Follow these instructions to properly install an N1252 alternator:

1. Remove nut and disc spring washer from shaft, then remove and discard shaft collar.
2. Make sure Woodruff key is securely wedged in shaft slot.
3. Reinstall pulley, disc spring washer, and nut on shaft in that order. See Figure 1. Torque nut to 163 Nm/120 lb. ft.

   **CAUTION**  
   *Do not hammer pulley when installing pulley on shaft. Carefully slip-fit pulley over shaft to prevent shaft from moving out of place.*

4. Mount alternator on engine and torque hardware to engine manufacturer’s specifications.

   **CAUTION**  
   *Failure to tighten slip bushing in rear mounting foot against mounting bracket can result in broken mounting feet or broken bracket.*

5. Install belt on pulley and tension belt to engine manufacturer’s recommendation (typically 80-120 lbs).

   **CAUTION**  
   *All cables must be supported within 300 mm (12 in.) to prevent twisting, loosening, and damage to terminals.*

6. Connect vehicle B+ cable to alternator B+ terminal as shown in Figure 1. Install hardware in stacking order shown in Figure 2. Torque B+ terminal bolts to 15 Nm/11 lb. ft.

7. Connect vehicle B- cable to alternator B- terminal. See Figure 1. Install cable hardware in stacking order shown in Figure 3. Torque B- terminal bolts to 15 Nm/11 lb. ft.

8. Install regulator according to instructions on page 2.
Regulator Installation

1. If using N3044 regulator, make sure voltage selection switch on regulator is appropriate for type of battery used. Factory setting for switch is position 2. See Table 1 below for setpoint options.

2. Align regulator tabs with screw holes on alternator shell and secure with mounting screws. Torque screws to 8.5 Nm/75 lb. in.

3. Connect alternator-to-regulator harness to 5-pin receptacle on regulator.

4. If applicable, connect J1939/temperature-voltage sensor harness to 10-pin receptacle on N3261 or N3282 regulator. Harness sold separately.

5. Connect vehicle wire leads to P, D+, and IGN terminals. Torque hardware to 3.4 Nm/30 lb. in.

**CAUTION**
All cables must be supported within 300 mm (12 in.) to prevent twisting, loosening, and damage to terminals.

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**Table 1: N3044 Regulator Voltage Selection Switch Settings**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Voltage</th>
<th>Battery Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>27.5V</td>
<td>Maintenance (D)</td>
</tr>
<tr>
<td>2</td>
<td>28.0V</td>
<td>Maintenance-Free (Group 31)</td>
</tr>
<tr>
<td>3</td>
<td>28.5V</td>
<td>AGM</td>
</tr>
<tr>
<td>4</td>
<td>29.0V</td>
<td><strong>DO NOT USE POSITION #4</strong></td>
</tr>
</tbody>
</table>

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