

## CDR File Information

Vehicle Identification Number	1GNEK13R9VJ*****
Investigator	
Case Number	
Investigation Date	
Crash Date	
Filename	2003-81-057-V1.CDR
Saved on	xxxxx
Collected with CDR version	Crash Data Retrieval Tool 2.10
Reported with CDR version	Crash Data Retrieval Tool 2.900
Event(s) recovered	Deployment Deployment Level

## 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). The SDM can store up to one Non-Deployment Event. This event can be overwritten by an event that has a greater SDM recorded 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. The SDM can store up to two different Deployment Events, if they occur within five seconds of one another. 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.

-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. An indication of a loss of power would be if the ignition cycles at the event is recorded as zero. Data recorded after that may not be reliable, such as Time Between Non-Deployment and Deployment Events, Driver Belt Switch Circuit Status, and Passenger SIR Suppression Switch Circuit Status.

### SDM Data Source:

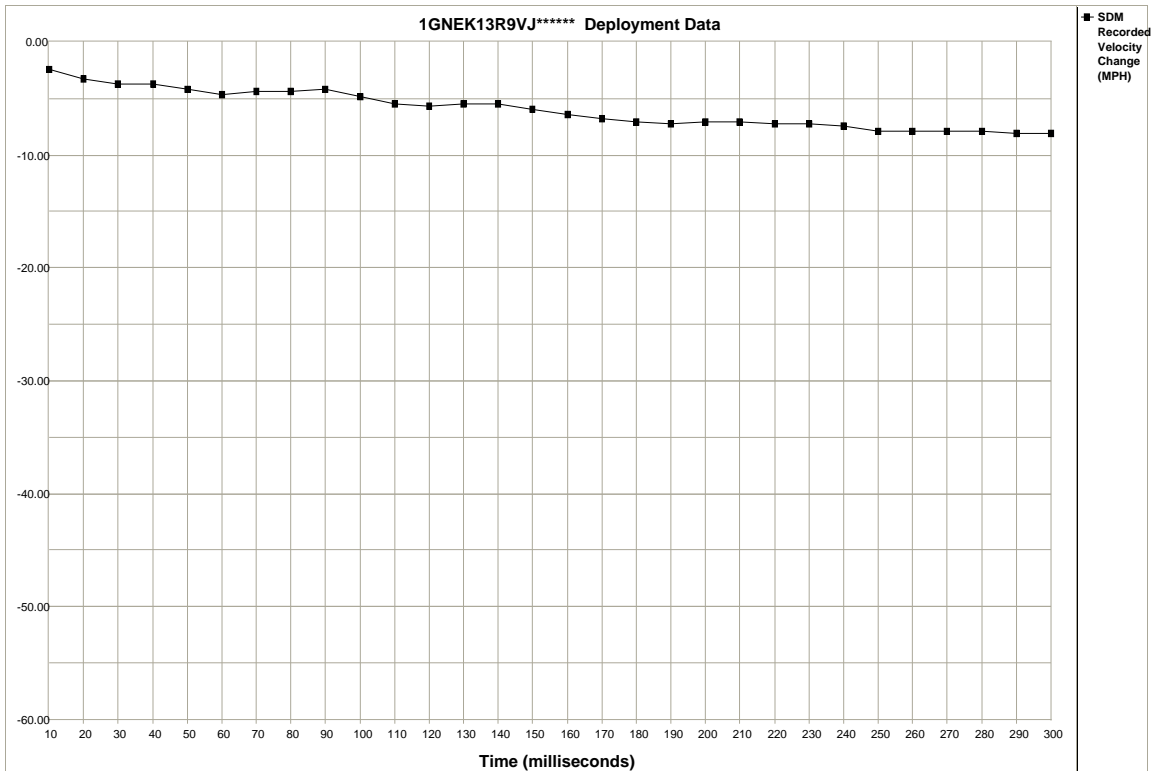
All SDM recorded data is measured, calculated, and stored internally, except for the following:

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

-The Passenger Front Air Bag Suppression Switch Circuit is wired directly to the SDM.

## System Status At Deployment

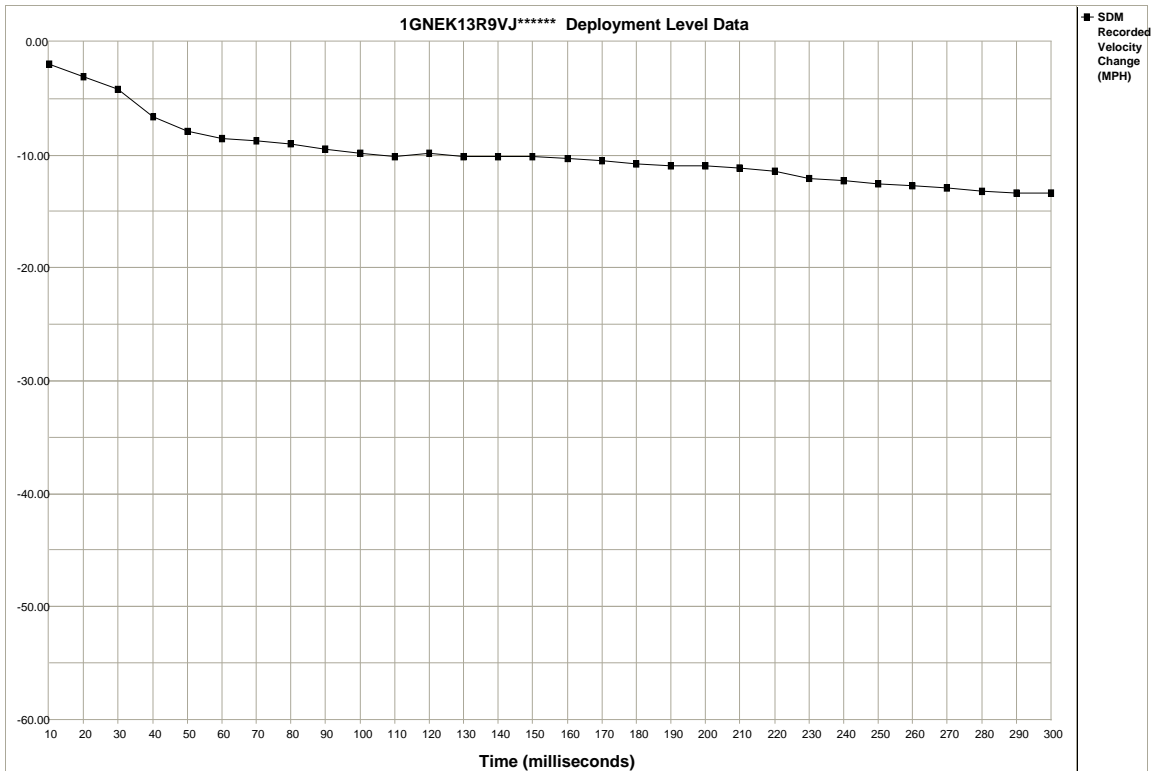
SIR Warning Lamp Status	OFF
Driver's Belt Switch Circuit Status	BUCKLED
Passenger Front Air Bag Suppression Switch Circuit Status	Air Bag Not Suppressed
Ignition Cycles At Deployment	12387
Ignition Cycles At Investigation	12388
Time From Algorithm Enable To Deployment Command (msec)	7.5
Time Between Non-Deployment And Deployment Events (sec)	N/A



Time (milliseconds)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Recorded Velocity Change (MPH)	-2.41	-3.29	-3.73	-3.73	-4.17	-4.61	-4.39	-4.39	-4.17	-4.83	-5.49	-5.70	-5.49	-5.49	-5.92
Time (milliseconds)	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
Recorded Velocity Change (MPH)	-6.36	-6.80	-7.02	-7.24	-7.02	-7.02	-7.24	-7.24	-7.46	-7.90	-7.90	-7.90	-7.90	-8.12	-8.12

## System Status At Deployment Level

SIR Warning Lamp Status	OFF
Driver's Belt Switch Circuit Status	BUCKLED
Ignition Cycles At Deployment Level	12387
Ignition Cycles At Investigation	12388
Time From Algorithm Enable To Deployment Command (msec)	8.75
Time Between Deployment And Deployment Level Events (sec)	.78



Time (milliseconds)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Recorded Velocity Change (MPH)	-1.97	-3.07	-4.17	-6.58	-7.90	-8.56	-8.78	-9.00	-9.43	-9.87	-10.09	-9.87	-10.09	-10.09	-10.09
Time (milliseconds)	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
Recorded Velocity Change (MPH)	-10.31	-10.53	-10.75	-10.97	-10.97	-11.19	-11.41	-12.07	-12.29	-12.51	-12.73	-12.94	-13.16	-13.38	-13.38

## Hexadecimal Data

```
B600: 20 50 48 00 00 00 00 00
B608: 00 AA 00 00 00 00 00 00
B610: 00 AA 00 00 00 31 F9 8A
B618: F9 F9 F9 F9 F9 F9 FF 00
B620: AA AA AA AA 00 00 00 7D
B628: 00 00 40 06 0B 0F 11 11
B630: 13 15 14 14 13 16 19 1A
B638: 19 19 1B 1D 1F 20 21 20
B640: 20 21 21 22 24 24 24 24
B648: 25 25 30 63 0A 00 00 FF
B650: 00 55 AA AA AA 55 03 AA
B658: 00 00 81 00 40 40 07 09
B660: 0E 13 1E 24 27 28 29 2B
B668: 2D 2E 2D 2E 2E 2E 2F 30
B670: 31 32 32 33 34 37 38 39
B678: 3A 3B 3C 3D 3D 30 63 0B
B680: 00 00 27 00 55 AA AA AA
B688: 55 03 00 00 7D FA 00 00
B690: 7D FA 00 00 7D FA 06 4D
B698: 81 00 00 00 00 00 00 00
B6A0: 7D FA 00 00 7D FA 00 00
B6A8: 7D FA 00 00 00 00 00 00
B6B0: 00 00 00 00 00 00 00 00
B6B8: 00 00 00 00 00 A2 5F C4
B6C0: 3B 3F 32 00 FE 64 02 00
B6C8: 00 AA 00 00 00 00 01 01
B6D0: BE A6 CF AA CF AF BE AC
B6D8: D6 6A B4 D9 D9 A0 00 00
B6E0: 00 00 40 78 AA 00 03 4B
B6E8: 03 AA 00 00 00 00 00 00
B6F0: FF 08 F0 05 50 06 12 1C
B6F8: 58 5B 5B 5B 5B 5B 5B 5C
B700: 6B 77 82 8B 91 95 97 98
B708: 99 9C A3 AF B9 C1 CA D2
B710: DC E7 F1 F9 40 42 43 44
B718: 46 48 4B 4C 4E 55 5B 5D
B720: 62 66 68 69 6C 6E 6F 70
B728: 71 71 72 72 73 73 73 73
B730: 73 73 74 75 76 76 77 78
B738: 78 78 79 79 79 79 79 79
B740: 79 7A 7A 7A 7A 7A 7A 7A
B748: 7A 7A 7B 7B 7C 7D 7D 7D
B750: 7E FF FF FF FF FF FF FF
B758: FF FF FF FF FF 00 3C 01
B760: 40 0A 06 38 18 0A 10 02
B768: 08 AA 00 50 1C 5B 5B 5B
B770: 5B 5B 5B 5C 6B 77 82 8B
B778: 91 95 97 98 99 9C A3 AF
B780: B9 C1 CA D2 DC E7 F1 F9
B788: 40 42 43 44 46 47 49 4B
B790: 4C 4D 4E 4F 51 53 54 55
B798: 56 57 59 5A 5B 5C 5D 5E
B7A0: 5E 5F 60 60 61 62 62 62
B7A8: 63 63 63 64 64 64 65 65
B7B0: 66 66 66 66 66 66 66 66
B7B8: 66 66 67 68 68 00 00 00
B7C0: 00 00 B5 89 00 00 00 00
B7C8: 00 00 00 00 00 00 00 00
B7D0: 00 00 00 00 00 00 00 00
B7D8: 00 00 00 00 00 00 00 00
B7E0: 00 00 00 00 00 00 00 00
B7E8: 00 00 00 00 00 00 00 00
B7F0: 00 00 00 00 00 00 00 00
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B7F8: 00 00 A5 A5 A5 A5 75 FD