Subject:  Add-On Equipment Inoperative, Melted Terminals on Auxiliary Relay, New Auxiliary Battery Relay for Police Tahoe Vehicles

Attention:  This bulletin only applies to the Police Patrol Vehicles (PPV).

<table>
<thead>
<tr>
<th>Brand</th>
<th>Model</th>
<th>Model Year:</th>
<th>VIN:</th>
<th>Engine:</th>
<th>Transmission:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chevrolet</td>
<td>Tahoe PPV</td>
<td>from 2015 to 2019</td>
<td>from</td>
<td>to</td>
<td>All</td>
</tr>
</tbody>
</table>

Involved Region or Country
North America, N.A. Export Regions

Additional Options (RPOs)
Customer may comment on add-on equipment inoperative or possibly seeing melted terminals on the auxiliary battery relay.

Condition
The cause of the condition may be overheating of the relay during charging the auxiliary battery.

Correction
Replace the original relay with new relay service part, shown in the graphic above. The new relay is more heat tolerant and should resist melting and losing electrical contact.
Refer to the Service procedure below.

5333969
Service Procedure

1. Open the hood.
2. Before starting any repairs, disconnect the main battery ground cable AND the auxiliary battery ground cable, from the battery ground terminals.

3. Disconnect the 2-way connector (1) from the battery relay, located on driver side bulkhead.

4. Remove the 2 factory nuts (1) and the existing battery relay from the bulkhead.
5. Disconnect the 2 battery cables (2) going to existing battery relay on the vehicle bulkhead.

6. Install the new relay (1) on the existing mounting studs on the bulkhead, and reinstall the 2 factory nuts.
   **Tighten**
   Tighten the nuts to 9 N·m (80 lb in).
7. Install one piece of 1/4" dia. convoluted tubing loom (2), on the exposed section of battery cable, to be installed on the passenger side stud of the new relay.

8. Install the battery cable coming from the main battery to the passenger side stud (1) of the new relay.
9. Install the battery cable coming from the auxiliary battery to the driver side stud (2) of the new relay.
10. Make sure the cable orientation is as shown in the above graphic, with adequate strain relief.
11. Tighten battery cable studs (1) to torque.

**Tighten**
Tighten the studs to 7.5 N·m (66 lb in).

Important: Ensure the boots are fully seated over the power studs.

12. Install the rubber boots (2) over the relay battery studs, to protect both studs.

13. Connect the relay 2-way connector to the vehicle harness, mating the 2-way connector previously disconnected from the old relay.

14. As shown in the graphic above, secure the connector to the passenger side battery cable previously loomed, with one cable tie (3).

15. Re-connect the ground cable to the auxiliary battery ground terminal.

16. Re-connect the ground cable to the main battery ground terminal.

### Parts Information

<table>
<thead>
<tr>
<th>Causal Part</th>
<th>Description</th>
<th>Part Number</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>RELAY ASM-AUX BAT</td>
<td>84611502</td>
<td>1</td>
</tr>
</tbody>
</table>

### Warranty Information

For vehicles repaired under the Bumper-to-Bumper coverage (Canada Base Warranty coverage), use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

<table>
<thead>
<tr>
<th>Labor Operation</th>
<th>Description</th>
<th>Labor Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>4086968*</td>
<td>Auxiliary Battery Relay Replacement</td>
<td>0.2 hr</td>
</tr>
</tbody>
</table>

*This is a unique Labor Operation for Bulletin use only.