The CEN A9-4077 Metri-Pack adapter harness allows compatible alternators with a Metri-Pack regulator harness to be retrofitted with a smart regulator.

Follow these instructions to properly install an A9-4077 Metri-Pack adapter harness.

1. Remove Existing Regulator:
   a. Turn off master switch or disconnect battery.
   b. Disconnect alternator-to-regulator harness from regulator.
   c. Disconnect wires from regulator terminals as necessary to remove regulator.
   d. Remove mounting screws and remove regulator.

2. Install New Regulator:
   a. Turn regulator over and make sure voltage selection switch setting is appropriate for type of battery used. If necessary, change switch setting. See Table 1 and Figure 1.
   b. Install regulator securely on alternator and torque regulator mounting hardware to 8.5 Nm/75 lb. in.

Refer to Figure 1 and connect regulator terminals as required by vehicle:

**IGN terminal (required):** Receives DC voltage from ignition source or multiplex in order to energize regulator. Connect ignition source or multiplex to regulator IGN terminal. Torque terminal hardware to 4.5 Nm/40 lb. in.

**P terminal (if required):** P terminal taps AC voltage from alternator, typically half the charge voltage (3A maximum), for use with a tachometer. If required, connect vehicle tachometer to regulator P terminal and torque terminal hardware to 4.5 Nm/40 lb. in.

**Voltage should be present at regulator IGN terminal when ignition is on or engine is running. No voltage should be present when ignition is off or engine is not running.**

**CAUTION** Harness must be secured with cable tie or clamp to prevent wires from rubbing or chafing.

If installing a J1939/sense harness, follow separate installation instructions provided with harness. Harness supplied separately.

3. Connect A9-4077 Harness to Regulator Harness:
   b. Connect round connector on A9-4077 harness to 6 pin connector on regulator and torque terminal hardware to 4.5 Nm/40 lb. in.

   **Torque terminal hardware to 4.5 Nm/40 lb. in.**

   **Torque mounting hardware to 8.5 Nm/75 lb. in.**

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### Table 1: Voltage Selection Switch Settings

<table>
<thead>
<tr>
<th>Switch Position</th>
<th>Remote Sensing Not Connected</th>
<th>Remote Sensing Connected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Select</td>
<td>Battery Type</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>27.5 V</td>
<td>Maintenance/8D</td>
</tr>
<tr>
<td>2</td>
<td>28.0 V</td>
<td>Maintenance-free (G31)</td>
</tr>
<tr>
<td>3</td>
<td>28.5 V</td>
<td>AGM</td>
</tr>
<tr>
<td>4</td>
<td>29.0 V</td>
<td></td>
</tr>
</tbody>
</table>