

CDR File Information

Vehicle Identification Number	0G4K00000X0000000
Investigator	Vetronix Corp.
Case Number	Sample
Investigation Date	February 18, 2000
Crash Date	None
Filename	SAMPLE.CDR
Saved on	2/18/00 7:18:19 AM
Collected with CDR version	Crash Data Retrieval Tool 1.00
Reported with CDR version	Crash Data Retrieval Tool 2.900
Event(s) recovered	Deployment Non-Deployment

SDM Data Limitations

SDM Recorded Crash Events:

There are two types of SDM recorded crash events. The first is the Non-Deployment Event. A Non-Deployment Event is an event severe enough to "wake up" the sensing algorithm but not severe enough to deploy the air bag(s). It contains Pre-Crash and Crash data. The SDM can store up to one Non-Deployment Event. This event can be overwritten by an event that has a greater SDM recorded vehicle forward velocity change. This event will be cleared by the SDM after the ignition has been cycled 250 times.

The second type of SDM recorded crash event is the Deployment Event. It also contains Pre-Crash and Crash data. Deployment Events cannot be overwritten or cleared from the SDM. Once the SDM has deployed the air bag, the SDM must be replaced.

The data in the Non-Deployment Event file will be locked after a Deployment Event, if the Non-Deployment Event occurred within 5 seconds before the Deployment Event unless a Deployment Level Event occurs within 5 seconds after the Deployment Event, and then the Deployment Level Event will overwrite the Non-Deployment Event file.

SDM Data Limitations:

-SDM Recorded Vehicle Forward Velocity Change reflects the change in forward velocity that the sensing system experienced during the recorded portion of the event. SDM Recorded Vehicle Forward Velocity Change is the change in velocity during the recording time and is not the speed the vehicle was traveling before the event, and is also not the Barrier Equivalent Velocity. This data should be examined in conjunction with other available physical evidence from the vehicle and scene when assessing occupant or vehicle forward velocity change. The SDM records the first 300 milliseconds of Vehicle Forward Velocity Change after Algorithm Enable. The maximum value that can be recorded for Vehicle Forward Velocity Change is 56 MPH.

-SDM Recorded Vehicle Speed accuracy can be affected if the vehicle has had the tire size or the final drive axle ratio changed from the factory build specifications.

-Brake Switch Circuit Status indicates the status of the brake switch circuit.

-Pre-Crash Electronic Data Validity Check Status indicates "Data Invalid" if the SDM receive an invalid message from the module sending the pre-crash data.

-Driver's Belt Switch Circuit Status indicates the status of the driver's seat belt switch circuit.

-The Time between Non-Deployment and Deployment Events is displayed in seconds. If the time between the two events is greater than five seconds, "N/A" is displayed in place of the time.

-If power to the SDM is lost during a crash event, all or part of the crash record may not be recorded.

SDM Data Source:

All SDM recorded data is measured, calculated, and stored internally, except for the following:

-Vehicle Speed, Engine Speed, and Percent Throttle data are transmitted once a second by the Powertrain Control Module (PCM), via the vehicle's communication network, to the SDM.

-Brake Switch Circuit Status data is transmitted once a second by either the ABS module or the PCM, via the vehicle's communication network, to the SDM.

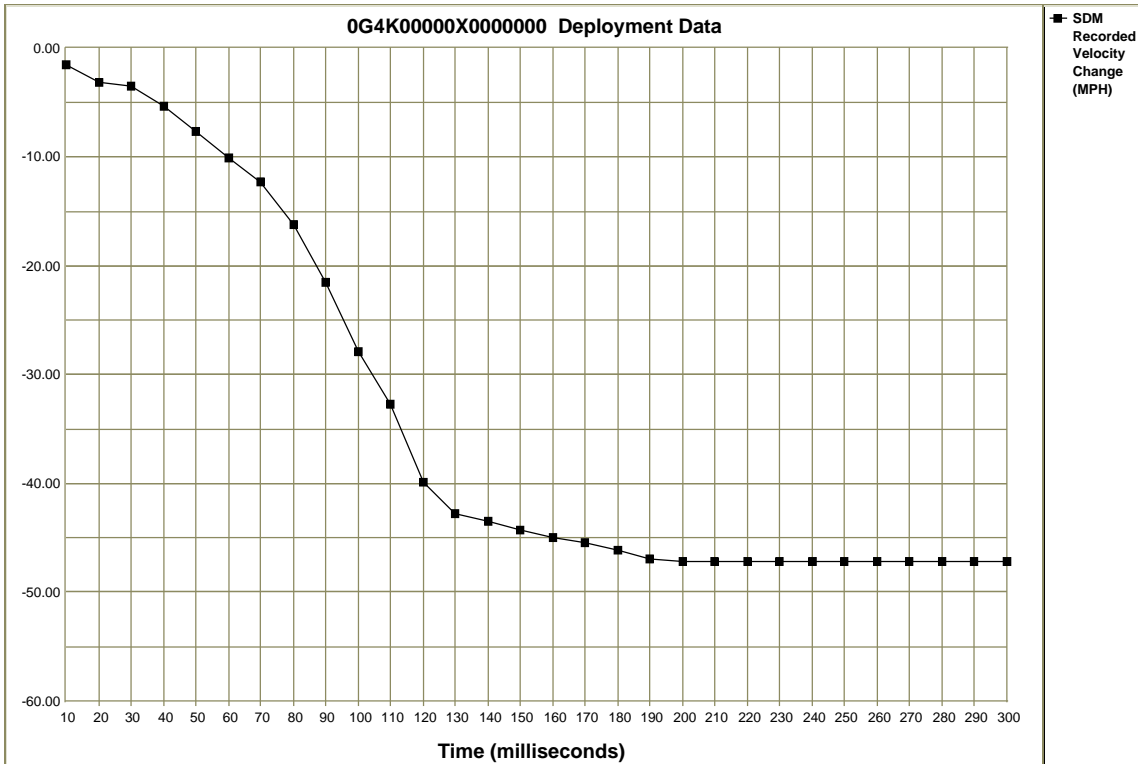
-The Driver's Belt Switch Circuit is wired directly to the SDM.

System Status At Deployment

SIR Warning Lamp Status	OFF
Driver's Belt Switch Circuit Status	UNBUCKLED
Ignition Cycles At Deployment	187
Ignition Cycles At Investigation	213
Time From Algorithm Enable to Deployment Command Criteria Met (msec)	18.75
Time Between Non-Deployment And Deployment Events (sec)	N/A
Event Recording Complete	Yes

Seconds Before AE	Vehicle Speed (MPH)	Engine Speed (RPM)	Percent Throttle
-5	57	4032	100
-4	65	4160	70
-3	62	2304	2
-2	55	1088	2
-1	47	896	2

Seconds Before AE	Brake Switch Circuit Status
-8	ON
-7	ON
-6	ON
-5	OFF
-4	OFF
-3	ON
-2	ON
-1	ON



Time (milliseconds)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Recorded Velocity Change (MPH)	-1.54	-3.07	-3.51	-5.27	-7.68	-10.09	-12.29	-16.24	-21.50	-27.86	-32.69	-39.93	-42.78	-43.44	-44.32
Time (milliseconds)	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
Recorded Velocity Change (MPH)	-44.98	-45.42	-46.07	-46.95	-47.17	-47.17	-47.17	-47.17	-47.17	-47.17	-47.17	-47.17	-47.17	-47.17	-47.17

System Status At Non-Deployment

SIR Warning Lamp Status	OFF
Driver's Belt Switch Circuit Status	UNBUCKLED
Ignition Cycles At Non-Deployment	101
Ignition Cycles At Investigation	213
Algorithm Enable to Maximum SDM Recorded Velocity Change (msec)	71.25
Maximum SDM Recorded Velocity Change (MPH)	-5.05
A Deployment was Commanded Prior to this Event	No
Event Recording Complete	Yes

Seconds Before AE	Vehicle Speed (MPH)	Engine Speed (RPM)	Percent Throttle
-5	4	0	0
-4	4	0	0
-3	4	0	0
-2	4	0	0
-1	4	0	0

Seconds Before AE	Brake Switch Circuit Status
-8	OFF
-7	OFF
-6	OFF
-5	OFF
-4	OFF
-3	OFF
-2	OFF
-1	OFF



Time (milliseconds)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Recorded Velocity Change (MPH)	-0.44	-1.10	-1.97	-3.07	-3.73	-4.61	-4.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time (milliseconds)	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
Recorded Velocity Change (MPH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hexadecimal Data

B600: FF F7 7D FF FF D6 7C FF
B608: FF BB 7B FF FF FF FF FF
B610: FF FF 85 85 FF FF 84 84
B618: FF FF 83 83 FF F8 7E FF
B620: E9 E9 FF FF FF FF FF FF
B628: FF 55 FF FF 83 FF FF F7
B630: FF FF 7F F0 F8 F1 EF E7
B638: DC D1 C7 B5 9D 80 6A 49
B640: 3C 39 35 32 30 2D 29 28
B648: 28 28 28 28 28 28 28 28
B650: 28 28 FF 44 ED FF FF FF
B658: 00 83 F0 FF 1F F5 F5 18
B660: FF FA FA FA 4D 00 FF F1
B668: EE DB BE C0 FF B4 A7 9C
B670: 97 A3 FF FF FF 9D FF FF
B678: FF FF FF FF C6 E8 FD FA
B680: F6 F1 EE EA E9 FF FF FF
B688: FF FF FF FF FF FF FF FF
B690: FF FF FF FF FF FF FF FF
B698: FF FF FF FF FF 9A FF FF
B6A0: FF 9D 5F F3 F5 FF FF FF
B6A8: FF FF FF FF FF FF FF FF
B6B0: FF FF FF F8 F8 F8 F8 F8
B6B8: FF FF FF FF FF FF FF FF
B6C0: FF FF 55 FF FF FF FF FF
B6C8: FF FF 9B FD 42 41 32 4C
B6D0: 37 42 41 53 99 94 4B 39
B6D8: 01 3F E9 E9 FF 8A 02 DE
B6E0: FF F3 CA FF 3F FF FF FF
B6E8: FF FE FF FF FF 55 FF FF
B6F0: FF FF FE 00 FF F5 FF 2A
B6F8: FF FF FF FF FF FF FF FF
B700: FF FF FF FF FF FF FF FF
B708: 43 AA 92 34 43 55 57 E9
B710: E9 E9 E9 E9 E9 E9 E9 00
B718: E7 C0 00 00 00 04 15 80
B720: 41 00 12 A0 00 00 02 00
B728: FF 28 06 F0 05 60 05 0E
B730: 22 64 49 49 49 49 4E 5A
B738: 61 61 61 61 69 72 7B 85
B740: 90 99 A0 A9 B0 B9 BE C4
B748: C9 CE D8 DC E3 E7 ED F3
B750: F6 FC FE 41 43 44 47 48
B758: 4A 4D 4F 51 54 56 58 5A
B760: 5D 5F 61 63 65 66 68 69
B768: 6A 6B 6C 6D 6E 6F 6F 70
B770: 70 71 71 72 72 72 73 73
B778: 73 73 73 73 73 73 73 73
B780: 73 73 73 73 73 73 73 73
B788: 73 73 73 73 73 73 73 73
B790: 73 73 73 73 73 73 00 B8
B798: 01 10 03 11 35 1E 11 0C
B7A0: 02 28 AA 00 50 51 49 49
B7A8: 49 49 49 49 49 49 49 49
B7B0: 49 49 49 49 49 49 49 49
B7B8: 49 49 49 49 49 49 49 49
B7C0: 49 49 49 49 49 49 49 49
B7C8: 49 49 49 49 49 49 49 49
B7D0: 49 49 49 49 49 49 49 49
B7D8: 49 49 49 49 49 49 49 49
B7E0: 49 49 49 49 49 49 49 49
B7E8: 49 49 49 49 49 49 49 49
B7F0: 49 49 49 49 49 49 7F 7F

B7F8: 0D 00 00 B0 11 7F AA FF

Comments

This is a sample file.

Note: comments can be updated after a file has been saved.