

**To view units with potential issues, please follow the steps below:**

- 1) In Checkmate, Click Reports
- 2) Select the Exceptions Report
- 3) Select the Time Frame and Vehicles in Question
- 4) Select System Rules from the drop down, and select the following from Exception rules.

- Open Circuit on Antenna ( Entire Organization)
- Power On Reset ( Entire Organization)
- Short Circuit on Antenna ( Entire Organization)
- Voltage below 8.5v ( Entire Organization)

- 5) Select "Summary" option when running report.
- 6) Example results are shown below

Device	Driver	Exception Rule	First Incident	Last Incident	Duration	Distance (km)	Incident Count
<b>Open Circuit on Antenna</b>							
GO4 LIVE GSM TW	#242885803	Open Circuit on Antenna	05/12/2008 3:57:10 PM	18/01/2009 2:19:23 PM	00:00:00	0.00	29
GO4 LIVE CDMA TP 110	#343419817	Open Circuit on Antenna	08/01/2009 11:04:16 AM	08/01/2009 11:06:59 AM	00:00:00	0.00	2
					00:00:00	0.00	
<b>Power On Reset</b>							
GO4 LIVE GSM TW	#242885803	Power On Reset	05/12/2008 11:01:46 AM	05/01/2009 7:53:41 AM	00:00:00	0.00	7
TW Suburban J1850 Add on	#224715737	Power On Reset	07/01/2009 6:34:48 PM	07/01/2009 6:34:48 PM	00:00:00	0.00	1
GO4 LIVE CDMA TP 110	#343419817	Power On Reset	08/01/2009 11:04:16 AM	08/01/2009 6:05:35 PM	00:00:00	0.00	3
					00:00:00	0.00	
<b>Voltage below 8.5v</b>							
GO4 LIVE GSM TW	#242885803	Voltage below 8.5v	05/12/2008 10:34:40 AM	05/12/2008 10:46:19 AM	00:00:00	0.00	2
GO4 LIVE CDMA TP 110	#343419817	Voltage below 8.5v	27/12/2008 9:55:01 AM	27/12/2008 9:55:01 AM	00:00:00	0.00	1
					00:00:00	0.00	

The results indicate the following vehicles require GPS Antenna Inspection

- i. Vehicle GO4 LIVE GSM TW has had 29 Open Circuit on GPS conditions within the last 2 months.
- ii. Vehicle GO4 LIVE CDMA TP has had 2 Open Circuit on GPS conditions on January 8.

The following vehicles may have a weak battery (Voltage below 8.5 V) or battery drained:

- i. GO4 LIVE GSM TW – 2 incidents on December 5, 2008
- ii. GO4 Live CDMA TP – 1 Incident on December 27, 2008

To view incidents in detail, select the vehicle and time frame in question and click "Show Details" instead of "Summary". Please see Checkmate Exception Rule Definitions on the next page for solutions to system exceptions defined in the exceptions report.

**Checkmate Exception Rule Definitions:**

Issue	Definition/Cause	Solution
<b>Voltage Below 8.5 V (Brown Out Reset)</b>	<ol style="list-style-type: none"> <li>1. Voltage drop below 8.5 V will trigger a Brown Out Reset</li> <li>2. In some cases, it may occur only on crank and may indicate a bad connection or a weak battery.</li> </ol>	Consider testing this battery.
<b>Harsh Braking</b>	<ol style="list-style-type: none"> <li>1. Occurs when there is a change in speed of 17 km/h in one second, (11 mph in one second)</li> </ol>	Driver Behavior
<b>Photograph</b>	<ol style="list-style-type: none"> <li>1. Applies to GPS2GO Only</li> <li>2. Data Records contain a picture</li> </ol>	n/a
<b>Open Circuit On Antenna</b>	<p>The GPS circuitry has detected an open circuit on the GPS Antenna. Possible Causes:</p> <ol style="list-style-type: none"> <li>1. The GPS antenna has been disconnected/tampered with</li> <li>2. The GPS antenna may be damaged</li> <li>3. A bad connection between the GPS antenna wire and GPS pigtail (extension inside the black box)</li> <li>4. A bad connection between the GPS circuitry and the GPS pigtail (extension inside the black box)</li> </ol>	<ol style="list-style-type: none"> <li>1. Determine if the GPS antenna is still disconnected. You will hear 3 long beeps a few seconds after ignition on</li> <li>2. Inspect the GPS antenna for damage and check the connection described.</li> <li>3. Tampering Investigation may be required. This type of error will occur if the GPS antenna is removed and reconnected.</li> </ol>
<b>Power On Reset</b>	<ol style="list-style-type: none"> <li>1. Occurs because the unit loses power completely</li> <li>2. This may indicate a bad ground connection</li> <li>3. This may indicate a bad 12 V connection</li> <li>4. Check fuse on 12V line(red wire)</li> </ol>	<ol style="list-style-type: none"> <li>1. Determine if the vehicle has been in for maintenance</li> <li>2. Determine if the LED on the L-bracket is flashing every second to indicate power.</li> <li>3. Tampering investigation may be required. This type of error will occur if the power is removed and reconnected.</li> </ol>
<b>Short Circuit on Antenna</b>	<ol style="list-style-type: none"> <li>1. Occurs if a short occurs on the GPS antenna as a result of either damage or tampering.</li> <li>2. A bad connection between the GPS antenna wire and GPS pigtail (extension inside the black box)</li> <li>3. A bad connection between the GPS circuitry and the GPS pigtail (extension inside the black box)</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the Antenna for Damage</li> <li>2. Check the connections</li> </ol>