td>
</tr>
<tr>
<td>4</td>
<td>N9346</td>
<td>BRASS NUT</td>
<td>POS 1  NEG 1</td>
</tr>
<tr>
<td>5</td>
<td>N9347</td>
<td>BELLEVILLE WASHER</td>
<td>POS 1  NEG 1</td>
</tr>
<tr>
<td>6</td>
<td>N9333</td>
<td>FUSE LINK</td>
<td>POS 1  NEG 1</td>
</tr>
<tr>
<td>7</td>
<td>N9352</td>
<td>.25 x .3 x .9 INSULATOR</td>
<td>POS N/A  NEG 1</td>
</tr>
<tr>
<td>8</td>
<td>N9349</td>
<td>5/8” WHITE INSULATOR</td>
<td>POS N/A  NEG 1</td>
</tr>
</tbody>
</table>

*Note: Item 6 spans both diodes.*

THIS SECTION INCLUDED FOR REFERENCE ONLY. IT IS A POTTED ASSEMBLY.
TERMINAL STRIP IN CONTROL UNIT