24-Volt ABS
Blink Code Identification Guide

ECU Identification

CAB MOUNTED
FRAME MOUNTED
BASIC
Instructions

1. Hold 1 Second. Light is ON.

2. Count Flashes for 1st Digit (1-8).

3. Count Flashes for 2nd Digit (1-6).


*1-6 Key

1  Right front steer axle (curb side)
2  Left front steer axle (driver's side)
3  Right forward/rear tandem drive axle (curb side)
4  Left forward/rear tandem drive axle (driver's side)
5  Right rear/rear tandem drive axle (curb side)
6  Left rear/rear tandem drive axle (driver's side)

<table>
<thead>
<tr>
<th>Blink Code</th>
<th>1st Digit</th>
<th>2nd Digit</th>
<th>Troubleshooting and Repair Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td></td>
<td>System Okay.</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>1-6*</td>
<td>Check ABS Modulator valve, valve cable, and connectors. Verify 11-21 ohms resistance (ABS modulator valve).</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>1-6*</td>
<td>Adjust wheel sensor to touch tooth wheel. Check sensor gap. Check for loose wheel bearings or excessive hub runout. Verify minimum 0.2 volts AC output @ 30 RPM.</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>1-6*</td>
<td>Check sensor, sensor cable, and connectors. Verify 900-2000 ohms resistance.</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>1-6*</td>
<td>Check for tire size mismatch or tooth wheel difference.</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>1-6*</td>
<td>Check for damaged tooth wheel.</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td></td>
<td>Check for proper data link connection (J1922 and J1939).</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td></td>
<td>Check ATC Valve, valve cables, and connectors. Verify 28-49 ohms resistance.</td>
</tr>
<tr>
<td>7</td>
<td>3</td>
<td></td>
<td>Check brake relay connections.</td>
</tr>
<tr>
<td>7</td>
<td>4</td>
<td></td>
<td>Check ABS warning light connections.</td>
</tr>
<tr>
<td>7</td>
<td>5</td>
<td></td>
<td>Verify proper ATC set-up. Reconfigure if required.</td>
</tr>
<tr>
<td>7</td>
<td>6</td>
<td></td>
<td>Verify accuracy of blink code and clear from ECU memory.</td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td></td>
<td>Check vehicle voltage and supply to ECU (18-30 volts).</td>
</tr>
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<td>8</td>
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<td></td>
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<td></td>
<td>Verify accuracy of blink code and clear from ECU memory. If code does not clear, it may be necessary to reconfigure or replace the ECU.</td>
</tr>
<tr>
<td>8</td>
<td>5</td>
<td></td>
<td>Check ABS ground connections.</td>
</tr>
</tbody>
</table>
Blink Code Troubleshooting and Repair

1st Digit 2nd Digit Action Required

1 1 System Okay.
2 1-6* Check ABS Modulator valve, valve cable, and connectors. Verify 11-21 ohms resistance (ABS modulator valve).
3 1-6* Adjust wheel sensor to touch tooth wheel. Check sensor gap. Check for loose wheel bearings or excessive hub runout. Verify minimum 0.2 volts AC output @ 30 RPM.
4 1-6* Check sensor, sensor cable, and connectors. Verify 900-2000 ohms resistance.
5 1-6* Check for tire size mismatch or tooth wheel difference.
6 1-6* Check for damaged tooth wheel.
7 1 Check for proper data link connection (J1922 and J1939).
7 2 Check ATC Valve, valve cables, and connectors. Verify 28-49 ohms resistance.
7 3 Check brake relay connections.
7 4 Check ABS warning light connections.
7 5 Verify proper ATC set-up. Reconfigure if required.
7 6 Verify accuracy of blink code and clear from ECU memory.
8 1 Check vehicle voltage and supply to ECU (18-30 volts).
8 2 Check vehicle voltage (18-30 volts). Verify accuracy of blink code and clear from ECU memory.
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8 5 Check ABS ground connections.

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D Version
System Configuration Layout
4S/4M ABS

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For further information refer to Maintenance Manual 30. WABCO North America Customer Care at 855-228-2303