**Firmware/Software Version:** PE3 V3.03.02 and higher

**Vehicle:** Any using GM LS2 or LS9 coils

**Additional Notes:**
This Application Note covers GM LS2 and LS9 ‘coil near plug’ ignition coils. These coils are used on a variety of GM product family vehicles.

This coil may require an external pull-up resistor to be added by the user to the wire harness in order to drive the coil.

If using a PE3 ECU configured to drive ‘smart coils’ (i.e. PE3-8405) no external resistor is required.

If using a PE3 ECU not configured for smart coils (i.e. PE3-8400), an external resistor for each coil is required.

See wiring to the right.

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## Coil Configuration Details

<table>
<thead>
<tr>
<th>Trigger Mode</th>
<th>External igniter. Must ‘Enable External Coil Drivers’ in the ignition tab of ‘Setup Engine’</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coil Charge Time</td>
<td>see chart below</td>
</tr>
<tr>
<td>Special Features</td>
<td>May require an external 1000 ohm pull-up resistor. See wiring diagram to the right.</td>
</tr>
</tbody>
</table>

### Wiring Using Standard ECU (i.e. PE3-8400)

![Wiring Diagram for Standard ECU](image)

### Wiring Using Smart Coil ECU (i.e. PE3-8405)

![Wiring Diagram for Smart ECU](image)

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**Disclaimer:** The information contained in this document is believed to be correct. It is up to the end user to verify the correct setup for his/her application. ---