**C175b**

12A581

Powertrain Control Module (PCM)

Pin Circuit Circuit function

<table>
<thead>
<tr>
<th>Pin</th>
<th>Circuit</th>
<th>Circuit function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>2</td>
<td>1827 (WH/LG)</td>
<td>CAN Bus +</td>
</tr>
<tr>
<td>3</td>
<td>1828 (PK/LG)</td>
<td>CAN Bus –</td>
</tr>
<tr>
<td>4</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>5</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>6</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>7</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>8</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>9</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>10</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>11</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>12</td>
<td>1861 (RD)</td>
<td>Voltage supplied at all times (overload protected)</td>
</tr>
<tr>
<td>13</td>
<td>1865 (WH/OG)</td>
<td>Voltage supplied at all times (overload protected)</td>
</tr>
<tr>
<td>14</td>
<td>975 (BN/YE)</td>
<td>Clockwise (CW) motor 4x4 relay control</td>
</tr>
<tr>
<td>15</td>
<td>976 (OG)</td>
<td>Counterclockwise (CCW) motor 4x4 relay control</td>
</tr>
<tr>
<td>16</td>
<td>605 (RD)</td>
<td>4x4 center axle disconnect solenoid control</td>
</tr>
<tr>
<td>17</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>18</td>
<td>331 (PK/YE)</td>
<td>A/C clutch relay control</td>
</tr>
<tr>
<td>19</td>
<td>347 (BK/YE)</td>
<td>A/C clutch cycling pressure switch signal</td>
</tr>
<tr>
<td>20</td>
<td>–</td>
<td>not used</td>
</tr>
</tbody>
</table>

**Pin**

<table>
<thead>
<tr>
<th>Pin</th>
<th>Circuit</th>
<th>Circuit function</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>3011 (BK/OG)</td>
<td>Electronic Throttle Control (ETC) module Reference voltage</td>
</tr>
<tr>
<td>22</td>
<td>904 (LG/RD)</td>
<td>Generator, Communication</td>
</tr>
<tr>
<td>23</td>
<td>3204 (LG/OG)</td>
<td>Generator, monitor</td>
</tr>
<tr>
<td>24</td>
<td>1799 (YE/BK)</td>
<td>Air bag deployment signal</td>
</tr>
<tr>
<td>25</td>
<td>3012 (WH)</td>
<td>Accelerator pedal position sensor signal 1</td>
</tr>
<tr>
<td>26</td>
<td>3010 (TN)</td>
<td>Accelerator pedal position sensor signal 2</td>
</tr>
<tr>
<td>27</td>
<td>3015 (WH/RD)</td>
<td>Accelerator pedal position sensor signal 3</td>
</tr>
<tr>
<td>28</td>
<td>3013 (GY/BK)</td>
<td>Electronic Throttle Control (ETC) module Reference voltage</td>
</tr>
<tr>
<td>29</td>
<td>351 (BN/WH)</td>
<td>Fuel tank pressure transducer sensor Reference voltage</td>
</tr>
<tr>
<td>30</td>
<td>928 (LB/OG)</td>
<td>Fuel pump driver module monitor</td>
</tr>
<tr>
<td>31</td>
<td>682 (DB)</td>
<td>Four–wheel drive switch Signal return</td>
</tr>
<tr>
<td>32</td>
<td>780 (DB)</td>
<td>Four–wheel drive switch signal</td>
</tr>
<tr>
<td>33</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>34</td>
<td>1785 (LG/VT)</td>
<td>Starter relay control</td>
</tr>
<tr>
<td>35</td>
<td>1269 (OG/RD)</td>
<td>Anti–theft ON indicator</td>
</tr>
<tr>
<td>36</td>
<td>1215 (WH/LG)</td>
<td>TX, signal</td>
</tr>
<tr>
<td>Pin</td>
<td>Circuit</td>
<td>Circuit function</td>
</tr>
<tr>
<td>-----</td>
<td>---------</td>
<td>------------------</td>
</tr>
<tr>
<td>37</td>
<td>1216</td>
<td>RX, signal</td>
</tr>
<tr>
<td></td>
<td>(GY/OG)</td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>39</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>40</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>41</td>
<td>967</td>
<td>Mass Air Flow (MAF) sensor signal</td>
</tr>
<tr>
<td></td>
<td>(LB/RD)</td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>968</td>
<td>Mass Air Flow (MAF) sensor Signal return</td>
</tr>
<tr>
<td></td>
<td>(TN/LB)</td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>743</td>
<td>Intake Air Temperature (IAT) sensor signal</td>
</tr>
<tr>
<td></td>
<td>(GY)</td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>791</td>
<td>Fuel tank pressure transducer sensor signal</td>
</tr>
<tr>
<td></td>
<td>(RD/PK)</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>224</td>
<td>Transmission overdrive cancel switch, switched power</td>
</tr>
<tr>
<td></td>
<td>(TN/WH)</td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>599</td>
<td>Brake pedal position switch, switched power</td>
</tr>
<tr>
<td></td>
<td>(PK/LG)</td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>307</td>
<td>Deactivator switch output</td>
</tr>
<tr>
<td></td>
<td>(BK/YE)</td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>49</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>50</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>51</td>
<td>361</td>
<td>PCM power relay switched power</td>
</tr>
<tr>
<td></td>
<td>(RD)</td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>361</td>
<td>PCM power relay switched power</td>
</tr>
<tr>
<td></td>
<td>(RD)</td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>361</td>
<td>PCM power relay switched power</td>
</tr>
<tr>
<td></td>
<td>(RD)</td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>1683</td>
<td>Voltage supplied at all times (overload protected)</td>
</tr>
<tr>
<td></td>
<td>(DG)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pin</th>
<th>Circuit</th>
<th>Circuit function</th>
</tr>
</thead>
<tbody>
<tr>
<td>55</td>
<td>107</td>
<td>Module programming signal</td>
</tr>
<tr>
<td></td>
<td>(VT)</td>
<td></td>
</tr>
<tr>
<td>56</td>
<td>151</td>
<td>Auxiliary speed controls, steering wheel feed</td>
</tr>
<tr>
<td></td>
<td>(LB/BK)</td>
<td></td>
</tr>
<tr>
<td>57</td>
<td>848</td>
<td>Auxiliary speed controls, steering wheel Signal return</td>
</tr>
<tr>
<td></td>
<td>(DG/OG)</td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>359</td>
<td>Signal return</td>
</tr>
<tr>
<td></td>
<td>(GY/RD)</td>
<td></td>
</tr>
<tr>
<td>59</td>
<td>3014</td>
<td>Electronic Throttle Control (ETC) module Signal return</td>
</tr>
<tr>
<td></td>
<td>(BK/WH)</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>61</td>
<td>91</td>
<td>Evaporative emission (EVAP) canister vent valve, control</td>
</tr>
<tr>
<td></td>
<td>(VT/WH)</td>
<td></td>
</tr>
<tr>
<td>62</td>
<td>925</td>
<td>Fuel pump driver module control</td>
</tr>
<tr>
<td></td>
<td>(WH/YE)</td>
<td></td>
</tr>
<tr>
<td>63</td>
<td>679</td>
<td>vehicle speed signal</td>
</tr>
<tr>
<td></td>
<td>(GY/BK)</td>
<td></td>
</tr>
<tr>
<td>64</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>65</td>
<td>–</td>
<td>not used</td>
</tr>
<tr>
<td>66</td>
<td>567</td>
<td>Ground</td>
</tr>
<tr>
<td></td>
<td>(LB/YE)</td>
<td></td>
</tr>
<tr>
<td>67</td>
<td>570</td>
<td>Ground</td>
</tr>
<tr>
<td></td>
<td>(BK/WH)</td>
<td></td>
</tr>
<tr>
<td>68</td>
<td>570</td>
<td>Ground</td>
</tr>
<tr>
<td></td>
<td>(BK/WH)</td>
<td></td>
</tr>
<tr>
<td>69</td>
<td>570</td>
<td>Ground</td>
</tr>
<tr>
<td></td>
<td>(BK/WH)</td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>570</td>
<td>Ground</td>
</tr>
<tr>
<td></td>
<td>(BK/WH)</td>
<td></td>
</tr>
</tbody>
</table>