IMPORTANT NOTICE: Robert Bosch LLC and the manufacturers whose vehicles are accessible using the CDR System urge end users to use the latest production release of the Crash Data Retrieval system software when viewing, printing or exporting any retrieved data from within the CDR program. Using the latest version of the CDR software is the best way to ensure that retrieved data has been translated using the most current information provided by the manufacturers of the vehicles supported by this product.

CDR File Information

User Entered VIN	1FTRW07W61KF49238
User	Inv. Cowan #170
Case Number	15-062138
EDR Data Imaging Date	06/30/2015
Crash Date	06/25/2015
Filename	1FTRW07W61KF49238_ACM 2001 FORD F-150 15-062138.CDRX
Saved on	Tuesday, June 30 2015 at 12:47:34
Collected with CDR version	Crash Data Retrieval Tool 15.0
Reported with CDR version	Crash Data Retrieval Tool 15.0
EDR Device Type	Airbag Control Module
Event(s) recovered	Deployment

Comments

Imaged at CPD Impound Lot. NTSB Agents present for download.

Data Limitations

Important Limitations on Bosch Crash Data Retrieval (CDR) Tool Capabilities.

Disclaimer: This Restraint Control Module (RCM) records longitudinal deceleration data for the purpose of understanding the input data the Restraint Control Module used to determine whether or not to deploy restraint devices. This module does not record vehicle speed, throttle position, brake on-off, and other data, which may be recorded in some 1999 model year and later General Motors modules. The deceleration data recorded by Ford's module during a crash can subsequently be mathematically integrated into a longitudinal Delta-V. Delta-V is the change in velocity during the recording time and is NOT the speed the vehicle was traveling before the accident, and is also not the Barrier Equivalent Velocity. The Bosch CDR Tool will read and interpret both acceleration in G's and Delta-V in mph. RCM's in Ford vehicles that can be read by the Bosch CDR tool are listed in the Bosch Help Files.

Important

If there is any question that the restraint system did not perform as it was designed to perform, please read the system only through the diagnostic link connector. The Bosch CDR kit provides an RCM interface cable to plug directly into the restraint control module. The Bosch CDR RCM Interface Cable connects only power, ground, and memory read pins to the relevant vehicle restraint control module. The other RCM pins normally connect to inputs, such as sensors, and outputs, such as airbags, are not connected when you use the RCM Interface Cable to plug directly into the module. Since the vehicle restraint control module is constantly monitoring airbag system readiness (when powered), it will detect that the sensors and airbags are not connected. The restraint control module may record a new diagnostic trouble code into memory for each device that is not connected. These new diagnostic trouble codes may record over previously written diagnostic trouble codes present prior to the accident and spoil evidence necessary to determine if the restraint system performed in the accident as it was designed to perform. Not only could this prevent Ford from being able to determine if the system performed as it was designed to perform, but, regardless of innocent inadvertence, you could raise issues of evidence spoliation in any litigation that may arise out of the accident. If you cannot read the module via the diagnostic link connector, and if you suspect improper system performance, contact Ford Motor Company and request their assistance to read the module with a proper vehicle simulator attached.

While data stored in RCM's is accurate, accident reconstructionists must be aware of the limitations of the data recorded in Ford's control modules and should compare the recorded data with the physical evidence at the accident scene using professional accident reconstruction techniques (i.e. vehicle crush characteristics, skid marks, etc) before making any assumptions about the import and validity of the data recorded in the module with respect to the crash event being analyzed. The following describes specific limitations that must be considered when analyzing recorded data. Investigators should obtain permission of the vehicle owner or have sufficient legal authority prior to reading any data.

1. There may be no deceleration data recorded in the module.
Loss of power (cut wires, damaged battery, crushed fuse box) to the module during or immediately after the crash may prevent the crash data from being recorded. A backup power supply within the module has sufficient power to continue to

analyze the deceleration data and deploy restraint devices if needed, but there is no backup power for recording.

If the deceleration input does not create a vehicle longitudinal Delta-V above 4 mph within 100 milliseconds, there may not be any data recorded.

2. In unusual circumstances, deceleration data stored in the module may be from a crash other than the one you are currently analyzing.
The module will record data from some non-deploy events. If, after the module has recorded data from a non-deploy event, and there is a subsequent event in which there is a loss of power and no new recording is made for that subsequent event, the deceleration data in the module's memory may be from the prior event. If the new, subsequent event is a deploy event and recording has occurred, the deployment times should be recorded. If there are no deployment times recorded, but airbags or other restraint devices are observed to have deployed, the recorded data that you read are most likely from a prior event.

Once an airbag or other restraint device has been commanded to deploy, the data recorded in connection with that deployment are "locked", and subsequent crashes cannot be recorded.

If a vehicle is being repaired, the RCM should be replaced after any crash in which restraint devices deploy. Early printed shop manuals refer to re-using modules by clearing the "crash data memory full" code, but this is no longer true and the latest on-line electronic shop manual directs that modules be replaced.

Crashes that involve multiple impacts will record only one of the impacts. If there is a deployment, the deployment event will be recorded and locked. If no restraint device is commanded to deploy, the recorded data are not "locked", and subsequent impacts may record over any previous recorded data. Further analysis will be required to determine which of the events was actually recorded.

3. The computed longitudinal Delta-V may understate the total Delta-V

Many real-world crashes can last longer than the memory has the capacity to record. Therefore, the actual Delta-V of the event may be higher than the Delta-V calculated and displayed by the Bosch CDR System output. Review the end of the longitudinal acceleration/deceleration pulse - if it has not settled to zero G's by the end of the recording, the vehicle longitudinal Delta-V is most likely understated. If there is a clear decaying trend line you may choose, at your own risk, to estimate the total Delta-V by extrapolating the decay trend to zero and to calculate the additional Delta-V not captured.

Under some circumstances where power is interrupted, during the recording of data, or the module re-sets during the recording of data, a partial recording may occur. This will be shown as "no data" in the data table and will not be plotted on the graph of acceleration. When some portion of the acceleration data is not recorded, the Delta-V during that time cannot be calculated. A Delta-V will be calculated for the points that are valid, but the user must be aware that the partial Delta-V calculated will further underestimate the actual event total Delta-V.

4. This module records only longitudinal acceleration/deceleration of the vehicle. You must compute lateral or resultant total acceleration based on your estimated Principal Direction of Force (PDOF).

5. Vertical acceleration/decelerations are not recorded. Vehicle spin about a point not centered on the Restraints Control Module sensor may add or subtract from bulk vehicle motion.

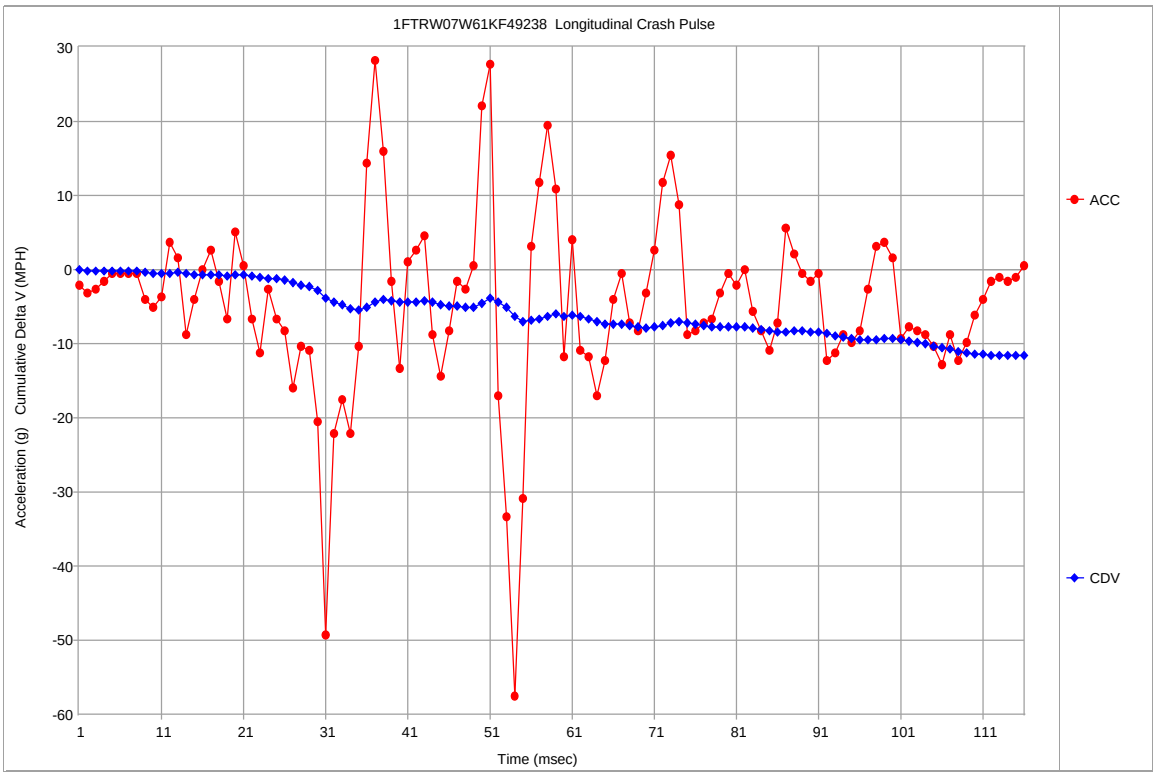
6. This module is not intended to record acceleration/deceleration in a side-impact event. If the side impact generates a longitudinal deceleration component sufficient to wake up the frontal deployment algorithm, there may be a recording of longitudinal deceleration in a side impact event.

Any Longitudinal Delta-V determined by using data read from the air bag module should be verified with physical evidence from the crash (such as vehicle crush, skid marks) and assumed accident sequence. Multiple impacts, angular collisions, side impacts, vehicle spin, etc should be considered in addition to the data read from the air bag module.

02001_RCM-1_r002

System Status At Deployment

Diagnostic codes active when event occurred	0
Passenger Airbag Switch Position During Event	Activated
Time From Side Safing Decision to Left (Driver) Side Bag Deployment (msec)	Not Deployed
Frontal and Pretensioner Fire time (ms)	29.75


1FTRW07W61KF49238 Longitudinal Crash Pulse
Acceleration (g) Cumulative Delta V (MPH)
30
20
10
0
-10
-20
-30
-40
-50
-60
1
11
21
31
41
51
61
71
81
91
101
111
Time (msec)
ACC
CDV

Crash Pulse Data

Milliseconds	Long. Acceleration (Gs)	Long. Cumulative Delta V (MPH)
1	-2.06	-0.05
2	-3.08	-0.11
3	-2.57	-0.17
4	-1.54	-0.20
5	-0.51	-0.21
6	-0.51	-0.23
7	-0.51	-0.24
8	-0.51	-0.25
9	-4.11	-0.34
10	-5.14	-0.45
11	-3.60	-0.53
12	3.60	-0.45
13	1.54	-0.42
14	-8.74	-0.61
15	-4.11	-0.70
16	0.00	-0.70
17	2.57	-0.64
18	-1.54	-0.68
19	-6.68	-0.82
20	5.14	-0.71
21	0.51	-0.70
22	-6.68	-0.85
23	-11.31	-1.09
24	-2.57	-1.15
25	-6.68	-1.30
26	-8.22	-1.48
27	-15.93	-1.83
28	-10.28	-2.05
29	-10.79	-2.29
30	-20.56	-2.74
31	-49.34	-3.83
32	-22.10	-4.31
33	-17.48	-4.69
34	-22.10	-5.18
35	-10.28	-5.41
36	14.39	-5.09
37	28.27	-4.47
38	15.93	-4.12
39	-1.54	-4.15
40	-13.36	-4.45
41	1.03	-4.42
42	2.57	-4.37
43	4.63	-4.27
44	-8.74	-4.46
45	-14.39	-4.77
46	-8.22	-4.95
47	-1.54	-4.99
48	-2.57	-5.04
49	0.51	-5.03
50	22.10	-4.55

Milliseconds	Long. Acceleration (Gs)	Long. Cumulative Delta V (MPH)
51	27.76	-3.94
52	-16.96	-4.31
53	-33.41	-5.04
54	-57.57	-6.31
55	-30.84	-6.99
56	3.08	-6.92
57	11.82	-6.66
58	19.53	-6.23
59	10.79	-5.99
60	-11.82	-6.25
61	4.11	-6.16
62	-10.79	-6.40
63	-11.82	-6.66
64	-16.96	-7.03
65	-12.34	-7.30
66	-4.11	-7.39
67	-0.51	-7.40
68	-7.20	-7.56
69	-8.22	-7.74
70	-3.08	-7.81
71	2.57	-7.75
72	11.82	-7.49
73	15.42	-7.15
74	8.74	-6.96
75	-8.74	-7.15
76	-8.22	-7.34
77	-7.20	-7.49
78	-6.68	-7.64
79	-3.08	-7.71
80	-0.51	-7.72
81	-2.06	-7.76
82	0.00	-7.76
83	-5.65	-7.89
84	-8.22	-8.07
85	-10.79	-8.31
86	-7.20	-8.46
87	5.65	-8.34
88	2.06	-8.29
89	-0.51	-8.31
90	-1.54	-8.34
91	-0.51	-8.35
92	-12.34	-8.62
93	-11.31	-8.87
94	-8.74	-9.06
95	-9.77	-9.28
96	-8.22	-9.46
97	-2.57	-9.51
98	3.08	-9.45
99	3.60	-9.37
100	1.54	-9.33
101	-9.25	-9.54
102	-7.71	-9.70
103	-8.22	-9.89

Milliseconds	Long. Acceleration (Gs)	Long. Cumulative Delta V (MPH)
104	-8.74	-10.08
105	-10.28	-10.30
106	-12.85	-10.59
107	-8.74	-10.78
108	-12.34	-11.05
109	-9.77	-11.26
110	-6.17	-11.40
111	-4.11	-11.49
112	-1.54	-11.52
113	-1.03	-11.54
114	-1.54	-11.58
115	-1.03	-11.60
116	0.51	-11.59

Hexadecimal Data

Data that the vehicle manufacturer has specified for data retrieval is shown in the hexadecimal data section of the CDR report. The hexadecimal data section of the CDR report may contain data that is not translated by the CDR program. The control module contains additional data that is not retrievable by the CDR system.

```
0800:  AA 42 40 5F 14 A2 58 2D 0D 23 0F 2D 38 57 C8 FF
0810:  10 FF F5 13 3C 78 F1 9E 08 A2 F9 EF 19 99 52 49
0820:  2D 03 B3 43 1E 0A F5 0A A1 5E 03 0E 1D 1E 00 25
0830:  3C 3C 80 28 05 28 CB 0A 04 16 14 1E 03 84 B7 03
0840:  03 02 03 02 D5 5C 5A 01 F4 00 55 00 C0 12 5C 01
0850:  40 01 5E 02 6C 00 A5 00 A5 04 1F 00 2E 00 BD 07
0860:  08 13 88 03 E8 00 02 00 64 00 14 00 00 04 7E 7D
0870:  00 00 10 00 C8 01 F4 10 68 02 58 00 B4 04 28 01
0880:  DC 00 02 00 66 00 FA 01 00 17 1D 08 41 11 E6 02
0890:  14 78 31 84 00 C8 0D 14 34 77 02 18 41 01 FF 7D
08A0:  14 FF 50 41 67 CD 43 FF FF FF FF FF FF FF FF 13
08B0:  FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 FF
08C0:  04 FF FF FF FF FF 72 04 64 31 4C 33 41 02 02 13
08D0:  02 FE 80 09 FE 80 0A FE 80 22 FE 80 23 FE 80 FF
08E0:  06 FF 7F FF FF 00 FF FF 00 FF FF 00 FF FF 00 FF
08F0:  44 06 00 00 0C 00 00 FF FF FF FF FF FF FF 00 00
0900:  02 FF 81 34 01 4A 01 FF FF FF FF FF 23 01 E8 7F
0910:  FF 11 01 E8 81 44 01 E8 81 17 50 32 45 63 FF FE
0920:  99 97 98 9A 9C 9C 9C 9C 95 93 96 A4 A0 8C 95 9D
0930:  A2 9A 90 A7 9E 90 87 98 90 8D 7E 89 88 75 3D 72
0940:  7B 72 89 B9 D4 BC 9A 83 9F A2 A6 8C 81 8D 9A 98
0950:  9E C8 D3 7C 5C 2D 61 A3 B4 C3 B2 86 A5 88 86 7C
0960:  85 95 9C 8F 8D 97 A2 B4 BB AE 8C 8D 8F 90 97 9C
0970:  99 9D 92 8D 88 8F A8 A1 9C 9A 9C 85 87 8C 8A 8D
0980:  98 A3 A4 A0 8B 8E 8D 8C 89 84 8C 85 8A 91 95 9A
0990:  9B 9A 9B 9E 9D 00 00 00 D4 8F 00 6D 00 00 00 00
09A0:  00 ED 00 00 00 7C 00 4A 00 77 00 88 00 00 00 01
09B0:  00 00 01 13 00 77 00 0E 02 59 00 00 00 00 00 00
09C0:  00 00 77 FF 00 FF FF 07 BF 00 FF FF FF FF FF FF
09D0:  FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
09E0:  FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
09F0:  FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
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Disclaimer of Liability

The users of the CDR product and reviewers of the CDR reports and exported data shall ensure that data and information supplied is applicable to the vehicle, vehicle's system(s) and the vehicle ECU. Robert Bosch LLC and all its directors, officers, employees and members shall not be liable for damages arising out of or related to incorrect, incomplete or misinterpreted software and/or data. Robert Bosch LLC expressly excludes all liability for incidental, consequential, special or punitive damages arising from or related to the CDR data, CDR software or use thereof.

IMPORTANT NOTICE: Robert Bosch LLC and the manufacturers whose vehicles are accessible using the CDR System urge end users to use the latest production release of the Crash Data Retrieval system software when viewing, printing or exporting any retrieved data from within the CDR program. Using the latest version of the CDR software is the best way to ensure that retrieved data has been translated using the most current information provided by the manufacturers of the vehicles supported by this product.

CDR File Information

User Entered VIN	1G6AU5S88E0183232
User	Inv. Cowan #170
Case Number	15-062138
EDR Data Imaging Date	06/30/2015
Crash Date	06/25/2015
Filename	1G6AU5S88E0183232_ACM 2014 CADILLAC CTS 15-062138.CDRX
Saved on	Tuesday, June 30 2015 at 13:43:02
Collected with CDR version	Crash Data Retrieval Tool 15.0
Reported with CDR version	Crash Data Retrieval Tool 15.0
EDR Device Type	Airbag Control Module
Event(s) recovered	Non-Deployment, Deployment

Comments

Imaged at Chattanooga Police Service Center, ACM removed, benchtop download. NTSB Agent Jane Foster present.

Data Limitations

Recorded Crash Events:

There are two types of recorded crash events for Front, Side, and Rear (FSR) Events. The first is the Non-Deployment Event. A Non-Deployment Event records data but does not deploy the air bag(s). The minimum SDM Recorded Vehicle Velocity Change, that is needed to record a Non-Deployment Event, is five MPH [8 km/h]. A Non-Deployment Event contains Pre-Crash and Crash data. The oldest Non-Deployment event can be overwritten by a Deployment Event, if all three records are full and the Non-Deployment Event is not locked. Non-Deployment Events can be overwritten after approximately 250 ignition cycles. Also, a Non-Deployment event can be recorded if one of the following occurs without the Deployment of any of the frontal air bags, side air bags, or roll bars:

-Pretensioner(s) only Deployment
-Head Rest Deployment
-Battery Cut-Off Deployment

The second type of SDM recorded crash event for FSR Events is the Deployment Event. It also contains Pre-Crash and Crash data. Deployment Events cannot be overwritten or cleared by the SDM.

There are also two types of recorded crash events for Rollover Events. The first is the Non-Deployment (Non-rollover) Event. A Non-Deployment Event records data but does not deploy the air bag(s). A Non-Deployment Event contains Pre-Crash and Crash data. Non-Deployment Rollover event follow the same rules as FSR Non-Deployment events.

The SDM can store up to three Events.

Data:

For FSR Events, SDM Recorded Vehicle Velocity Change reflects the change in velocity that the sensing system experienced during the recorded portion of the event. SDM Recorded Vehicle 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. For Deployment and Non-Deployment Events, the SDM will record 300 milliseconds of data after time zero. The SDM will also record 300 milliseconds of Vehicle Acceleration data after time zero.

For Rollover Events, the SDM may record Lateral Acceleration, Vertical Acceleration, and Roll Rate data, if the SDM is rollover capable. This data reflects what the sensing system experienced during the recorded portion of the event. For Non-Deployment (Non-rollover) Events, the SDM will record 1 second of data before a calibrated angle threshold is reached. For Rollover Deployment Events, the SDM will record up to 700 milliseconds of data before the Deployment criteria is met and 290 milliseconds after the Deployment criteria is met.

-Deployment loops may be displayed as being deployed in a Non-Deployment event record, if a Deployment event is qualified during the Non-Deployment event. That is, if two or more events are occurring at the same time and one is a Non-Deployment event and one of the others is a Deployment event, and the Deployment event is qualified while the Non-Deployment is still active, the deployed loops may be recorded in the Non-Deployment event record.

-Deployment loops can only be deployed once per module power cycle.

-Time between events is recorded in 10 msec intervals and is displayed in seconds for a maximum time of 655.33 seconds. The counter measures the time from the start of one event to the start of the next event if both events occur within the same ignition cycle.

-The Maximum SDM Recorded Vehicle Velocity Change may occur between the recorded 10 millisecond sample points of the SDM Recorded Vehicle Velocity Change.

-Event Recording Complete will indicate if data from the recorded event has been fully written to the SDM memory or if it has been interrupted and not fully written.

-SDM Recorded Vehicle Speed accuracy can be affected by various factors, including but not limited to the following:

-Significant changes in the tire's rolling radius
-Final drive axle ratio changes
-Wheel lockup and wheel slip

-Brake Switch Circuit Status indicates the open/closed state of the brake switch circuit.
-Pre-Crash data is recorded asynchronously. The 0.5 second Pre-crash data value (most recent recorded data point) is the data point last sampled before Time Zero. That is to say, the last data point may have been captured just before Time Zero but no more than 0.5 second before Time Zero. All subsequent Pre-crash data values are referenced from this data point.
-Pre-Crash Electronic Data Validity Check Status indicates "Data Invalid" if:
-The SDM receives a message with an "invalid" flag from the module sending the pre-crash data
-Pre-Crash Electronic Data Validity Check Status indicates "Data Not Available" if:
-No data is received from the module sending the pre-crash data
-Belt Switch Circuit Status indicates the status of the seat belt switch circuit.
-The ignition cycle counter will increment when the power mode cycles from OFF/Accessory to RUN. Applying and removing of battery power to the module will not increment the ignition cycle counter.
-Ignition Cycles Since DTCs Were Last Cleared can record a maximum value of 253 cycles and can only be reset by a scan tool.
-Deployment Event Counter tracks the number of Deployment events that have occurred during the SDM's lifetime.
-Event Counter tracks the number of qualified events (either Deployments, Non-deploy, or Rollover events) that have occurred during the SDM's lifetime.
-The Time Zero to Deployment Command Criteria Met times for the following will be indicated for whichever occurs first:
-Driver Thorax or Driver Curtain
-Passenger Thorax or Passenger Curtain
-Driver Pretensioner Loop #1 or Driver Pretensioner Loop #2
-Passenger Pretensioner Loop #1 or Passenger Pretensioner Loop #2
-For Deployment Events, DTC B0052 (Deployment commanded) shall be recorded with the remainder of the data for this event even though it occurred after Event Enable.
-Once a firing loop has been commanded to be deployed, it will not be commanded to be deployed again during the same ignition cycle. Firing loop times for subsequent deployment type events, during the same ignition cycle, will record the deployment times as N/A.
-The GM parameter name is displayed in parentheses after the NHTSA Part 563 parameter name.
-The reported range of the longitudinal and lateral acceleration values is approximately ± 50 g.
-All data should be examined in conjunction with other available physical evidence from the vehicle and scene.

Data Source:
All SDM recorded data is measured, calculated, and stored internally, except for the following:
-Vehicle Status Data (Pre-Crash) is transmitted by the Body Control Module, via the vehicle's communication network.
-The Belt Switch Circuit is wired directly to the SDM.

Data Element Sign Convention:
The following table provides an explanation of the sign notation for data elements that may be included in this CDR report. Directional references to sign notation are all from the perspective of the driver when seated in the vehicle facing the direction of forward vehicle travel.

Data Element	Positive Sign Notation
Longitudinal Acceleration	Forward
Longitudinal Velocity Change	Forward
Lateral Acceleration	Left to Right
Lateral Velocity Change	Left to Right
Vertical Acceleration	Downward
Roll Rate	Clockwise Rotation

Hexadecimal Data:
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01049_SDM30-autoliv_r006

System Status at Time of Retrieval

Dynamic Deployment Event Counter	1
Multi-Event, Number of Events (Dynamic Event Counter)	2
Dynamic OnStar Notification Event Counter	2
Vehicle Identification Number (VIN)	1G6AU5S88E0183232
Ignition Cycle, Download (Ignition Cycles at Investigation)	1464
End Model Part Number	00CF5CBC
System Type	N/A
Software Module Identifier 1	00CF5CBD
Software Module Identifier 2	0161940B
Software Module Identifier 3	015E77B0
Manufacturing Traceability Data, Component Identifier	11
Manufacturing Traceability Data, Part Number/Broadcast Code	1410
Manufacturing Traceability Data, Supplier Code	0
Manufacturing Traceability Data, Traceability Number	050655563
ESS # 1 Traceability Data, Component Identifier	00
ESS # 1 Traceability Data, Part Number/Broadcast Code	0000
ESS # 1 Traceability Data, Supplier Code	0
ESS # 1 Traceability Data, Traceability Number	000000000
ESS # 2 Traceability Data, Component Identifier	00
ESS # 2 Traceability Data, Part Number/Broadcast Code	0000
ESS # 2 Traceability Data, Supplier Code	0
ESS # 2 Traceability Data, Traceability Number	000000000
ESS # 3 Traceability Data, Component Identifier	00
ESS # 3 Traceability Data, Part Number/Broadcast Code	0000
ESS # 3 Traceability Data, Supplier Code	0
ESS # 3 Traceability Data, Traceability Number	000000000
ESS # 4 Traceability Data, Component Identifier	00
ESS # 4 Traceability Data, Part Number/Broadcast Code	0000
ESS # 4 Traceability Data, Supplier Code	0
ESS # 4 Traceability Data, Traceability Number	000000000
ESS # 5 Traceability Data, Component Identifier	00
ESS # 5 Traceability Data, Part Number/Broadcast Code	0000
ESS # 5 Traceability Data, Supplier Code	0
ESS # 5 Traceability Data, Traceability Number	000000000
ESS # 6 Traceability Data, Component Identifier	00
ESS # 6 Traceability Data, Part Number/Broadcast Code	0000
ESS # 6 Traceability Data, Supplier Code	0
ESS # 6 Traceability Data, Traceability Number	000000000
ESS # 7 Traceability Data, Component Identifier	00
ESS # 7 Traceability Data, Part Number/Broadcast Code	0000
ESS # 7 Traceability Data, Supplier Code	0
ESS # 7 Traceability Data, Traceability Number	000000000
ESS # 8 Traceability Data, Component Identifier	00
ESS # 8 Traceability Data, Part Number/Broadcast Code	0000
ESS # 8 Traceability Data, Supplier Code	0
ESS # 8 Traceability Data, Traceability Number	000000000

System Status at Event (Event Record 1)

Event Record Type	Non-Deployment
OnStar Deployment Status Data Sent	Yes
Complete file recorded (Event Recording Complete)	Yes
Crash Record Locked	Yes
OnStar SDM Recorded Vehicle Velocity Change Data Sent	Yes
Deployment Event Counter	0
Multi-Event, Number of Events (Event Counter)	1
OnStar Notification Event Counter	1
Time From Event 1 to 2 (Time Between Events) (seconds)	Data Not Available
Ignition Cycle, Crash (Ignition Cycles at Event)	1464
Algorithm Active: Frontal	No
Algorithm Active: Side	Yes
Algorithm Active: Rollover	Yes
Algorithm Active: Rear	Yes
Concurrent Event Flag Set	No
Event Severity Status: Frontal Pretensioner	No
Event Severity Status: Frontal Stage 1	No
Event Severity Status: Frontal Stage 2	No
Event Severity Status: Left Side	No
Event Severity Status: Right Side	No
Event Severity Status: Rear	Yes
Event Severity Status: Rollover	No
Safety Belt Status, Driver (Driver Belt Switch Circuit Status)	Buckled
Safety Belt Status, Right Front Passenger (Passenger Belt Switch Circuit Status)	Not Buckled
Center Front Row Belt Switch Circuit Status (If Equipped)	Data Not Available
Left Row 3 Belt Switch Circuit Status (If Equipped)	Data Not Available
Center Row 3 Belt Switch Circuit Status (If Equipped)	Data Not Available
Right Row 3 Belt Switch Circuit Status (If Equipped)	Data Not Available
Seat Track Position Switch, Foremost, Status, Right Front Passenger (Passenger Seat Position Status)	No (Rearward)
Passenger Seat Occupancy Status	Empty
Passenger Classification Status	Not Applicable
Passenger Air Bag ON Indicator Status	Off
Passenger Air Bag OFF Indicator Status	On
Low Tire Pressure Warning Lamp Status 0.5 Seconds Prior to Time Zero	Off
Frontal Air Bag Warning Lamp (SIR Warning Lamp Status 0.5 Seconds Prior to Time Zero)	Off
SIR Warning Lamp ON/OFF Time Continuously (seconds)	655330
Number of Ignition Cycles SIR Warning Lamp was ON/OFF Continuously	1450
Ignition Cycles Since DTCs Were Last Cleared 0.5 Seconds Prior to Time Zero	253
Maximum Delta-V, Longitudinal (Maximum Longitudinal SDM Recorded Vehicle Velocity Change for FSR Event) MPH [km/h]	38 [61]
Time, Maximum Delta-V (Time From FSR Time Zero to Maximum Longitudinal SDM Recorded Vehicle Velocity Change)(msec)	298
Maximum Delta-V, Lateral (Maximum Lateral SDM Recorded Vehicle Velocity Change for FSR Event) MPH [km/h]	4 [6]
Time Maximum Delta-V, Lateral (Time From FSR Time Zero to Maximum Lateral SDM Recorded Vehicle Velocity Change)(msec)	278
High Voltage Disable Notification Sent	Yes
Deployment Commanded in Energy Reserve Mode	No

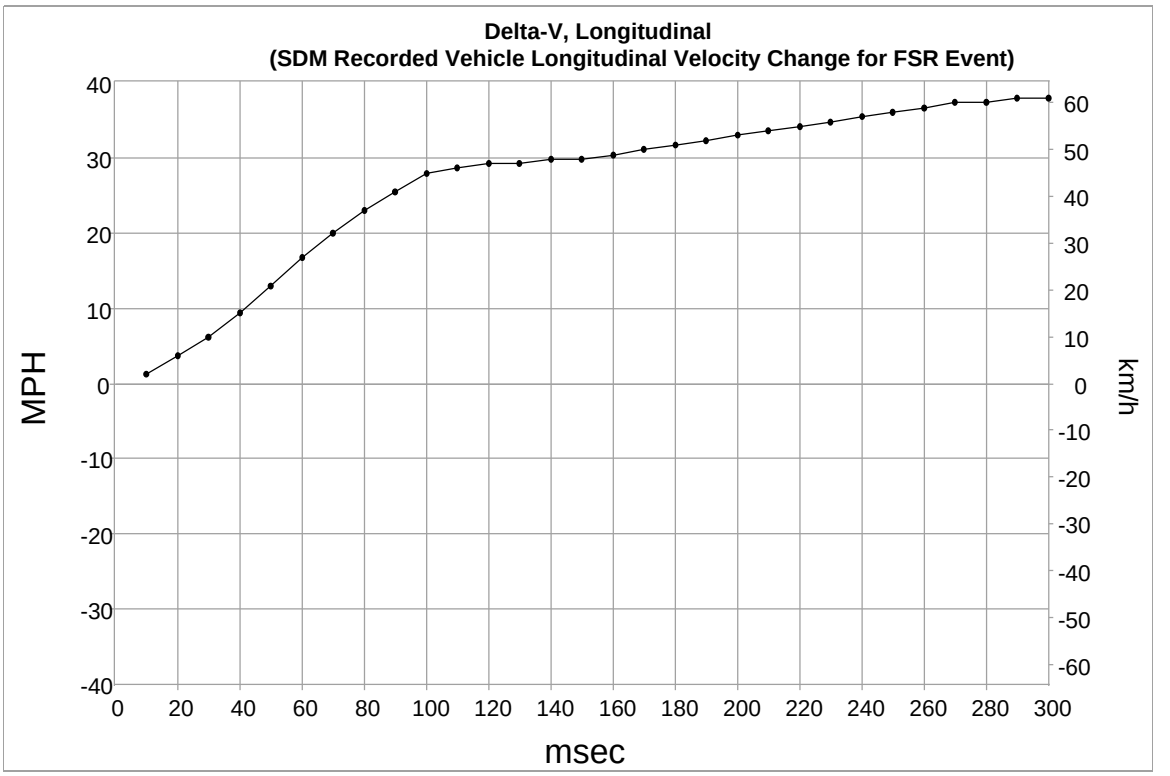
DTCs Present at Time of Event (Event Record 1)

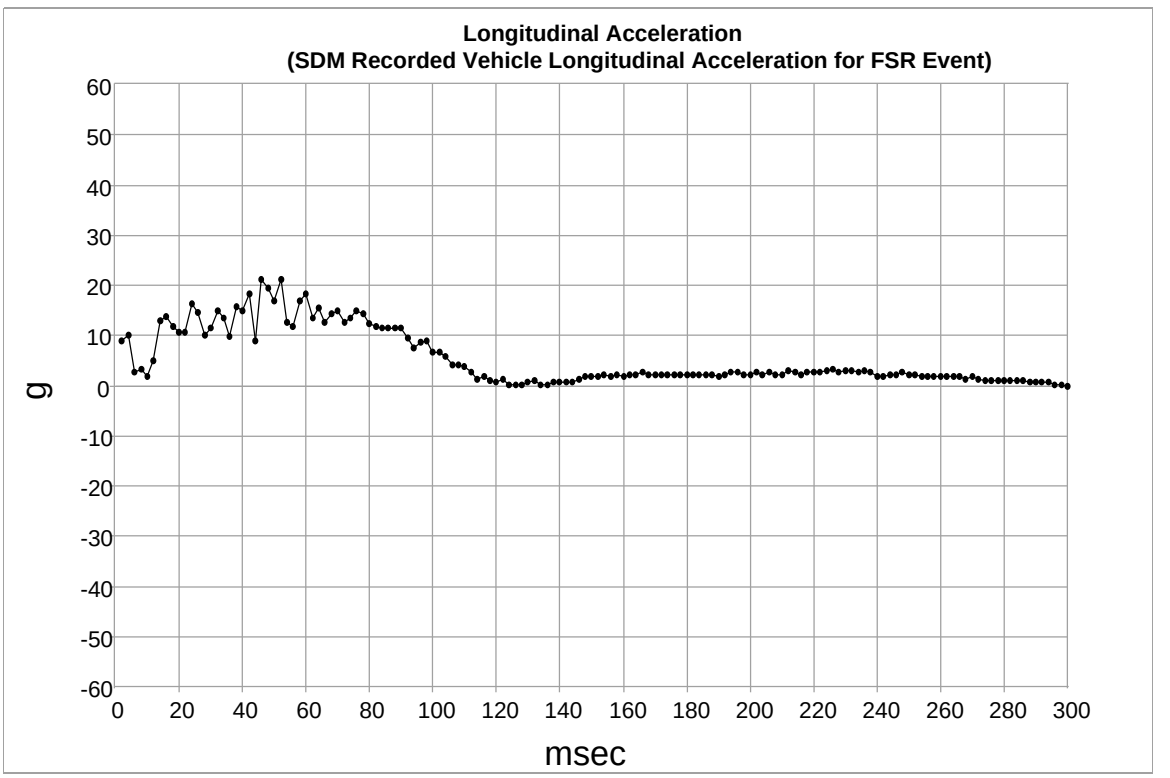
B0052-00

Event Data (Event Record 1)

Driver 1st Stage Deployment Loop Commanded	No
Passenger 1st Stage Deployment Loop Commanded	No
Driver 2nd Stage Deployment Loop Commanded	No
Passenger 2nd Stage Deployment Loop Commanded	No
Driver Pretensioner Deployment Loop #1 Commanded	Yes
Passenger Pretensioner Deployment Loop #1 Commanded	Yes
Driver Pretensioner Deployment Loop #2 Commanded	Yes
Passenger Pretensioner Deployment Loop #2 Commanded	Yes
Driver Thorax Loop Commanded	No
Passenger Thorax Loop Commanded	No
Left Row 2 Thorax Loop Commanded	No
Right Row 2 Thorax Loop Commanded	No
Left Row 1 Roof Rail/Head Curtain Loop Commanded	No
Right Row 1 Roof Rail/Head Curtain Loop Commanded	No
Driver Knee Deployment Loop Commanded	No
Passenger Knee Deployment Loop Commanded	No
Frontal Air Bag Deployment, Time to 1st Stage Deployment, Driver (Driver 1st Stage Time From Time Zero to Deployment Command Criteria Met) (msec)	Data Not Available
Frontal Air Bag Deployment, Time to 2nd Stage, Driver (Driver 2nd Stage Time From Time Zero to Deployment Command Criteria Met) (msec)	Data Not Available
Frontal Air Bag Deployment, Time to 1st Stage Deployment, Right Front Passenger (Passenger 1st Stage Time From Time Zero to Deployment Command Criteria Met) (msec)	Data Not Available
Frontal Air Bag Deployment, Time to 2nd Stage, Right Front Passenger (Passenger 2nd Stage Time From Time Zero to Deployment Command Criteria Met) (msec)	Data Not Available
Side air bag deployment, time to deploy, driver (Driver Thorax/Curtain Time From Time Zero to Deployment Command Criteria Met) (msec)	Data Not Available
Side air bag deployment, time to deploy, right front passenger (Passenger Thorax/Curtain Time From Time Zero to Deployment Command Criteria Met) (msec)	Data Not Available
Pretensioner Deployment, Time to Fire, Driver (Driver Pretensioner Time From Time Zero to Deployment Loop #1 or Loop #2 Command Criteria Met) (msec)	40
Pretensioner Deployment, Time to Fire, Right Front Passenger (Passenger Pretensioner Time From Time Zero to Deployment Loop #1 or Loop #2 Command Criteria Met) (msec)	40

Longitudinal Crash Pulse (Event Record 1)





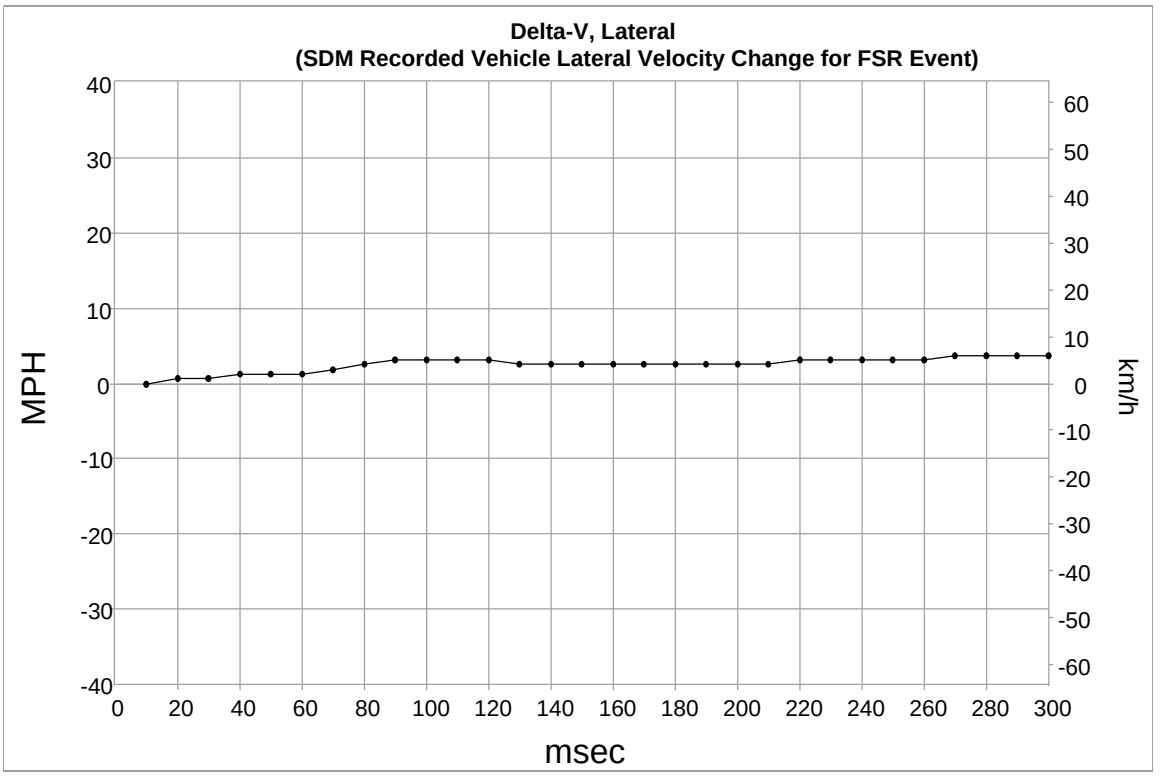
Longitudinal Crash Pulse (Event Record 1)

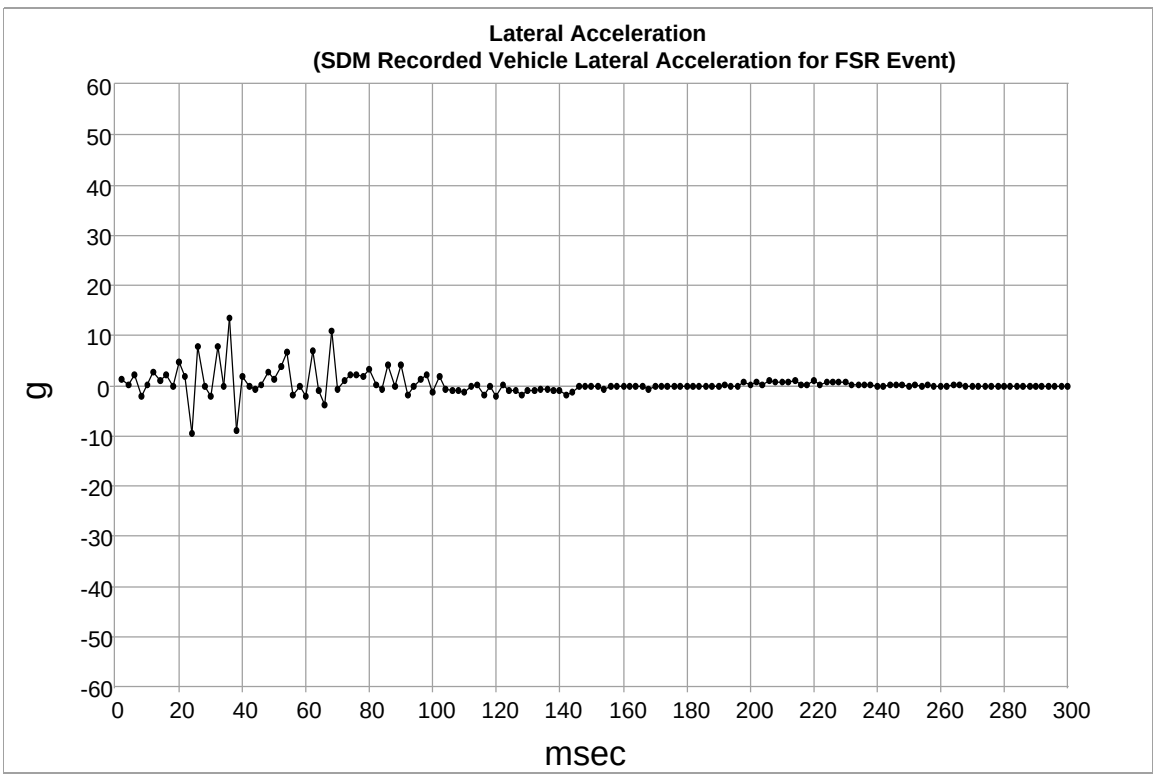
Time (msec)	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (MPH)	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (km/h)
10	1.2	2.0
20	3.7	6.0
30	6.2	10.0
40	9.3	15.0
50	13.0	21.0
60	16.8	27.0
70	19.9	32.0
80	23.0	37.0
90	25.5	41.0
100	28.0	45.0
110	28.6	46.0
120	29.2	47.0
130	29.2	47.0
140	29.8	48.0
150	29.8	48.0
160	30.4	49.0
170	31.1	50.0
180	31.7	51.0
190	32.3	52.0
200	32.9	53.0
210	33.6	54.0
220	34.2	55.0
230	34.8	56.0
240	35.4	57.0
250	36.0	58.0
260	36.7	59.0
270	37.3	60.0
280	37.3	60.0
290	37.9	61.0
300	37.9	61.0

Longitudinal Crash Pulse (Event Record 1)

Time (msec)	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (g)	Time (msec)	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (g)	Time (msec)	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (g)
2	9.0	102	6.6	202	2.6
4	10.2	104	5.8	204	2.2
6	2.6	106	4.2	206	2.6
8	3.4	108	4.2	208	2.2
10	1.8	110	3.8	210	2.2
12	5.0	112	2.6	212	3.0
14	13.0	114	1.4	214	2.6
16	13.8	116	1.8	216	2.2
18	11.8	118	1.0	218	2.6
20	10.6	120	0.6	220	2.6
22	10.6	122	1.4	222	2.6
24	16.2	124	0.2	224	3.0
26	14.6	126	0.2	226	3.4
28	10.2	128	0.2	228	2.6
30	11.4	130	0.6	230	3.0
32	15.0	132	1.0	232	3.0
34	13.4	134	0.2	234	2.6
36	9.8	136	0.2	236	3.0
38	15.8	138	0.6	238	2.6
40	15.0	140	0.6	240	1.8
42	18.2	142	0.6	242	1.8
44	9.0	144	0.6	244	2.2
46	21.0	146	1.4	246	2.2
48	19.4	148	1.8	248	2.6
50	17.0	150	1.8	250	2.2
52	21.0	152	1.8	252	2.2
54	12.6	154	2.2	254	1.8
56	11.8	156	1.8	256	1.8
58	17.0	158	2.2	258	1.8
60	18.2	160	1.8	260	1.8
62	13.4	162	2.2	262	1.8
64	15.4	164	2.2	264	1.8
66	12.6	166	2.6	266	1.8
68	14.2	168	2.2	268	1.4
70	15.0	170	2.2	270	1.8
72	12.6	172	2.2	272	1.4
74	13.4	174	2.2	274	1.0
76	15.0	176	2.2	276	1.0
78	14.2	178	2.2	278	1.0
80	12.2	180	2.2	280	1.0
82	11.8	182	2.2	282	1.0
84	11.4	184	2.2	284	1.0
86	11.4	186	2.2	286	1.0
88	11.4	188	2.2	288	0.6
90	11.4	190	1.8	290	0.6
92	9.4	192	2.2	292	0.6
94	7.4	194	2.6	294	0.6
96	8.6	196	2.6	296	0.2
98	9.0	198	2.2	298	0.2
100	6.6	200	2.2	300	-0.2

Lateral Crash Pulse (Event Record 1)





Lateral Crash Pulse (Event Record 1)

Time (msec)	Delta-V, Lateral (SDM Recorded Vehicle Lateral Velocity Change for FSR Event) (MPH)	Delta-V, Lateral (SDM Recorded Vehicle Lateral Velocity Change for FSR Event) (km/h)
10	0.0	0.0
20	0.6	1.0
30	0.6	1.0
40	1.2	2.0
50	1.2	2.0
60	1.2	2.0
70	1.9	3.0
80	2.5	4.0
90	3.1	5.0
100	3.1	5.0
110	3.1	5.0
120	3.1	5.0
130	2.5	4.0
140	2.5	4.0
150	2.5	4.0
160	2.5	4.0
170	2.5	4.0
180	2.5	4.0
190	2.5	4.0
200	2.5	4.0
210	2.5	4.0
220	3.1	5.0
230	3.1	5.0
240	3.1	5.0
250	3.1	5.0
260	3.1	5.0
270	3.7	6.0
280	3.7	6.0
290	3.7	6.0
300	3.7	6.0

Lateral Crash Pulse (Event Record 1)

Time (msec)	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (g)	Time (msec)	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (g)	Time (msec)	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (g)
2	1.4	102	1.8	202	0.6
4	0.2	104	-0.6	204	0.2
6	2.2	106	-1.0	206	1.0
8	-2.2	108	-1.0	208	0.6
10	0.2	110	-1.4	210	0.6
12	2.6	112	-0.2	212	0.6
14	1.0	114	0.2	214	1.0
16	2.2	116	-1.8	216	0.2
18	-0.2	118	-0.2	218	0.2
20	4.6	120	-2.2	220	1.0
22	1.8	122	0.2	222	0.2
24	-9.4	124	-1.0	224	0.6
26	7.8	126	-1.0	226	0.6
28	-0.2	128	-1.8	228	0.6
30	-2.2	130	-1.0	230	0.6
32	7.8	132	-1.0	232	0.2
34	-0.2	134	-0.6	234	0.2
36	13.4	136	-0.6	236	0.2
38	-9.0	138	-1.0	238	0.2
40	1.8	140	-1.0	240	-0.2
42	-0.2	142	-1.8	242	-0.2
44	-0.6	144	-1.4	244	0.2
46	0.2	146	-0.2	246	0.2
48	2.6	148	-0.2	248	0.2
50	1.4	150	-0.2	250	-0.2
52	3.8	152	-0.2	252	0.2
54	6.6	154	-0.6	254	-0.2
56	-1.8	156	-0.2	256	0.2
58	-0.2	158	-0.2	258	-0.2
60	-2.2	160	-0.2	260	-0.2
62	7.0	162	-0.2	262	-0.2
64	-1.0	164	-0.2	264	0.2
66	-3.8	166	-0.2	266	0.2
68	11.0	168	-0.6	268	-0.2
70	-0.6	170	-0.2	270	-0.2
72	1.0	172	-0.2	272	-0.2
74	2.2	174	-0.2	274	-0.2
76	2.2	176	-0.2	276	-0.2
78	1.8	178	-0.2	278	-0.2
80	3.4	180	-0.2	280	-0.2
82	0.2	182	-0.2	282	-0.2
84	-0.6	184	-0.2	284	-0.2
86	4.2	186	-0.2	286	-0.2
88	-0.2	188	-0.2	288	-0.2
90	4.2	190	-0.2	290	-0.2
92	-1.8	192	0.2	292	-0.2
94	-0.2	194	-0.2	294	-0.2
96	1.4	196	-0.2	296	-0.2
98	2.2	198	0.6	298	-0.2
100	-1.4	200	0.2	300	-0.2

Rollover Crash Pulse (Event Record 1)
SDM Recorded Vehicle Roll Rate

Contains No Recorded Data

Rollover Crash Pulse (Event Record 1)
Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event)

Contains No Recorded Data

Vertical Crash Pulse (Event Record 1)
Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event)

Contains No Recorded Data

Pre-Crash Data -5.0 to -0.5 sec (Event Record 1)

Times (sec)	Accelerator Pedal, % Full (Accelerator Pedal Position)	Service Brake (Brake Switch Circuit State)	Engine RPM (Engine Speed)	Engine Throttle, % Full (Throttle Position)	Speed, Vehicle Indicated (Vehicle Speed) (MPH [km/h])
-5.0	0	Off	640	11	1 [2]
-4.5	2	Off	704	14	2 [3]
-4.0	3	Off	832	18	2 [4]
-3.5	5	Off	960	22	3 [5]
-3.0	0	Off	960	11	4 [6]
-2.5	0	On	832	12	4 [7]
-2.0	0	On	768	11	4 [7]
-1.5	0	On	768	11	4 [6]
-1.0	0	On	704	11	3 [5]
-0.5	0	Off	704	12	3 [5]

Pre-Crash Data -2.0 to -0.5 sec (Event Record 1)

Times (sec)	Cruise Control Active	Cruise Control Resume Switch Active	Cruise Control Set Switch Active	Engine Torque (lb-ft [N-m])	Reduced Engine Power Mode Indicator
-2.0	No	No	No	-4 [-6]	Off
-1.5	No	No	No	-3 [-4]	Off
-1.0	No	No	No	2 [3]	Off
-0.5	No	No	No	6 [8]	Off

System Status at Event (Event Record 2)

Event Record Type	Deployment
OnStar Deployment Status Data Sent	Yes
Complete file recorded (Event Recording Complete)	Yes
Crash Record Locked	Yes
OnStar SDM Recorded Vehicle Velocity Change Data Sent	Yes
Deployment Event Counter	1
Multi-Event, Number of Events (Event Counter)	2
OnStar Notification Event Counter	2
Time From Event 1 to 2 (Time Between Events) (seconds)	0.23
Ignition Cycle, Crash (Ignition Cycles at Event)	1464
Algorithm Active: Frontal	Yes
Algorithm Active: Side	Yes
Algorithm Active: Rollover	Yes
Algorithm Active: Rear	Yes
Concurrent Event Flag Set	No
Event Severity Status: Frontal Pretensioner	Yes
Event Severity Status: Frontal Stage 1	Yes
Event Severity Status: Frontal Stage 2	Yes
Event Severity Status: Left Side	No
Event Severity Status: Right Side	No
Event Severity Status: Rear	No
Event Severity Status: Rollover	No
Safety Belt Status, Driver (Driver Belt Switch Circuit Status)	Buckled
Safety Belt Status, Right Front Passenger (Passenger Belt Switch Circuit Status)	Not Buckled
Center Front Row Belt Switch Circuit Status (If Equipped)	Data Not Available
Left Row 3 Belt Switch Circuit Status (If Equipped)	Data Not Available
Center Row 3 Belt Switch Circuit Status (If Equipped)	Data Not Available
Right Row 3 Belt Switch Circuit Status (If Equipped)	Data Not Available
Seat Track Position Switch, Foremost, Status, Right Front Passenger (Passenger Seat Position Status)	No (Rearward)
Passenger Seat Occupancy Status	Empty
Passenger Classification Status	Not Applicable
Passenger Air Bag ON Indicator Status	Off
Passenger Air Bag OFF Indicator Status	On
Low Tire Pressure Warning Lamp Status 0.5 Seconds Prior to Time Zero	Off
Frontal Air Bag Warning Lamp (SIR Warning Lamp Status 0.5 Seconds Prior to Time Zero)	On
SIR Warning Lamp ON/OFF Time Continuously (seconds)	0
Number of Ignition Cycles SIR Warning Lamp was ON/OFF Continuously	1
Ignition Cycles Since DTCs Were Last Cleared 0.5 Seconds Prior to Time Zero	253
Maximum Delta-V, Longitudinal (Maximum Longitudinal SDM Recorded Vehicle Velocity Change for FSR Event) MPH [km/h]	-17 [-27]
Time, Maximum Delta-V (Time From FSR Time Zero to Maximum Longitudinal SDM Recorded Vehicle Velocity Change)(msec)	112
Maximum Delta-V, Lateral (Maximum Lateral SDM Recorded Vehicle Velocity Change for FSR Event) MPH [km/h]	-6 [-9]
Time Maximum Delta-V, Lateral (Time From FSR Time Zero to Maximum Lateral SDM Recorded Vehicle Velocity Change)(msec)	118
High Voltage Disable Notification Sent	Yes
Deployment Commanded in Energy Reserve Mode	Yes

DTCs Present at Time of Event (Event Record 2)

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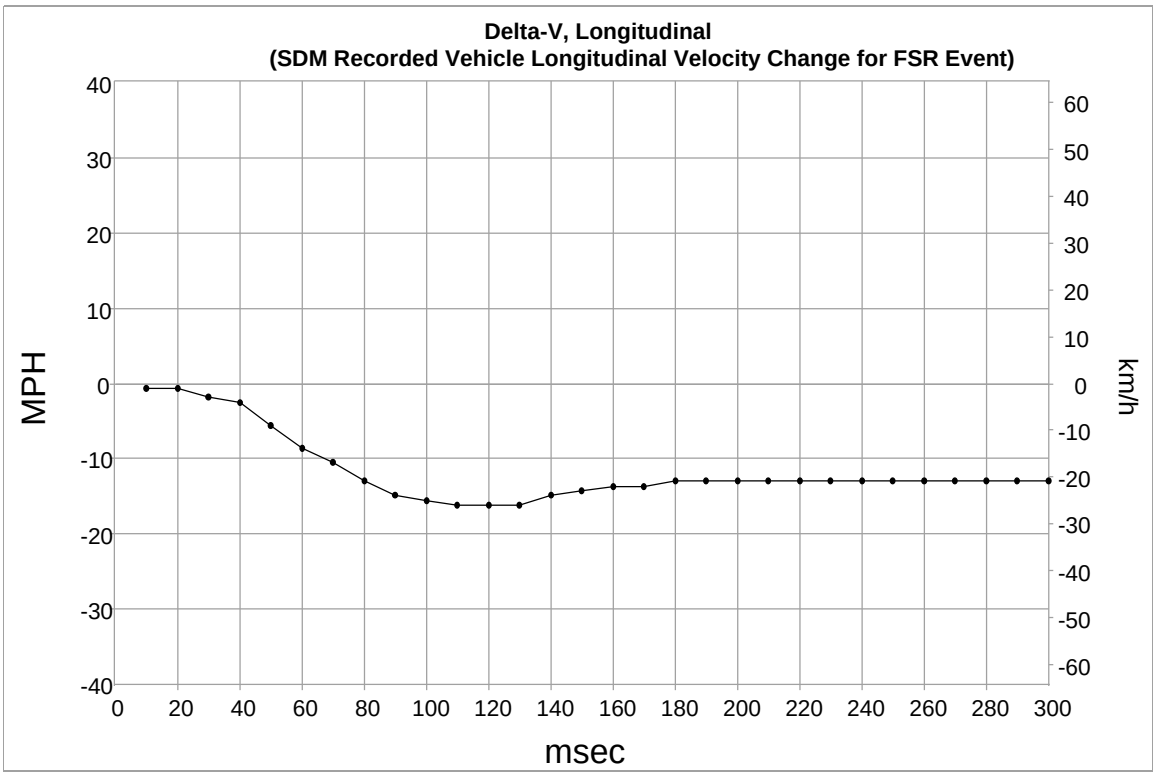
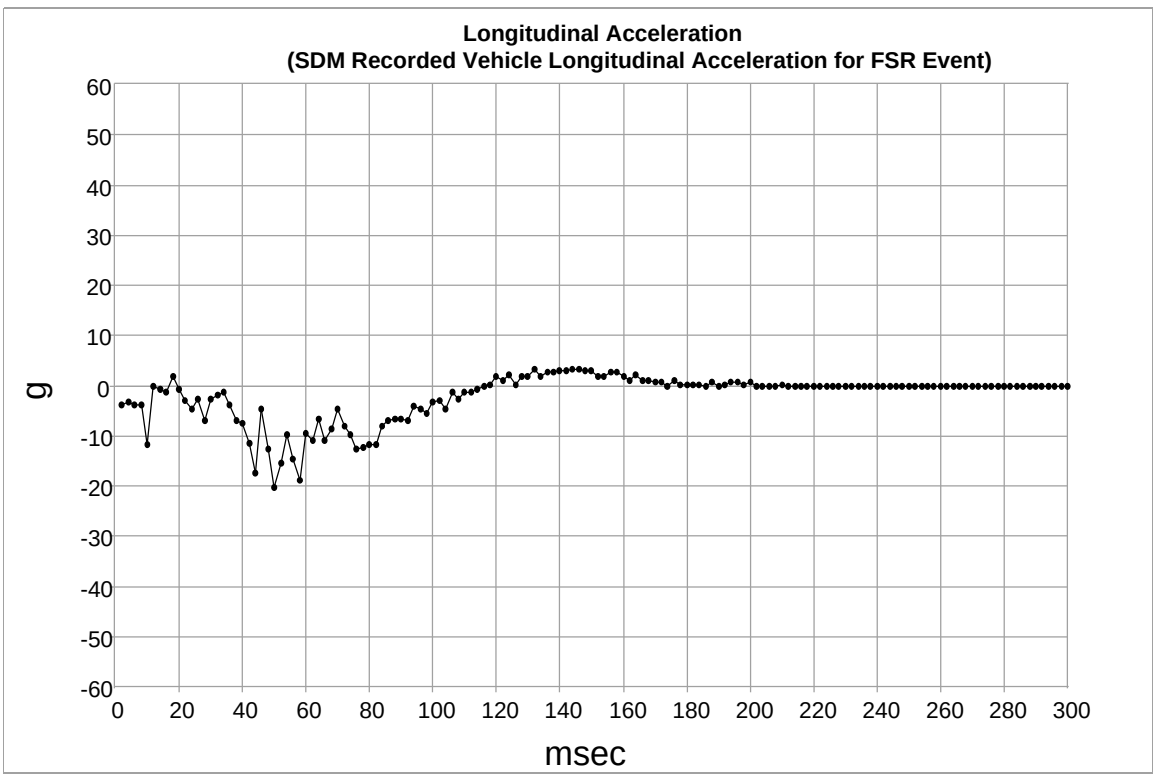
Event Data (Event Record 2)

Driver 1st Stage Deployment Loop Commanded	Yes
Passenger 1st Stage Deployment Loop Commanded	No
Driver 2nd Stage Deployment Loop Commanded	Yes
Passenger 2nd Stage Deployment Loop Commanded	No
Driver Pretensioner Deployment Loop #1 Commanded	Yes
Passenger Pretensioner Deployment Loop #1 Commanded	Yes
Driver Pretensioner Deployment Loop #2 Commanded	Yes
Passenger Pretensioner Deployment Loop #2 Commanded	Yes
Driver Thorax Loop Commanded	No
Passenger Thorax Loop Commanded	No
Left Row 2 Thorax Loop Commanded	No
Right Row 2 Thorax Loop Commanded	No
Left Row 1 Roof Rail/Head Curtain Loop Commanded	Yes
Right Row 1 Roof Rail/Head Curtain Loop Commanded	Yes
Driver Knee Deployment Loop Commanded	Yes
Passenger Knee Deployment Loop Commanded	No
Frontal Air Bag Deployment, Time to 1st Stage Deployment, Driver (Driver 1st Stage Time From Time Zero to Deployment Command Criteria Met) (msec)	29
Frontal Air Bag Deployment, Time to 2nd Stage, Driver (Driver 2nd Stage Time From Time Zero to Deployment Command Criteria Met) (msec)	43
Frontal Air Bag Deployment, Time to 1st Stage Deployment, Right Front Passenger (Passenger 1st Stage Time From Time Zero to Deployment Command Criteria Met) (msec)	Data Not Available
Frontal Air Bag Deployment, Time to 2nd Stage, Right Front Passenger (Passenger 2nd Stage Time From Time Zero to Deployment Command Criteria Met) (msec)	Data Not Available
Side air bag deployment, time to deploy, driver (Driver Thorax/Curtain Time From Time Zero to Deployment Command Criteria Met) (msec)	83
Side air bag deployment, time to deploy, right front passenger (Passenger Thorax/Curtain Time From Time Zero to Deployment Command Criteria Met) (msec)	83
Pretensioner Deployment, Time to Fire, Driver (Driver Pretensioner Time From Time Zero to Deployment Loop #1 or Loop #2 Command Criteria Met) (msec)	Data Not Available
Pretensioner Deployment, Time to Fire, Right Front Passenger (Passenger Pretensioner Time From Time Zero to Deployment Loop #1 or Loop #2 Command Criteria Met) (msec)	Data Not Available

Longitudinal Crash Pulse (Event Record 2)





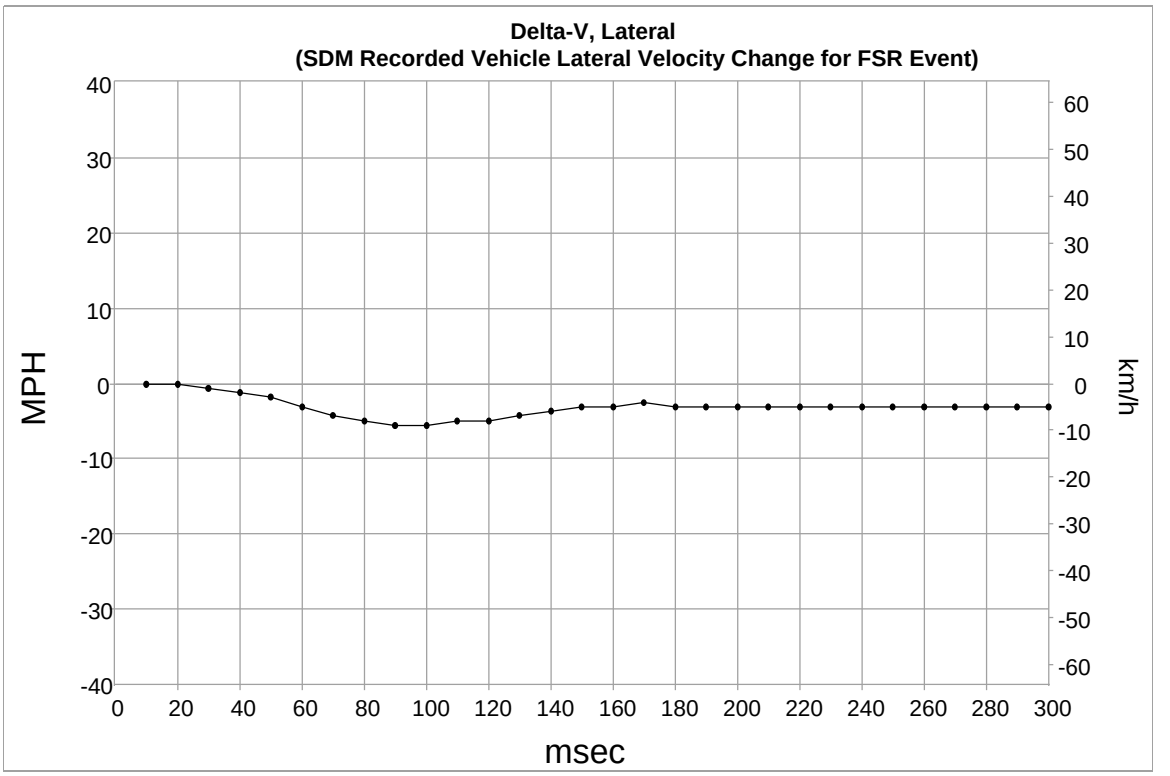
Longitudinal Crash Pulse (Event Record 2)

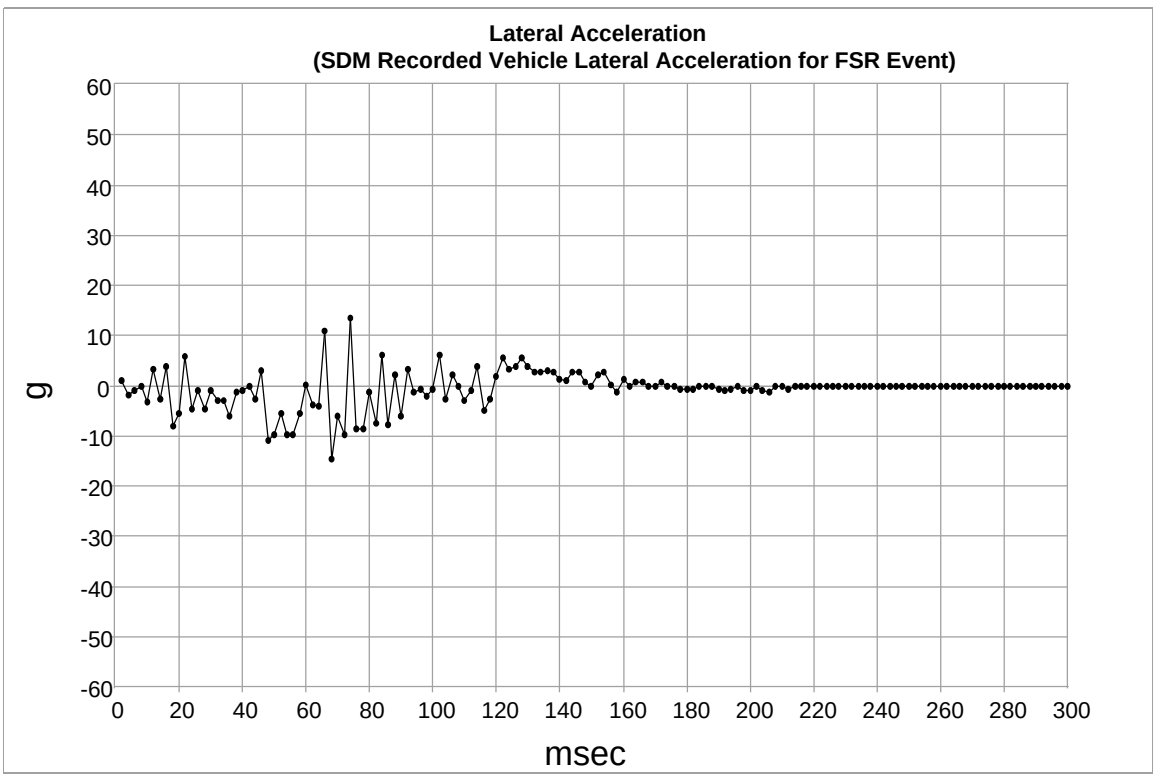
Time (msec)	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (MPH)	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (km/h)
10	-0.6	-1.0
20	-0.6	-1.0
30	-1.9	-3.0
40	-2.5	-4.0
50	-5.6	-9.0
60	-8.7	-14.0
70	-10.6	-17.0
80	-13.0	-21.0
90	-14.9	-24.0
100	-15.5	-25.0
110	-16.2	-26.0
120	-16.2	-26.0
130	-16.2	-26.0
140	-14.9	-24.0
150	-14.3	-23.0
160	-13.7	-22.0
170	-13.7	-22.0
180	-13.0	-21.0
190	-13.0	-21.0
200	-13.0	-21.0
210	-13.0	-21.0
220	-13.0	-21.0
230	-13.0	-21.0
240	-13.0	-21.0
250	-13.0	-21.0
260	-13.0	-21.0
270	-13.0	-21.0
280	-13.0	-21.0
290	-13.0	-21.0
300	-13.0	-21.0

Longitudinal Crash Pulse (Event Record 2)

Time (msec)	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (g)	Time (msec)	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (g)	Time (msec)	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (g)
2	-3.8	102	-3.0	202	-0.2
4	-3.4	104	-4.6	204	-0.2
6	-3.8	106	-1.4	206	-0.2
8	-3.8	108	-2.6	208	-0.2
10	-11.8	110	-1.4	210	0.2
12	-0.2	112	-1.4	212	-0.2
14	-0.6	114	-0.6	214	-0.2
16	-1.4	116	-0.2	216	-0.2
18	1.8	118	0.2	218	-0.2
20	-0.6	120	1.8	220	-0.2
22	-3.0	122	1.0	222	-0.2
24	-4.6	124	2.2	224	-0.2
26	-2.6	126	0.2	226	-0.2
28	-7.0	128	1.8	228	-0.2
30	-2.6	130	1.8	230	-0.2
32	-1.8	132	3.4	232	-0.2
34	-1.4	134	1.8	234	-0.2
36	-3.8	136	2.6	236	-0.2
38	-7.0	138	2.6	238	-0.2
40	-7.4	140	3.0	240	-0.2
42	-11.4	142	3.0	242	-0.2
44	-17.4	144	3.4	244	-0.2
46	-4.6	146	3.4	246	-0.2
48	-12.6	148	3.0	248	-0.2
50	-20.2	150	3.0	250	-0.2
52	-15.4	152	1.8	252	-0.2
54	-9.8	154	1.8	254	-0.2
56	-14.6	156	2.6	256	-0.2
58	-19.0	158	2.6	258	-0.2
60	-9.4	160	1.8	260	-0.2
62	-11.0	162	1.0	262	-0.2
64	-6.6	164	2.2	264	-0.2
66	-11.0	166	1.0	266	-0.2
68	-8.6	168	1.0	268	-0.2
70	-4.6	170	0.6	270	-0.2
72	-8.2	172	0.6	272	-0.2
74	-9.8	174	-0.2	274	-0.2
76	-12.6	176	1.0	276	-0.2
78	-12.2	178	0.2	278	-0.2
80	-11.8	180	0.2	280	-0.2
82	-11.8	182	0.2	282	-0.2
84	-8.2	184	0.2	284	-0.2
86	-7.0	186	-0.2	286	-0.2
88	-6.6	188	0.6	288	-0.2
90	-6.6	190	-0.2	290	-0.2
92	-7.0	192	0.2	292	-0.2
94	-4.2	194	0.6	294	-0.2
96	-4.6	196	0.6	296	-0.2
98	-5.4	198	0.2	298	-0.2
100	-3.4	200	0.6	300	-0.2

Lateral Crash Pulse (Event Record 2)





Lateral Crash Pulse (Event Record 2)

Time (msec)	Delta-V, Lateral (SDM Recorded Vehicle Lateral Velocity Change for FSR Event) (MPH)	Delta-V, Lateral (SDM Recorded Vehicle Lateral Velocity Change for FSR Event) (km/h)
10	0.0	0.0
20	0.0	0.0
30	-0.6	-1.0
40	-1.2	-2.0
50	-1.9	-3.0
60	-3.1	-5.0
70	-4.3	-7.0
80	-5.0	-8.0
90	-5.6	-9.0
100	-5.6	-9.0
110	-5.0	-8.0
120	-5.0	-8.0
130	-4.3	-7.0
140	-3.7	-6.0
150	-3.1	-5.0
160	-3.1	-5.0
170	-2.5	-4.0
180	-3.1	-5.0
190	-3.1	-5.0
200	-3.1	-5.0
210	-3.1	-5.0
220	-3.1	-5.0
230	-3.1	-5.0
240	-3.1	-5.0
250	-3.1	-5.0
260	-3.1	-5.0
270	-3.1	-5.0
280	-3.1	-5.0
290	-3.1	-5.0
300	-3.1	-5.0

Lateral Crash Pulse (Event Record 2)

Time (msec)	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (g)	Time (msec)	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (g)	Time (msec)	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (g)
2	1.0	102	6.2	202	-0.2
4	-1.8	104	-2.6	204	-1.0
6	-1.0	106	2.2	206	-1.4
8	-0.2	108	-0.2	208	-0.2
10	-3.4	110	-3.0	210	-0.2
12	3.4	112	-1.0	212	-0.6
14	-2.6	114	3.8	214	-0.2
16	3.8	116	-5.0	216	-0.2
18	-8.2	118	-2.6	218	-0.2
20	-5.4	120	1.8	220	-0.2
22	5.8	122	5.4	222	-0.2
24	-4.6	124	3.4	224	-0.2
26	-1.0	126	3.8	226	-0.2
28	-4.6	128	5.4	228	-0.2
30	-1.0	130	3.8	230	-0.2
32	-3.0	132	2.6	232	-0.2
34	-3.0	134	2.6	234	-0.2
36	-6.2	136	3.0	236	-0.2
38	-1.4	138	2.6	238	-0.2
40	-1.0	140	1.4	240	-0.2
42	-0.2	142	1.0	242	-0.2
44	-2.6	144	2.6	244	-0.2
46	3.0	146	2.6	246	-0.2
48	-11.0	148	0.6	248	-0.2
50	-9.8	150	-0.2	250	-0.2
52	-5.4	152	2.2	252	-0.2
54	-9.8	154	2.6	254	-0.2
56	-9.8	156	0.2	256	-0.2
58	-5.4	158	-1.4	258	-0.2
60	0.2	160	1.4	260	-0.2
62	-3.8	162	-0.2	262	-0.2
64	-4.2	164	0.6	264	-0.2
66	11.0	166	0.6	266	-0.2
68	-14.6	168	-0.2	268	-0.2
70	-6.2	170	-0.2	270	-0.2
72	-9.8	172	0.6	272	-0.2
74	13.4	174	-0.2	274	-0.2
76	-8.6	176	-0.2	276	-0.2
78	-8.6	178	-0.6	278	-0.2
80	-1.4	180	-0.6	280	-0.2
82	-7.4	182	-0.6	282	-0.2
84	6.2	184	-0.2	284	-0.2
86	-7.8	186	-0.2	286	-0.2
88	2.2	188	-0.2	288	-0.2
90	-6.2	190	-0.6	290	-0.2
92	3.4	192	-1.0	292	-0.2
94	-1.4	194	-0.6	294	-0.2
96	-0.6	196	-0.2	296	-0.2
98	-2.2	198	-1.0	298	-0.2
100	-0.6	200	-1.0	300	-0.2

Rollover Crash Pulse (Event Record 2)
SDM Recorded Vehicle Roll Rate

Contains No Recorded Data

Rollover Crash Pulse (Event Record 2)
Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event)

Contains No Recorded Data

Vertical Crash Pulse (Event Record 2)
Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event)

Contains No Recorded Data

Pre-Crash Data -5.0 to -0.5 sec (Event Record 2)

Times (sec)	Accelerator Pedal, % Full (Accelerator Pedal Position)	Service Brake (Brake Switch Circuit State)	Engine RPM (Engine Speed)	Engine Throttle, % Full (Throttle Position)	Speed, Vehicle Indicated (Vehicle Speed) (MPH [km/h])
-5.0	2	Off	704	14	2 [3]
-4.5	3	Off	832	18	2 [4]
-4.0	5	Off	960	22	3 [5]
-3.5	0	Off	960	11	4 [6]
-3.0	0	On	832	12	4 [7]
-2.5	0	On	768	11	4 [7]
-2.0	0	On	768	11	4 [6]
-1.5	0	On	704	11	3 [5]
-1.0	0	Off	704	12	3 [5]
-0.5	0	Off	640	11	3 [5]

Pre-Crash Data -2.0 to -0.5 sec (Event Record 2)

Times (sec)	Cruise Control Active	Cruise Control Resume Switch Active	Cruise Control Set Switch Active	Engine Torque (lb-ft [N-m])	Reduced Engine Power Mode Indicator
-2.0	No	No	No	-3 [-4]	Off
-1.5	No	No	No	2 [3]	Off
-1.0	No	No	No	6 [8]	Off
-0.5	No	No	No	3 [4]	Off

Hexadecimal Data

Data that the vehicle manufacturer has specified for data retrieval is shown in the hexadecimal data section of the CDR report. The hexadecimal data section of the CDR report may contain data that is not translated by the CDR program. The control module contains additional data that is not retrievable by the CDR system.

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FF FD 40 FC C2 7C 00

DPID $15
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DPID $16
08 09 0A 0D 0E 13 14

DPID $17
00 0C 00 0B 00 00 00

DPID $32
00 FD 05 B8 00 00 00

DPID $35
78 00 00 00 00 00 00

DID $01
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DID $03
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DID $05
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DID $07
30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30

DID $09
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DID $0B
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DID $30
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DID $C1
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DID $C2
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DID $C3
01 5E 77 B0

DID $CB
00 CF 5C BC

DID $31

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 0170   B6 84 B7 84 B8 84 B9 84 BA 84
 0180   BB 85 BB 85 BC 85 BC 85 96 83
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 0200   A0 82 A2 85 9D 7F 9A 8B 9A 84
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 0280   92 7F 95 83 96 85 90 7C 90 84
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DID $33

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0750   FF FF FF FF FF FF FF FF FF FF
0760   FF FF FF FF FF FF FF FF FF FF
0770   FF FF FF FF FF FF FF FF FF FF
0780   FF FF FF FF FF FF FF FF FF FF
0790   FF FF FF FF FF FF FF FF FF FF
0800   FF FF FF FF FF FF FF FF FF FF
0810   FF FF FF FF FF FF FF FF FF FF
0820   FF FF FF FF FF FF FF FF FF FF
0830   FF FF FF FF FF FF FF FF FF FF
0840   FF FF FF FF FF FF FF FF FF FF
0850   FF FF FF FF FF FF FF FF FF FF
0860   FF FF FF FF FF FF FF FF FF FF
0870   FF FF FF FF FF FF FF FF FF FF
0880   FF FF FF FF FF FF FF FF FF FF
0890   FF FF FF FF FF FF FF FF FF FF
0900   FF FF FF FF FF FF FF FF FF FF
0910   FF FF FF FF FF FF FF FF FF FF
0920   FF FF FF FF FF FF FF FF FF FF
0930   FF FF FF FF FF FF FF FF FF FF
0940   FF FF FF FF FF FF FF FF FF FF
0950   FF FF FF FF FF FF FF FF FF FF
0960   FF FF FF FF FF FF FF FF FF FF
0970   FF FF FF FF FF FF FF FF FF FF
0980   FF FF FF FF FF FF FF FF FF FF
0990   FF FF FF FF FF FF FF FF FF FF
1000   FF FF FF FF FF FF FF FF FF FF
1010   FF FF FF FF FF FF FF FF FF FF
1020   FF FF FF FF FF FF FF FF FF FF
1030   FF FF FF FF FF FF FF FF FF FF
1040   FF FF FF FF FF FF FF FF FF FF
1050   FF FF FF FF FF FF FF FF FF FF
1060   FF FF FF FF FF FF FF FF FF FF
1070   FF FF FF FF FF FF FF FF FF FF
1080   FF FF FF FF FF FF FF FF FF FF
1090   FF FF FF FF FF FF FF FF FF FF
1100   FF FF FF FF FF FF FF FF FF FF
1110   FF FF FF FF FF FF FF FF FF FF
1120   FF FF FF FF FF FF FF FF FF FF
1130   FF FF FF FF FF FF FF FF FF FF
1140   FF FF FF FF FF FF FF FF FF FF
1150   FF FF FF FF FF FF FF FF FF FF
1160   FF FF FF FF FF FF FF FF FF FF
1170   FF FF FF FF FF FF FF FF FF FF
1180   FF FF FF FF FF FF FF FF FF FF
1190   FF FF FF FF FF FF FF FF FF FF
1200   FF
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Disclaimer of Liability

CDR File Information

User Entered VIN	1G6AU5S88E0183232
User	Inv. Cowan #170
Case Number	15-062138
EDR Data Imaging Date	06/30/2015
Crash Date	06/25/2015
Filename	1G6AU5S88E0183232_ACM 2014 CADILLAC CTS 15-062138.CDRX
Saved on	Tuesday, June 30 2015 at 13:43:02
Collected with CDR version	Crash Data Retrieval Tool 15.0
Reported with CDR version	Crash Data Retrieval Tool 16.1.1
EDR Device Type	Airbag Control Module
Event(s) recovered	Non-Deployment, Deployment

IMPORTANT NOTICE: Robert Bosch LLC and the manufacturers whose vehicles are accessible using the CDR System urge end users to use the latest production release of the Crash Data Retrieval system software when viewing, printing or exporting any retrieved data from within the CDR program. Using the latest version of the CDR software is the best way to ensure that retrieved data has been translated using the most current information provided by the manufacturers of the vehicles supported by this product.

Data Limitations

Recorded Crash Events:

There are two types of recorded crash events for Front, Side, and Rear (FSR) Events. The first is the Non-Deployment Event. A Non-Deployment Event records data but does not deploy the air bag(s). The minimum SDM Recorded Vehicle Velocity Change, that is needed to record a Non-Deployment Event, is five MPH [8 km/h]. A Non-Deployment Event contains Pre-Crash and Crash data. The oldest Non-Deployment event can be overwritten by a Deployment Event, if all three records are full and the Non-Deployment Event is not locked. Non-Deployment Events can be overwritten after approximately 250 ignition cycles. Also, a Non-Deployment event can be recorded if one of the following occurs without the Deployment of any of the frontal air bags, side air bags, or roll bars:

- -Pretensioner(s) only Deployment
- -Head Rest Deployment
- -Battery Cut-Off Deployment

The second type of SDM recorded crash event for FSR Events is the Deployment Event. It also contains Pre-Crash and Crash data. Deployment Events cannot be overwritten or cleared by the SDM.

There are also two types of recorded crash events for Rollover Events. The first is the Non-Deployment (Non-rollover) Event. A Non-Deployment Event records data but does not deploy the air bag(s). A Non-Deployment Event contains Pre-Crash and Crash data. Non-Deployment Rollover event follow the same rules as FSR Non-Deployment events.

The SDM can store up to three Events.

Data:

For FSR Events, SDM Recorded Vehicle Velocity Change reflects the change in velocity that the sensing system experienced during the recorded portion of the event. SDM Recorded Vehicle 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. For Deployment and Non-Deployment Events, the SDM will record 300 milliseconds of data after time zero. The SDM will also record 300 milliseconds of Vehicle Acceleration data after time zero.

For Rollover Events, the SDM may record Lateral Acceleration, Vertical Acceleration, and Roll Rate data, if the SDM is rollover capable. This data reflects what the sensing system experienced during the recorded portion of the event. For Rollover Deployment Events, the SDM will record up to 700 milliseconds of data before the Deployment criteria is met and 290 milliseconds after the Deployment criteria is met.

-Deployment loops may be displayed as being deployed in a Non-Deployment event record, if a Deployment event is qualified during the Non-Deployment event. That is, if two or more events

are occurring at the same time and one is a Non -Deployment event and one of the others is a Deployment event, and the Deployment event is qualified while the Non -Deployment is still active, the deployed loops may be recorded in the Non -Deployment event record.
-Deployment loops can only be deployed once per module power cycle.
-Time between events is recorded in 10 msec intervals and is displayed in seconds for a maximum time of 655.33 seconds. The counter measures the time from the start of one event to the start of the next event if both events occur within the same ignit ion cycle.
-The Maximum SDM Recorded Vehicle Velocity Change may occur between the recorded 10 millisecond sample points of the SDM Recorded Vehicle Velocity Cha nge.
-Event Recording Complete will indicate if data from the recorded e vent has been fully written to the SDM memory or if it has been in terrupted and not fully written.
-SDM Recorded Vehicle Speed accuracy can be affected by various fac tors, including but not limited to the following:
    -Significant changes in the tire's rolling radius
    -Final drive axle ratio changes
    -Wheel lockup and wheel slip
-Brake Switch Circuit Status indicates the open/closed state of the brake switch circuit.
-Pre-Crash data is recorded asynchronously. The 0.5 second Pre-crash data value (most recent recorded data point) is the data poi nt last sampled before Time Zero. That is to say, the last data point may have been captured just before Time Zero but no more tha n 0.5 second before Time Zero. All subsequent Pre -crash data values are referenced from this data point.
-Pre-Crash Electronic Data Validity Check Status indicates "Data Invali d" if:
    -The SDM receives a message with an "invalid" flag from the module sending the pre -crash data
-Pre-Crash Electronic Data Validity Check Status indicates "Data Not Av ailable" if:
    -No data is received from the module sending the pre -crash data
-Belt Switch Circuit Status indicates the status of the seat belt s witch circuit.
-The ignition cycle counter will increment when the power mode cycl es from OFF/Accessory to RUN. Applying and removing of battery po wer to the module will not increment the ignition cycle counter.
-Ignition Cycles Since DTCs Were Last Cleared can record a maximum value of 253 cycles and can only be reset by a scan tool.
-Deployment Event Counter tracks the number of Deployment events th at have occurred during the SDM's lifetime.
-Event Counter tracks the number of qualified events (either Deploy ments, Non-deploy, or Rollover events) that have occurred during the SDM's li fetime.
-The Time Zero to Deployment Command Criteria Met times for the fol lowing will be indicated for whichever occurs first:
    -Driver Thorax or Driver Curtain
    -Passenger Thorax or Passenger Curtain
    -Driver Pretensioner Loop # 1 or Driver Pretensioner Loop # 2
    -Passenger Pretensioner Loop # 1 or Passenger Pretensioner Loop # 2
-For Deployment Events, DTC B 0052 (Deployment commanded) shall be recorded with the remainder of the data for this event even though it occurred after Event Enable.
-Once a firing loop has been commanded to be deployed, it will not be commanded to be deployed again during the same ignition cycle. Firing loop times for subsequent deployment type events, during the same ignition cycle, will record the deployment times as N/A.
-The GM parameter name is displayed in parentheses after the NHTSA Part 563 parameter name.
-The reported range of the longitudinal and lateral acceleration va lues is approximately ± 50 g.
-All data should be examined in conjunction with other available ph ysical evidence from the vehicle and scene.

Data Source:
All SDM recorded data is measured, calculated, and stored internal ly, except for the following:
-Vehicle Status Data (Pre -Crash) is transmitted by the Body Control Module, via the vehicle' s communication network.
-The Belt Switch Circuit is wired directly to the SDM.

Data Element Sign Convention:
The following table provides an explanation of the sign notation f or data elements that may be included in this CDR report. Directi onal references to sign notation are all from the perspective of the driver when seated in the vehicle facing the direction of f orward vehicle travel.

Data Element Name	Positive Sign Notation Indicates
Longitudinal Acceleration	Forward
Longitudinal Velocity Change	Forward
Lateral Acceleration	Left to Right
Lateral Velocity Change	Left to Right
Vertical Acceleration	Downward
Roll Rate	Clockwise Rotation

Hexadecimal Data:
Data that the vehicle manufacturer has specified for data retrieva l is shown in the hexadecimal data section of the CDR report. The hexadecimal data section of the CDR report may contain data that is not translated by the CDR program. The control modul e contains additional data that is not retrievable by the CDR tool .

01049 _SDM 30-autoliv_r 007

Event Data General (part one)

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DPID $32 Bytes 2-3	$05B8	Ignition Cycle, Download (Ignition Cycles at Investigation)	1464	counts
DID $01 Bytes 0-1	$3030	ESS # 1 Traceability Data, Component Identifier	00	
DID $01 Bytes 2-5	$30303030	ESS # 1 Traceability Data, Part Number/Broadcast Code	0000	
DID $01 Byte 6	$30	ESS # 1 Traceability Data, Supplier Code	0	
DID $01 Bytes 7-15	$303030303030303030	ESS # 1 Traceability Data, Traceability Number	000000000	
DID $03 Bytes 0-1	$3030	ESS # 2 Traceability Data, Component Identifier	00	
DID $03 Bytes 2-5	$30303030	ESS # 2 Traceability Data, Part Number/Broadcast Code	0000	
DID $03 Byte 6	$30	ESS # 2 Traceability Data, Supplier Code	0	
DID $03 Bytes 7-15	$303030303030303030	ESS # 2 Traceability Data, Traceability Number	000000000	
DID $05 Bytes 0-1	$3030	ESS # 3 Traceability Data, Component Identifier	00	
DID $05 Bytes 2-5	$30303030	ESS # 3 Traceability Data, Part Number/Broadcast Code	0000	
DID $05 Byte 6	$30	ESS # 3 Traceability Data, Supplier Code	0	
DID $05 Bytes 7-15	$303030303030303030	ESS # 3 Traceability Data, Traceability Number	000000000	
DID $07 Bytes 0-1	$3030	ESS # 4 Traceability Data, Component Identifier	00	
DID $07 Bytes 2-5	$30303030	ESS # 4 Traceability Data, Part Number/Broadcast Code	0000	
DID $07 Byte 6	$30	ESS # 4 Traceability Data, Supplier Code	0	
DID $07 Bytes 7-15	$303030303030303030	ESS # 4 Traceability Data, Traceability Number	000000000	
DID $09 Bytes 0-1	$3030	ESS # 5 Traceability Data, Component Identifier	00	
DID $09 Bytes 2-5	$30303030	ESS # 5 Traceability Data, Part Number/Broadcast Code	0000	
DID $09 Byte 6	$30	ESS # 5 Traceability Data, Supplier Code	0	
DID $09 Bytes 7-15	$303030303030303030	ESS # 5 Traceability Data, Traceability Number	000000000	
DID $0B Bytes 0-1	$3030	ESS # 6 Traceability Data, Component Identifier	00	
DID $0B Bytes 2-5	$30303030	ESS # 6 Traceability Data, Part Number/Broadcast Code	0000	
DID $0B Byte 6	$30	ESS # 6 Traceability Data, Supplier Code	0	
DID $0B Bytes 7-15	$303030303030303030	ESS #6 Traceability Data, Traceability Number	000000000	
DID $0D Bytes 0-1	$3030	ESS # 7 Traceability Data, Component Identifier	00	
DID $0D Bytes 2-5	$30303030	ESS # 7 Traceability Data, Part Number/Broadcast Code	0000	
DID $0D Byte 6	$30	ESS # 7 Traceability Data, Supplier Code	0	

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $0D Bytes 7-15	$3030303030303 03030	ESS # 7 Traceability Data, Traceability Number	000000000	
DID $0F Bytes 0-1	$3030	ESS # 8 Traceability Data, Component Identifier	00	
DID $0F Bytes 2-5	$30303030	ESS # 8 Traceability Data, Part Number/Broadcast Code	0000	
DID $0F Byte 6	$30	ESS # 8 Traceability Data, Supplier Code	0	
DID $0F Bytes 7-15	$3030303030303 03030	ESS # 8 Traceability Data, Traceability Number	000000000	
DID $30 Byte 0	$01	Dynamic Deployment Event Counter	1	counts
DID $30 Bytes 1-2	$0002	Multi-Event, Number of Events (Dynamic Event Counter)	2	counts
DID $30 Byte 3	$02	Dynamic OnStar Notification Event Counter	2	counts

Event Record #1 Data

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 0	$A5	Complete File Recorded (Event Recording Complete)	Yes	
DID $31 Byte 1, bit 7	$78	Event Record Type	Non-Deployment	
DID $31 Byte 1, bit 6	$78	Crash Record Locked	Yes	
DID $31 Byte 1, bit 5	$78	OnStar Deployment Status Data Sent	Yes	
DID $31 Byte 1, bit 4	$78	OnStar SDM Recorded Vehicle Velocity Change Data Sent	Yes	
DID $31 Byte 1, bit 3	$78	High Voltage Disable Notification Sent	Yes	
DID $31 Byte 1, bit 2	$78	Deployment Commanded in Energy Reserve Mode	No	
DID $31 Byte 2	$00	Deployment Event Counter	0	counts
DID $31 Bytes 3-4	$0001	Multi-Event, Number of Events (Event Counter)	1	counts
DID $31 Byte 5	$01	OnStar Notification Event Counter	1	counts
DID $31 Byte 6, bit 3	$0E	Algorithm Active: Rear	Yes	
DID $31 Byte 6, bit 2	$0E	Algorithm Active: Rollover	Yes	
DID $31 Byte 6, bit 1	$0E	Algorithm Active: Side	Yes	
DID $31 Byte 6, bit 0	$0E	Algorithm Active: Frontal	No	
DID $31 Bytes 7-8	$05B8	Ignition Cycle, Crash (Ignition Cycles at Event)	1464	counts
DID $31 Bytes 9-10	$FFFF	Time From Event 1 to 2 (Time Between Events)	Data Not Available	seconds
DID $31 Byte 11 bit 0	$00	Concurrent Event Flag Set	No	
DID $31 Byte 14, bit 7	$40	Event Severity Status: Rollover	No	
DID $31 Byte 14, bit 6	$40	Event Severity Status: Rear	Yes	
DID $31 Byte 14, bit 5	$40	Event Severity Status: Right Side	No	
DID $31 Byte 14, bit 4	$40	Event Severity Status: Left Side	No	
DID $31 Byte 14, bit 3	$40	Event Severity Status: Frontal Stage 2	No	
DID $31 Byte 14, bit 2	$40	Event Severity Status: Frontal Stage 1	No	
DID $31 Byte 14, bit 1	$40	Event Severity Status: Frontal Pretensioner	No	
DID $31 Byte 15 bit 7	$03	Driver 1st Stage Deployment Loop Commanded	No	
DID $31 Byte 15 bit 6	$03	Passenger 1st Stage Deployment Loop Commanded	No	
DID $31 Byte 15 bit 5	$03	Driver 2nd Stage Deployment Loop Commanded	No	
DID $31 Byte 15 bit 3	$03	Passenger 2nd Stage Deployment Loop Commanded	No	
DID $31 Byte 15 bit 1	$03	Driver Pretensioner Deployment Loop #1 Commanded	Yes	
DID $31 Byte 15 bit 0	$03	Passenger Pretensioner Deployment Loop #1 Commanded	Yes	
DID $31 Byte 16 bit 7	$C0	Driver Pretensioner Deployment Loop #2 Commanded (If Equipped)	Yes	
DID $31 Byte 16 bit 6	$C0	Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)	Yes	
DID $31 Byte 16 bit 5	$C0	Driver Thorax Loop Commanded (If Equipped)	No	

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 16 bit 4	$C0	Passenger Thorax Loop Commanded (If Equipped)	No	
DID $31 Byte 16 bit 3	$C0	Left Row 2 Thorax Loop Commanded (If Equipped)	No	
DID $31 Byte 16 bit 2	$C0	Right Row 2 Thorax Loop Commanded (If Equipped)	No	
DID $31 Byte 16 bit 1	$C0	Left Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No	
DID $31 Byte 16 bit 0	$C0	Right Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No	
DID $31 Byte 17 bit 7	$00	Left Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No	
DID $31 Byte 17 bit 6	$00	Right Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No	
DID $31 Byte 17 bit 5	$00	Left Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No	
DID $31 Byte 17 bit 4	$00	Right Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No	
DID $31 Byte 17 bit 3	$00	Driver Knee Deployment Loop Commanded (If Equipped)	No	
DID $31 Byte 17 bit 2	$00	Passenger Knee Deployment Loop Commanded (If Equipped)	No	
DID $31 Byte 17 bit 1	$00	Left Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No	
DID $31 Byte 17 bit 0	$00	Right Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No	
DID $31 Byte 18 bit 7	$00	Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No	
DID $31 Byte 18 bit 6	$00	Battery Cutoff Loop Commanded (If Equipped)	No	
DID $31 Byte 18 bit 5	$00	Driver Roll Bar Loop Commanded (If Equipped)	No	
DID $31 Byte 18 bit 4	$00	Passenger Roll Bar Loop Commanded (If Equipped)	No	
DID $31 Byte 18 bit 3	$00	Steering Column Energy Absorbing Loop Commanded (If Equipped)	No	
DID $31 Byte 18 bit 2	$00	Driver Head Rest Loop Commanded (If Equipped)	No	
DID $31 Byte 18 bit 1	$00	Passenger Head Rest Loop Commanded (If Equipped)	No	
DID $31 Byte 18 bit 0	$00	Left Row 2 Head Rest Loop Commanded (If Equipped)	No	
DID $31 Byte 19 bit 7	$00	Right Row 2 Head Rest Loop Commanded (If Equipped)	No	
DID $31 Byte 19 bit 6	$00	Center Row 2 Head Rest Loop Commanded (If Equipped)	No	
DID $31 Byte 19 bit 5	$00	High Voltage Battery Cutoff Commanded (If Equipped)	No	
DID $31 Byte 19 bit 4	$00	Driver Center Inboard Loop Commanded (If Equipped)	No	
DID $31 Byte 19 bit 3	$00	Driver Seatbelt Load Limiter Loop Commanded (If Equipped)	No	
DID $31 Byte 19 bit 2	$00	Passenger Seatbelt Load Limiter Loop Commanded (If Equipped)	No	
DID $31 Byte 19 bit 1	$00	Driver Active Vent Loop Commanded (If Equipped)	No	
DID $31 Byte 19 bit 0	$00	Passenger Active Vent Loop Commanded (If Equipped)	No	
DID $31 Byte 20 bits 7-6	$4C	Safety Belt Status, Driver (Driver Belt Switch Circuit Status)	Buckled	
DID $31 Byte 20 bits 5-4	$4C	Safety Belt Status, Right Front Passenger (Passenger Belt Switch Circuit Status)	Not Buckled	

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 20 bits 3-2	$4C	Center Front Row Belt Switch Circuit Status (If Equipped)	Data Not Available	
DID $31 Byte 21 bits 7-6	$FC	Left Row 2 Belt Switch Circuit Status (If Equipped)	Data Not Available	
DID $31 Byte 21 bits 5-4	$FC	Center Row 2 Belt Switch Circuit Status (If Equipped)	Data Not Available	
DID $31 Byte 21 bits 3-2	$FC	Left Row 2 Belt Switch Circuit Status (If Equipped)	Data Not Available	
DID $31 Byte 22 bits 7-6	$FC	Left Row 3 Belt Switch Circuit Status (If Equipped)	Data Not Available	
DID $31 Byte 22 bits 5-4	$FC	Center Row 3 Belt Switch Circuit Status (If Equipped)	Data Not Available	
DID $31 Byte 22 bits 3-2	$FC	Right Row 3 Belt Switch Circuit Status (If Equipped)	Data Not Available	
DID $31 Byte 23 bits 7-6	$C0	Seat Track Position Switch, Foremost, Status, Driver (Driver Seat Position Status) (If Equipped)	Data Not Available	
DID $31 Byte 23 bits 5-4	$C0	Seat Track Position Switch, Foremost, Status, Right Front Passenger (Passenger Seat Position Status) (If Equipped)	No (Rearward)	
DID $31 Byte 24 bits 7-5	$00	Passenger Seat Occupancy Status	Empty	
DID $31 Byte 25 bits 7-4	$00	Passenger Classification Status	Not Applicable	
DID $31 Byte 26 bits 7-6	$C0	Passenger SIR Suppression Switch Circuit Status (If Equipped)	Data Not Available	
DID $31 Byte 26 bits 5-4	$C0	Rollover Disable Switch Status (If Equipped)	Suppress	
DID $31 Byte 26 bits 3-2	$C0	Rollover Disable Indication Status (If Equipped)	Off	
DID $31 Byte 27 bits 7-6	$10	Passenger Air Bag ON Indicator Status	Off	
DID $31 Byte 27 bits 5-4	$10	Passenger Air Bag OFF Indicator Status	On	
DID $31 Byte 28	$00	Accelerator Pedal, % Full (Accelerator Pedal Position) (-0.5 sec)	0	%
DID $31 Byte 29	$00	Accelerator Pedal, % Full (Accelerator Pedal Position) (-1.0 sec)	0	%
DID $31 Byte 30	$00	Accelerator Pedal, % Full (Accelerator Pedal Position) (-1.5 sec)	0	%
DID $31 Byte 31	$00	Accelerator Pedal, % Full (Accelerator Pedal Position) (-2.0 sec)	0	%
DID $31 Byte 32	$00	Accelerator Pedal, % Full (Accelerator Pedal Position) (-2.5 sec)	0	%
DID $31 Byte 33	$00	Accelerator Pedal, % Full (Accelerator Pedal Position) (-3.0 sec)	0	%
DID $31 Byte 34	$05	Accelerator Pedal, % Full (Accelerator Pedal Position) (-3.5 sec)	5	%
DID $31 Byte 35	$03	Accelerator Pedal, % Full (Accelerator Pedal Position) (-4.0 sec)	3	%
DID $31 Byte 36	$02	Accelerator Pedal, % Full (Accelerator Pedal Position) (-4.5 sec)	2	%
DID $31 Byte 37	$00	Accelerator Pedal, % Full (Accelerator Pedal Position) (-5.0 sec)	0	%
DID $31 Byte 38 bits 7-6	$15	Service Brake (Brake Switch Circuit State) (-0.5 sec)	Off	
DID $31 Byte 38 bits 5-4	$15	Service Brake (Brake Switch Circuit State) (-1.0 sec)	On	

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 38 bits 3-2	$15	Service Brake (Brake Switch Circuit State) (-1.5 sec)	On	
DID $31 Byte 38 bits 1-0	$15	Service Brake (Brake Switch Circuit State) (-2.0 sec)	On	
DID $31 Byte 39 bits 7-6	$40	Service Brake (Brake Switch Circuit State) (-2.5 sec)	On	
DID $31 Byte 39 bits 5-4	$40	Service Brake (Brake Switch Circuit State) (-3.0 sec)	Off	
DID $31 Byte 39 bits 3-2	$40	Service Brake (Brake Switch Circuit State) (-3.5 sec)	Off	
DID $31 Byte 39 bits 1-0	$40	Service Brake (Brake Switch Circuit State) (-4.0 sec)	Off	
DID $31 Byte 40 bits 7-6	$00	Service Brake (Brake Switch Circuit State) (-4.5 sec)	Off	
DID $31 Byte 40 bits 5-4	$00	Service Brake (Brake Switch Circuit State) (-5.0 sec)	Off	
DID $31 Byte 41 bits 7-6	$00	Cruise Control Resume Switch Active (-0.5 sec)	No	
DID $31 Byte 41 bits 5-4	$00	Cruise Control Resume Switch Active (-1.0 sec)	No	
DID $31 Byte 41 bits 3-2	$00	Cruise Control Resume Switch Active (-1.5 sec)	No	
DID $31 Byte 41 bits 1-0	$00	Cruise Control Resume Switch Active (-2.0 sec)	No	
DID $31 Byte 42 bits 7-6	$00	Cruise Control Active (-0.5 sec)	No	
DID $31 Byte 42 bits 5-4	$00	Cruise Control Active (-1.0 sec)	No	
DID $31 Byte 42 bits 3-2	$00	Cruise Control Active (-1.5 sec)	No	
DID $31 Byte 42 bits 1-0	$00	Cruise Control Active (-2.0 sec)	No	
DID $31 Byte 43 bits 7-6	$00	Cruise Control Set Switch Active (-0.5 sec)	No	
DID $31 Byte 43 bits 5-4	$00	Cruise Control Set Switch Active (-1.0 sec)	No	
DID $31 Byte 43 bits 3-2	$00	Cruise Control Set Switch Active (-1.5 sec)	No	
DID $31 Byte 43 bits 1-0	$00	Cruise Control Set Switch Active (-2.0 sec)	No	
DID $31 Byte 44 bits 7-6	$00	Reduced Engine Power Mode indicator (-0.5 sec)	Off	
DID $31 Byte 44 bits 5-4	$00	Reduced Engine Power Mode indicator (-1.0 sec)	Off	
DID $31 Byte 44 bits 3-2	$00	Reduced Engine Power Mode indicator (-1.5 sec)	Off	
DID $31 Byte 44 bits 1-0	$00	Reduced Engine Power Mode indicator (-2.0 sec)	Off	
DID $31 Byte 45	$0B	Engine RPM (Engine Speed) (-0.5 sec)	704	RPM
DID $31 Byte 46	$0B	Engine RPM (Engine Speed) (-1.0 sec)	704	RPM
DID $31 Byte 47	$0C	Engine RPM (Engine Speed) (-1.5 sec)	768	RPM
DID $31 Byte 48	$0C	Engine RPM (Engine Speed)(-2.0 sec)	768	RPM
DID $31 Byte 49	$0D	Engine RPM (Engine Speed) (-2.5 sec)	832	RPM
DID $31 Byte 50	$0F	Engine RPM (Engine Speed) (-3.0 sec)	960	RPM
DID $31 Byte 51	$0F	Engine RPM (Engine Speed) (-3.5 sec)	960	RPM
DID $31 Byte 52	$0D	Engine RPM (Engine Speed) (-4.0 sec)	832	RPM
DID $31 Byte 53	$0B	Engine RPM (Engine Speed)(-4.5 sec)	704	RPM
DID $31 Byte 54	$0A	Engine RPM (Engine Speed) (-5.0 sec)	640	RPM
DID $31 Bytes 55,56 (12 bits)	$06AF	Engine Torque (-0.5 sec)	6 [8]	Foot-pounds [Newton meters]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Bytes 57,58 (12 bits)	$06A6	Engine Torque (-1.0 sec)	2 [3]	Foot-pounds [Newton meters]
DID $31 Bytes 59,60 (12 bits)	$0698	Engine Torque (-1.5 sec)	-3 [-4]	Foot-pounds [Newton meters]
DID $31 Bytes 61,62 (12 bits)	$0694	Engine Torque (-2.0 sec)	-4 [-6]	Foot-pounds [Newton meters]
DID $31 Byte 63	$0C	Engine Throttle, % Full (Throttle Position) (-0.5 sec)	12	% full throttle
DID $31 Byte 64	$0B	Engine Throttle, % Full (Throttle Position) (-1.0 sec)	11	% full throttle
DID $31 Byte 65	$0B	Engine Throttle, % Full (Throttle Position) (-1.5 sec)	11	% full throttle
DID $31 Byte 66	$0B	Engine Throttle, % Full (Throttle Position) (-2.0 sec)	11	% full throttle
DID $31 Byte 67	$0C	Engine Throttle, % Full (Throttle Position)(-2.5 sec)	12	% full throttle
DID $31 Byte 68	$0B	Engine Throttle, % Full (Throttle Position) (-3.0 sec)	11	% full throttle
DID $31 Byte 69	$16	Engine Throttle, % Full (Throttle Position) (-3.5 sec)	22	% full throttle
DID $31 Byte 70	$12	Engine Throttle, % Full (Throttle Position) (-4.0 sec)	18	% full throttle
DID $31 Byte 71	$0E	Engine Throttle, % Full (Throttle Position) (-4.5 sec)	14	% full throttle
DID $31 Byte 72	$0B	Engine Throttle, % Full (Throttle Position)(-5.0 sec)	11	% full throttle
DID $31 Byte 73	$05	Speed, Vehicle Indicated (Vehicle Speed) (-0.5 sec)	3 [5]	MPH [km/h]
DID $31 Byte 74	$05	Speed, Vehicle Indicated (Vehicle Speed) (-1.0 sec)	3 [5]	MPH [km/h]
DID $31 Byte 75	$06	Speed, Vehicle Indicated (Vehicle Speed) (-1.5 sec)	4 [6]	MPH [km/h]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 76	$07	Speed, Vehicle Indicated (Vehicle Speed) (-2.0 sec)	4 [7]	MPH [km/h]
DID $31 Byte 77	$07	Speed, Vehicle Indicated (Vehicle Speed)(-2.5 sec)	4 [7]	MPH [km/h]
DID $31 Byte 78	$06	Speed, Vehicle Indicated (Vehicle Speed) (-3.0 sec)	4 [6]	MPH [km/h]
DID $31 Byte 79	$05	Speed, Vehicle Indicated (Vehicle Speed) (-3.5 sec)	3 [5]	MPH [km/h]
DID $31 Byte 80	$04	Speed, Vehicle Indicated (Vehicle Speed) (-4.0 sec)	2 [4]	MPH [km/h]
DID $31 Byte 81	$03	Speed, Vehicle Indicated (Vehicle Speed) (-4.5 sec)	2 [3]	MPH [km/h]
DID $31 Byte 82	$02	Speed, Vehicle Indicated (Vehicle Speed)(-5.0 sec)	1 [2]	MPH [km/h]
DID $31 Byte 83 bits 7-6	$00	Low Tire Pressure Warning Lamp Status 0.5 Seconds Prior to Time Zero	Off	
DID $31 Byte 83 bits 5-4	$00	Frontal Air Bag Warning Lamp (SIR Warning Lamp Status 0.5 Seconds Prior to Time Zero)	Off	
DID $31 Bytes 84-85	$FFFD	SIR Warning Lamp ON/OFF Time Continuously	655330	seconds
DID $31 Bytes 86-87	$05AA	Number of Ignition Cycles SIR Warning Lamp was ON/OFF Continuously	1450	
DID $31 Byte 88	$FD	Ignition Cycles Since DTCs Were Last Cleared 0.5 Seconds Prior to Time Zero	253	
DID $31 Bytes 89-90	$0000	DTC number	N/A	
DID $31 Byte 91	$00	DTC fault type	N/A	
DID $31 Bytes 92-93	$0000	DTC number	N/A	
DID $31 Byte 94	$00	DTC fault type	N/A	
DID $31 Bytes 95-96	$0000	DTC number	N/A	
DID $31 Byte 97	$00	DTC fault type	N/A	
DID $31 Bytes 98-99	$0000	DTC number	N/A	
DID $31 Byte 100	$00	DTC fault type	N/A	
DID $31 Bytes 101-102	$0000	DTC number	N/A	
DID $31 Byte 103	$00	DTC fault type	N/A	
DID $31 Bytes 104-105	$0000	DTC number	N/A	
DID $31 Byte 106	$00	DTC fault type	N/A	
DID $31 Bytes 107-108	$0000	DTC number	N/A	
DID $31 Byte 109	$00	DTC fault type	N/A	
DID $31 Bytes 110-111	$0000	DTC number	N/A	

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 112	$00	DTC fault type	N/A	
DID $31 Bytes 113-114	$8052	DTC number	B0052	
DID $31 Byte 115	$00	DTC fault type	$00	
DID $31 Byte 116	$BC	Maximum Delta-V, Longitudinal (Maximum Longitudinal SDM Recorded Vehicle Velocity Change for FSR Event)	38 [61]	MPH [km/h]
DID $31 Byte 117	$95	Time, Maximum Delta-V (Time From FSR Time Zero to Maximum Longitudinal SDM Recorded Vehicle Velocity Change)	298	msec
DID $31 Byte 118	$85	Maximum Delta-V, Lateral (Maximum Lateral SDM Recorded Vehicle Velocity Change for FSR Event)	4 [6]	MPH [km/h]
DID $31 Byte 119	$8B	Time Maximum Delta-V, Lateral (Time From FSR Time Zero to Maximum Lateral SDM Recorded Vehicle Velocity Change)	278	msec
DID $31 Byte 120	$FF	Frontal Air Bag Deployment, Time to 1st Stage Deployment, Driver (Driver 1st Stage Time From Time Zero to Deployment Command Criteria Met)	Data Not Available	msec
DID $31 Byte 121	$FF	Frontal Air Bag Deployment, Time to 2nd Stage, Driver (Driver 2nd Stage Time From Time Zero to Deployment Command Criteria Met)	Data Not Available	msec
DID $31 Byte 122	$FF	Frontal Air Bag Deployment, Time to 1st Stage Deployment, Right Front Passenger (Passenger 1st Stage Time From Time Zero to Deployment Command Criteria Met)	Data Not Available	msec
DID $31 Byte 123	$FF	Frontal Air Bag Deployment, Time to 2nd Stage, Right Front Passenger (Passenger 2nd Stage Time From Time Zero to Deployment Command Criteria Met)	Data Not Available	msec
DID $31 Byte 124	$FF	Side air bag deployment, time to deploy, driver (Driver Thorax/Curtain Time From Time Zero to Deployment Command Criteria Met)	Data Not Available	msec
DID $31 Byte 125	$FF	Side air bag deployment, time to deploy, right front passenger (Passenger Thorax/Curtain Time From Time Zero to Deployment Command Criteria Met)	Data Not Available	msec
DID $31 Byte 126	$28	Pretensioner Deployment, Time to Fire, Driver (Driver Pretensioner Time From Time Zero to Deployment Loop #1 or Loop #2 Command Criteria Met)	40	msec
DID $31 Byte 127	$28	Pretensioner Deployment, Time to Fire, Right Front Passenger (Passenger Pretensioner Time From Time Zero to Deployment Loop #1 or Loop #2 Command Criteria Met)	40	msec
DID $31 Byte 128	$81	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (10 ms)	1.2 [2]	MPH [km/h]
DID $31 Byte 129	$7F	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (10 ms)	0 [0]	MPH [km/h]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 130	$85	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (20 ms)	3.7 [6]	MPH [km/h]
DID $31 Byte 131	$80	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (20 ms)	0.6 [1]	MPH [km/h]
DID $31 Byte 132	$89	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (30 ms)	6.2 [10]	MPH [km/h]
DID $31 Byte 133	$80	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (30 ms)	0.6 [1]	MPH [km/h]
DID $31 Byte 134	$8E	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (40 ms)	9.3 [15]	MPH [km/h]
DID $31 Byte 135	$81	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (40 ms)	1.2 [2]	MPH [km/h]
DID $31 Byte 136	$94	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (50 ms)	13 [21]	MPH [km/h]
DID $31 Byte 137	$81	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (50 ms)	1.2 [2]	MPH [km/h]
DID $31 Byte 138	$9A	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (60 ms)	16.8 [27]	MPH [km/h]
DID $31 Byte 139	$81	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (60 ms)	1.2 [2]	MPH [km/h]
DID $31 Byte 140	$9F	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (70 ms)	19.9 [32]	MPH [km/h]
DID $31 Byte 141	$82	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (70 ms)	1.9 [3]	MPH [km/h]
DID $31 Byte 142	$A4	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (80 ms)	23 [37]	MPH [km/h]
DID $31 Byte 143	$83	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (80 ms)	2.5 [4]	MPH [km/h]
DID $31 Byte 144	$A8	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (90 ms)	25.5 [41]	MPH [km/h]
DID $31 Byte 145	$84	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (90 ms)	3.1 [5]	MPH [km/h]
DID $31 Byte 146	$AC	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (100 ms)	28 [45]	MPH [km/h]
DID $31 Byte 147	$84	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (100 ms)	3.1 [5]	MPH [km/h]
DID $31 Byte 148	$AD	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (110 ms)	28.6 [46]	MPH [km/h]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 149	$84	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (110 ms)	3.1 [5]	MPH [km/h]
DID $31 Byte 150	$AE	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (120 ms)	29.2 [47]	MPH [km/h]
DID $31 Byte 151	$84	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (120 ms)	3.1 [5]	MPH [km/h]
DID $31 Byte 152	$AE	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (130 ms)	29.2 [47]	MPH [km/h]
DID $31 Byte 153	$83	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (130 ms)	2.5 [4]	MPH [km/h]
DID $31 Byte 154	$AF	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (140 ms)	29.8 [48]	MPH [km/h]
DID $31 Byte 155	$83	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (140 ms)	2.5 [4]	MPH [km/h]
DID $31 Byte 156	$AF	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (150 ms)	29.8 [48]	MPH [km/h]
DID $31 Byte 157	$83	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (150 ms)	2.5 [4]	MPH [km/h]
DID $31 Byte 158	$B0	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (160 ms)	30.4 [49]	MPH [km/h]
DID $31 Byte 159	$83	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (160 ms)	2.5 [4]	MPH [km/h]
DID $31 Byte 160	$B1	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (170 ms)	31.1 [50]	MPH [km/h]
DID $31 Byte 161	$83	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (170 ms)	2.5 [4]	MPH [km/h]
DID $31 Byte 162	$B2	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (180 ms)	31.7 [51]	MPH [km/h]
DID $31 Byte 163	$83	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (180 ms)	2.5 [4]	MPH [km/h]
DID $31 Byte 164	$B3	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (190 ms)	32.3 [52]	MPH [km/h]
DID $31 Byte 165	$83	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (190 ms)	2.5 [4]	MPH [km/h]
DID $31 Byte 166	$B4	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (200 ms)	32.9 [53]	MPH [km/h]
DID $31 Byte 167	$83	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (200 ms)	2.5 [4]	MPH [km/h]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 168	$B5	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (210 ms)	33.6 [54]	MPH [km/h]
DID $31 Byte 169	$83	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (210 ms)	2.5 [4]	MPH [km/h]
DID $31 Byte 170	$B6	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (220 ms)	34.2 [55]	MPH [km/h]
DID $31 Byte 171	$84	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (220 ms)	3.1 [5]	MPH [km/h]
DID $31 Byte 172	$B7	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (230 ms)	34.8 [56]	MPH [km/h]
DID $31 Byte 173	$84	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (230 ms)	3.1 [5]	MPH [km/h]
DID $31 Byte 174	$B8	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (240 ms)	35.4 [57]	MPH [km/h]
DID $31 Byte 175	$84	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (240 ms)	3.1 [5]	MPH [km/h]
DID $31 Byte 176	$B9	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (250 ms)	36 [58]	MPH [km/h]
DID $31 Byte 177	$84	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (250 ms)	3.1 [5]	MPH [km/h]
DID $31 Byte 178	$BA	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (260 ms)	36.7 [59]	MPH [km/h]
DID $31 Byte 179	$84	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (260 ms)	3.1 [5]	MPH [km/h]
DID $31 Byte 180	$BB	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (270 ms)	37.3 [60]	MPH [km/h]
DID $31 Byte 181	$85	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (270 ms)	3.7 [6]	MPH [km/h]
DID $31 Byte 182	$BB	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (280 ms)	37.3 [60]	MPH [km/h]
DID $31 Byte 183	$85	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (280 ms)	3.7 [6]	MPH [km/h]
DID $31 Byte 184	$BC	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (290 ms)	37.9 [61]	MPH [km/h]
DID $31 Byte 185	$85	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (290 ms)	3.7 [6]	MPH [km/h]
DID $31 Byte 186	$BC	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (300 ms)	37.9 [61]	MPH [km/h]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 187	$85	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (300 ms)	3.7 [6]	MPH [km/h]
DID $31 Byte 188	$96	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (2 ms)	9.0	G
DID $31 Byte 189	$83	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (2 ms)	1.4	G
DID $31 Byte 190	$99	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (4 ms)	10.2	G
DID $31 Byte 191	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (4 ms)	0.2	G
DID $31 Byte 192	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (6 ms)	2.6	G
DID $31 Byte 193	$85	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (6 ms)	2.2	G
DID $31 Byte 194	$88	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (8 ms)	3.4	G
DID $31 Byte 195	$7A	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (8 ms)	-2.2	G
DID $31 Byte 196	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (10 ms)	1.8	G
DID $31 Byte 197	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (10 ms)	0.2	G
DID $31 Byte 198	$8C	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (12 ms)	5.0	G
DID $31 Byte 199	$86	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (12 ms)	2.6	G
DID $31 Byte 200	$A0	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (14 ms)	13.0	G
DID $31 Byte 201	$82	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (14 ms)	1.0	G
DID $31 Byte 202	$A2	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (16 ms)	13.8	G
DID $31 Byte 203	$85	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (16 ms)	2.2	G
DID $31 Byte 204	$9D	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (18 ms)	11.8	G
DID $31 Byte 205	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (18 ms)	-0.2	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 206	$9A	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (20 ms)	10.6	G
DID $31 Byte 207	$8B	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (20 ms)	4.6	G
DID $31 Byte 208	$9A	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (22 ms)	10.6	G
DID $31 Byte 209	$84	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (22 ms)	1.8	G
DID $31 Byte 210	$A8	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (24 ms)	16.2	G
DID $31 Byte 211	$68	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (24 ms)	-9.4	G
DID $31 Byte 212	$A4	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (26 ms)	14.6	G
DID $31 Byte 213	$93	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (26 ms)	7.8	G
DID $31 Byte 214	$99	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (28 ms)	10.2	G
DID $31 Byte 215	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (28 ms)	-0.2	G
DID $31 Byte 216	$9C	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (30 ms)	11.4	G
DID $31 Byte 217	$7A	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (30 ms)	-2.2	G
DID $31 Byte 218	$A5	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (32 ms)	15.0	G
DID $31 Byte 219	$93	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (32 ms)	7.8	G
DID $31 Byte 220	$A1	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (34 ms)	13.4	G
DID $31 Byte 221	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (34 ms)	-0.2	G
DID $31 Byte 222	$98	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (36 ms)	9.8	G
DID $31 Byte 223	$A1	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (36 ms)	13.4	G
DID $31 Byte 224	$A7	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (38 ms)	15.8	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 225	$69	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (38 ms)	-9.0	G
DID $31 Byte 226	$A5	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (40 ms)	15.0	G
DID $31 Byte 227	$84	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (40 ms)	1.8	G
DID $31 Byte 228	$AD	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (42 ms)	18.2	G
DID $31 Byte 229	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (42 ms)	-0.2	G
DID $31 Byte 230	$96	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (44 ms)	9.0	G
DID $31 Byte 231	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (44 ms)	-0.6	G
DID $31 Byte 232	$B4	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (46 ms)	21.0	G
DID $31 Byte 233	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (46 ms)	0.2	G
DID $31 Byte 234	$B0	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (48 ms)	19.4	G
DID $31 Byte 235	$86	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (48 ms)	2.6	G
DID $31 Byte 236	$AA	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (50 ms)	17.0	G
DID $31 Byte 237	$83	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (50 ms)	1.4	G
DID $31 Byte 238	$B4	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (52 ms)	21.0	G
DID $31 Byte 239	$89	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (52 ms)	3.8	G
DID $31 Byte 240	$9F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (54 ms)	12.6	G
DID $31 Byte 241	$90	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (54 ms)	6.6	G
DID $31 Byte 242	$9D	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (56 ms)	11.8	G
DID $31 Byte 243	$7B	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (56 ms)	-1.8	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 244	$AA	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (58 ms)	17.0	G
DID $31 Byte 245	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (58 ms)	-0.2	G
DID $31 Byte 246	$AD	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (60 ms)	18.2	G
DID $31 Byte 247	$7A	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (60 ms)	-2.2	G
DID $31 Byte 248	$A1	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (62 ms)	13.4	G
DID $31 Byte 249	$91	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (62 ms)	7.0	G
DID $31 Byte 250	$A6	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (64 ms)	15.4	G
DID $31 Byte 251	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (64 ms)	-1.0	G
DID $31 Byte 252	$9F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (66 ms)	12.6	G
DID $31 Byte 253	$76	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (66 ms)	-3.8	G
DID $31 Byte 254	$A3	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (68 ms)	14.2	G
DID $31 Byte 255	$9B	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (68 ms)	11.0	G
DID $31 Byte 256	$A5	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (70 ms)	15.0	G
DID $31 Byte 257	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (70 ms)	-0.6	G
DID $31 Byte 258	$9F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (72 ms)	12.6	G
DID $31 Byte 259	$82	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (72 ms)	1.0	G
DID $31 Byte 260	$A1	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (74 ms)	13.4	G
DID $31 Byte 261	$85	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (74 ms)	2.2	G
DID $31 Byte 262	$A5	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (76 ms)	15.0	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 263	$85	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (76 ms)	2.2	G
DID $31 Byte 264	$A3	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (78 ms)	14.2	G
DID $31 Byte 265	$84	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (78 ms)	1.8	G
DID $31 Byte 266	$9E	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (80 ms)	12.2	G
DID $31 Byte 267	$88	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (80 ms)	3.4	G
DID $31 Byte 268	$9D	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (82 ms)	11.8	G
DID $31 Byte 269	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (82 ms)	0.2	G
DID $31 Byte 270	$9C	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (84 ms)	11.4	G
DID $31 Byte 271	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (84 ms)	-0.6	G
DID $31 Byte 272	$9C	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (86 ms)	11.4	G
DID $31 Byte 273	$8A	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (86 ms)	4.2	G
DID $31 Byte 274	$9C	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (88 ms)	11.4	G
DID $31 Byte 275	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (88 ms)	-0.2	G
DID $31 Byte 276	$9C	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (90 ms)	11.4	G
DID $31 Byte 277	$8A	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (90 ms)	4.2	G
DID $31 Byte 278	$97	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (92 ms)	9.4	G
DID $31 Byte 279	$7B	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (92 ms)	-1.8	G
DID $31 Byte 280	$92	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (94 ms)	7.4	G
DID $31 Byte 281	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (94 ms)	-0.2	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 282	$95	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (96 ms)	8.6	G
DID $31 Byte 283	$83	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (96 ms)	1.4	G
DID $31 Byte 284	$96	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (98 ms)	9.0	G
DID $31 Byte 285	$85	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (98 ms)	2.2	G
DID $31 Byte 286	$90	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (100 ms)	6.6	G
DID $31 Byte 287	$7C	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (100 ms)	-1.4	G
DID $31 Byte 288	$90	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (102 ms)	6.6	G
DID $31 Byte 289	$84	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (102 ms)	1.8	G
DID $31 Byte 290	$8E	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (104 ms)	5.8	G
DID $31 Byte 291	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (104 ms)	-0.6	G
DID $31 Byte 292	$8A	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (106 ms)	4.2	G
DID $31 Byte 293	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (106 ms)	-1.0	G
DID $31 Byte 294	$8A	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (108 ms)	4.2	G
DID $31 Byte 295	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (108 ms)	-1.0	G
DID $31 Byte 296	$89	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (110 ms)	3.8	G
DID $31 Byte 297	$7C	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (110 ms)	-1.4	G
DID $31 Byte 298	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (112 ms)	2.6	G
DID $31 Byte 299	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (112 ms)	-0.2	G
DID $31 Byte 300	$83	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (114 ms)	1.4	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 301	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (114 ms)	0.2	G
DID $31 Byte 302	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (116 ms)	1.8	G
DID $31 Byte 303	$7B	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (116 ms)	-1.8	G
DID $31 Byte 304	$82	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (118 ms)	1.0	G
DID $31 Byte 305	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (118 ms)	-0.2	G
DID $31 Byte 306	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (120 ms)	0.6	G
DID $31 Byte 307	$7A	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (120 ms)	-2.2	G
DID $31 Byte 308	$83	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (122 ms)	1.4	G
DID $31 Byte 309	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (122 ms)	0.2	G
DID $31 Byte 310	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (124 ms)	0.2	G
DID $31 Byte 311	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (124 ms)	-1.0	G
DID $31 Byte 312	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (126 ms)	0.2	G
DID $31 Byte 313	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (126 ms)	-1.0	G
DID $31 Byte 314	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (128 ms)	0.2	G
DID $31 Byte 315	$7B	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (128 ms)	-1.8	G
DID $31 Byte 316	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (130 ms)	0.6	G
DID $31 Byte 317	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (130 ms)	-1.0	G
DID $31 Byte 318	$82	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (132 ms)	1.0	G
DID $31 Byte 319	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (132 ms)	-1.0	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 320	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (134 ms)	0.2	G
DID $31 Byte 321	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (134 ms)	-0.6	G
DID $31 Byte 322	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (136 ms)	0.2	G
DID $31 Byte 323	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (136 ms)	-0.6	G
DID $31 Byte 324	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (138 ms)	0.6	G
DID $31 Byte 325	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (138 ms)	-1.0	G
DID $31 Byte 326	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (140 ms)	0.6	G
DID $31 Byte 327	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (140 ms)	-1.0	G
DID $31 Byte 328	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (142 ms)	0.6	G
DID $31 Byte 329	$7B	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (142 ms)	-1.8	G
DID $31 Byte 330	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (144 ms)	0.6	G
DID $31 Byte 331	$7C	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (144 ms)	-1.4	G
DID $31 Byte 332	$83	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (146 ms)	1.4	G
DID $31 Byte 333	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (146 ms)	-0.2	G
DID $31 Byte 334	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (148 ms)	1.8	G
DID $31 Byte 335	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (148 ms)	-0.2	G
DID $31 Byte 336	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (150 ms)	1.8	G
DID $31 Byte 337	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (150 ms)	-0.2	G
DID $31 Byte 338	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (152 ms)	1.8	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 339	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (152 ms)	-0.2	G
DID $31 Byte 340	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (154 ms)	2.2	G
DID $31 Byte 341	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (154 ms)	-0.6	G
DID $31 Byte 342	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (156 ms)	1.8	G
DID $31 Byte 343	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (156 ms)	-0.2	G
DID $31 Byte 344	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (158 ms)	2.2	G
DID $31 Byte 345	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (158 ms)	-0.2	G
DID $31 Byte 346	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (160 ms)	1.8	G
DID $31 Byte 347	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (160 ms)	-0.2	G
DID $31 Byte 348	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (162 ms)	2.2	G
DID $31 Byte 349	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (162 ms)	-0.2	G
DID $31 Byte 350	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (164 ms)	2.2	G
DID $31 Byte 351	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (164 ms)	-0.2	G
DID $31 Byte 352	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (166 ms)	2.6	G
DID $31 Byte 353	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (166 ms)	-0.2	G
DID $31 Byte 354	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (168 ms)	2.2	G
DID $31 Byte 355	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (168 ms)	-0.6	G
DID $31 Byte 356	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (170 ms)	2.2	G
DID $31 Byte 357	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (170 ms)	-0.2	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 358	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (172 ms)	2.2	G
DID $31 Byte 359	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (172 ms)	-0.2	G
DID $31 Byte 360	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (174 ms)	2.2	G
DID $31 Byte 361	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (174 ms)	-0.2	G
DID $31 Byte 362	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (176 ms)	2.2	G
DID $31 Byte 363	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (176 ms)	-0.2	G
DID $31 Byte 364	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (178 ms)	2.2	G
DID $31 Byte 365	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (178 ms)	-0.2	G
DID $31 Byte 366	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (180 ms)	2.2	G
DID $31 Byte 367	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (180 ms)	-0.2	G
DID $31 Byte 368	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (182 ms)	2.2	G
DID $31 Byte 369	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (182 ms)	-0.2	G
DID $31 Byte 370	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (184 ms)	2.2	G
DID $31 Byte 371	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (184 ms)	-0.2	G
DID $31 Byte 372	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (186 ms)	2.2	G
DID $31 Byte 373	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (186 ms)	-0.2	G
DID $31 Byte 374	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (188 ms)	2.2	G
DID $31 Byte 375	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (188 ms)	-0.2	G
DID $31 Byte 376	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (190 ms)	1.8	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 377	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (190 ms)	-0.2	G
DID $31 Byte 378	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (192 ms)	2.2	G
DID $31 Byte 379	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (192 ms)	0.2	G
DID $31 Byte 380	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (194 ms)	2.6	G
DID $31 Byte 381	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (194 ms)	-0.2	G
DID $31 Byte 382	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (196 ms)	2.6	G
DID $31 Byte 383	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (196 ms)	-0.2	G
DID $31 Byte 384	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (198 ms)	2.2	G
DID $31 Byte 385	$81	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (198 ms)	0.6	G
DID $31 Byte 386	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (200 ms)	2.2	G
DID $31 Byte 387	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (200 ms)	0.2	G
DID $31 Byte 388	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (202 ms)	2.6	G
DID $31 Byte 389	$81	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (202 ms)	0.6	G
DID $31 Byte 390	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (204 ms)	2.2	G
DID $31 Byte 391	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (204 ms)	0.2	G
DID $31 Byte 392	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (206 ms)	2.6	G
DID $31 Byte 393	$82	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (206 ms)	1.0	G
DID $31 Byte 394	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (208 ms)	2.2	G
DID $31 Byte 395	$81	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (208 ms)	0.6	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 396	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (210 ms)	2.2	G
DID $31 Byte 397	$81	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (210 ms)	0.6	G
DID $31 Byte 398	$87	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (212 ms)	3.0	G
DID $31 Byte 399	$81	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (212 ms)	0.6	G
DID $31 Byte 400	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (214 ms)	2.6	G
DID $31 Byte 401	$82	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (214 ms)	1.0	G
DID $31 Byte 402	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (216 ms)	2.2	G
DID $31 Byte 403	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (216 ms)	0.2	G
DID $31 Byte 404	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (218 ms)	2.6	G
DID $31 Byte 405	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (218 ms)	0.2	G
DID $31 Byte 406	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (220 ms)	2.6	G
DID $31 Byte 407	$82	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (220 ms)	1.0	G
DID $31 Byte 408	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (222 ms)	2.6	G
DID $31 Byte 409	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (222 ms)	0.2	G
DID $31 Byte 410	$87	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (224 ms)	3.0	G
DID $31 Byte 411	$81	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (224 ms)	0.6	G
DID $31 Byte 412	$88	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (226 ms)	3.4	G
DID $31 Byte 413	$81	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (226 ms)	0.6	G
DID $31 Byte 414	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (228 ms)	2.6	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 415	$81	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (228 ms)	0.6	G
DID $31 Byte 416	$87	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (230 ms)	3.0	G
DID $31 Byte 417	$81	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (230 ms)	0.6	G
DID $31 Byte 418	$87	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (232 ms)	3.0	G
DID $31 Byte 419	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (232 ms)	0.2	G
DID $31 Byte 420	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (234 ms)	2.6	G
DID $31 Byte 421	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (234 ms)	0.2	G
DID $31 Byte 422	$87	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (236 ms)	3.0	G
DID $31 Byte 423	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (236 ms)	0.2	G
DID $31 Byte 424	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (238 ms)	2.6	G
DID $31 Byte 425	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (238 ms)	0.2	G
DID $31 Byte 426	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (240 ms)	1.8	G
DID $31 Byte 427	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (240 ms)	-0.2	G
DID $31 Byte 428	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (242 ms)	1.8	G
DID $31 Byte 429	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (242 ms)	-0.2	G
DID $31 Byte 430	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (244 ms)	2.2	G
DID $31 Byte 431	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (244 ms)	0.2	G
DID $31 Byte 432	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (246 ms)	2.2	G
DID $31 Byte 433	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (246 ms)	0.2	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 434	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (248 ms)	2.6	G
DID $31 Byte 435	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (248 ms)	0.2	G
DID $31 Byte 436	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (250 ms)	2.2	G
DID $31 Byte 437	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (250 ms)	-0.2	G
DID $31 Byte 438	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (252 ms)	2.2	G
DID $31 Byte 439	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (252 ms)	0.2	G
DID $31 Byte 440	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (254 ms)	1.8	G
DID $31 Byte 441	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (254 ms)	-0.2	G
DID $31 Byte 442	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (256 ms)	1.8	G
DID $31 Byte 443	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (256 ms)	0.2	G
DID $31 Byte 444	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (258 ms)	1.8	G
DID $31 Byte 445	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (258 ms)	-0.2	G
DID $31 Byte 446	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (260 ms)	1.8	G
DID $31 Byte 447	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (260 ms)	-0.2	G
DID $31 Byte 448	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (262 ms)	1.8	G
DID $31 Byte 449	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (262 ms)	-0.2	G
DID $31 Byte 450	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (264 ms)	1.8	G
DID $31 Byte 451	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (264ms)	0.2	G
DID $31 Byte 452	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (266 ms)	1.8	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 453	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (266 ms)	0.2	G
DID $31 Byte 454	$83	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (268 ms)	1.4	G
DID $31 Byte 455	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (268 ms)	-0.2	G
DID $31 Byte 456	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (270 ms)	1.8	G
DID $31 Byte 457	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (270 ms)	-0.2	G
DID $31 Byte 458	$83	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (272 ms)	1.4	G
DID $31 Byte 459	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (272 ms)	-0.2	G
DID $31 Byte 460	$82	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (274 ms)	1.0	G
DID $31 Byte 461	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (274 ms)	-0.2	G
DID $31 Byte 462	$82	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (276 ms)	1.0	G
DID $31 Byte 463	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (276 ms)	-0.2	G
DID $31 Byte 464	$82	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (278 ms)	1.0	G
DID $31 Byte 465	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (278 ms)	-0.2	G
DID $31 Byte 466	$82	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (280 ms)	1.0	G
DID $31 Byte 467	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (280 ms)	-0.2	G
DID $31 Byte 468	$82	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (282 ms)	1.0	G
DID $31 Byte 469	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (282 ms)	-0.2	G
DID $31 Byte 470	$82	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (284 ms)	1.0	G
DID $31 Byte 471	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (284 ms)	-0.2	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 472	$82	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (286 ms)	1.0	G
DID $31 Byte 473	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (286 ms)	-0.2	G
DID $31 Byte 474	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (288 ms)	0.6	G
DID $31 Byte 475	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (288 ms)	-0.2	G
DID $31 Byte 476	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (290 ms)	0.6	G
DID $31 Byte 477	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (290ms)	-0.2	G
DID $31 Byte 478	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (292 ms)	0.6	G
DID $31 Byte 479	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (292 ms)	-0.2	G
DID $31 Byte 480	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (294 ms)	0.6	G
DID $31 Byte 481	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (294 ms)	-0.2	G
DID $31 Byte 482	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (296 ms)	0.2	G
DID $31 Byte 483	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (296 ms)	-0.2	G
DID $31 Byte 484	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (298 ms)	0.2	G
DID $31 Byte 485	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (298 ms)	-0.2	G
DID $31 Byte 486	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (300 ms)	-0.2	G
DID $31 Byte 487	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (300 ms)	-0.2	G
DID $31 Byte 488	$FF	SDM Recorded Vehicle Roll Rate (-700 ms)	Data Not Available	deg/sec
DID $31 Byte 489	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-700 ms)	Data Not Available	G
DID $31 Byte 490	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-700 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 491	$FF	SDM Recorded Vehicle Roll Rate (-690 ms)	Data Not Available	deg/sec
DID $31 Byte 492	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-690 ms)	Data Not Available	G
DID $31 Byte 493	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-690 ms)	Data Not Available	G
DID $31 Byte 494	$FF	SDM Recorded Vehicle Roll Rate (-680 ms)	Data Not Available	deg/sec
DID $31 Byte 495	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-680 ms)	Data Not Available	G
DID $31 Byte 496	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-680 ms)	Data Not Available	G
DID $31 Byte 497	$FF	SDM Recorded Vehicle Roll Rate (-670 ms)	Data Not Available	deg/sec
DID $31 Byte 498	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-670 ms)	Data Not Available	G
DID $31 Byte 499	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-670 ms)	Data Not Available	G
DID $31 Byte 500	$FF	SDM Recorded Vehicle Roll Rate (-660 ms)	Data Not Available	deg/sec
DID $31 Byte 501	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-660 ms)	Data Not Available	G
DID $31 Byte 502	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-660 ms)	Data Not Available	G
DID $31 Byte 503	$FF	SDM Recorded Vehicle Roll Rate (-650 ms)	Data Not Available	deg/sec
DID $31 Byte 504	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-650 ms)	Data Not Available	G
DID $31 Byte 505	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-650 ms)	Data Not Available	G
DID $31 Byte 506	$FF	SDM Recorded Vehicle Roll Rate (-640 ms)	Data Not Available	deg/sec
DID $31 Byte 507	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-640 ms)	Data Not Available	G
DID $31 Byte 508	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-640 ms)	Data Not Available	G
DID $31 Byte 509	$FF	SDM Recorded Vehicle Roll Rate (-630 ms)	Data Not Available	deg/sec

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 510	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-630 ms)	Data Not Available	G
DID $31 Byte 511	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-630 ms)	Data Not Available	G
DID $31 Byte 512	$FF	SDM Recorded Vehicle Roll Rate (-620 ms)	Data Not Available	deg/sec
DID $31 Byte 513	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-620 ms)	Data Not Available	G
DID $31 Byte 514	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-620 ms)	Data Not Available	G
DID $31 Byte 515	$FF	SDM Recorded Vehicle Roll Rate (-610 ms)	Data Not Available	deg/sec
DID $31 Byte 516	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-610 ms)	Data Not Available	G
DID $31 Byte 517	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-610 ms)	Data Not Available	G
DID $31 Byte 518	$FF	SDM Recorded Vehicle Roll Rate (-600 ms)	Data Not Available	deg/sec
DID $31 Byte 519	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-600 ms)	Data Not Available	G
DID $31 Byte 520	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-600 ms)	Data Not Available	G
DID $31 Byte 521	$FF	SDM Recorded Vehicle Roll Rate (-590 ms)	Data Not Available	deg/sec
DID $31 Byte 522	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-590 ms)	Data Not Available	G
DID $31 Byte 523	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-590 ms)	Data Not Available	G
DID $31 Byte 524	$FF	SDM Recorded Vehicle Roll Rate (-580 ms)	Data Not Available	deg/sec
DID $31 Byte 525	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-580 ms)	Data Not Available	G
DID $31 Byte 526	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-580 ms)	Data Not Available	G
DID $31 Byte 527	$FF	SDM Recorded Vehicle Roll Rate (-570 ms)	Data Not Available	deg/sec
DID $31 Byte 528	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-570 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 529	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-570 ms)	Data Not Available	G
DID $31 Byte 530	$FF	SDM Recorded Vehicle Roll Rate (-560 ms)	Data Not Available	deg/sec
DID $31 Byte 531	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-560 ms)	Data Not Available	G
DID $31 Byte 532	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-560 ms)	Data Not Available	G
DID $31 Byte 533	$FF	SDM Recorded Vehicle Roll Rate (-550 ms)	Data Not Available	deg/sec
DID $31 Byte 534	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-550 ms)	Data Not Available	G
DID $31 Byte 535	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-550 ms)	Data Not Available	G
DID $31 Byte 536	$FF	SDM Recorded Vehicle Roll Rate (-540 ms)	Data Not Available	deg/sec
DID $31 Byte 537	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-540 ms)	Data Not Available	G
DID $31 Byte 538	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-540 ms)	Data Not Available	G
DID $31 Byte 539	$FF	SDM Recorded Vehicle Roll Rate (-530 ms)	Data Not Available	deg/sec
DID $31 Byte 540	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-530 ms)	Data Not Available	G
DID $31 Byte 541	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-530 ms)	Data Not Available	G
DID $31 Byte 542	$FF	SDM Recorded Vehicle Roll Rate (-520 ms)	Data Not Available	deg/sec
DID $31 Byte 543	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-520 ms)	Data Not Available	G
DID $31 Byte 544	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-520 ms)	Data Not Available	G
DID $31 Byte 545	$FF	SDM Recorded Vehicle Roll Rate (-510 ms)	Data Not Available	deg/sec
DID $31 Byte 546	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-510 ms)	Data Not Available	G
DID $31 Byte 547	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-510 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 548	$FF	SDM Recorded Vehicle Roll Rate (-500 ms)	Data Not Available	deg/sec
DID $31 Byte 549	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-500 ms)	Data Not Available	G
DID $31 Byte 550	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-500 ms)	Data Not Available	G
DID $31 Byte 551	$FF	SDM Recorded Vehicle Roll Rate (-490 ms)	Data Not Available	deg/sec
DID $31 Byte 552	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-490 ms)	Data Not Available	G
DID $31 Byte 553	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-490 ms)	Data Not Available	G
DID $31 Byte 554	$FF	SDM Recorded Vehicle Roll Rate (-480 ms)	Data Not Available	deg/sec
DID $31 Byte 555	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-480 ms)	Data Not Available	G
DID $31 Byte 556	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-480 ms)	Data Not Available	G
DID $31 Byte 557	$FF	SDM Recorded Vehicle Roll Rate (-470 ms)	Data Not Available	deg/sec
DID $31 Byte 558	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-470 ms)	Data Not Available	G
DID $31 Byte 559	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-470 ms)	Data Not Available	G
DID $31 Byte 560	$FF	SDM Recorded Vehicle Roll Rate (-460 ms)	Data Not Available	deg/sec
DID $31 Byte 561	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-460 ms)	Data Not Available	G
DID $31 Byte 562	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-460 ms)	Data Not Available	G
DID $31 Byte 563	$FF	SDM Recorded Vehicle Roll Rate (-450 ms)	Data Not Available	deg/sec
DID $31 Byte 564	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-450 ms)	Data Not Available	G
DID $31 Byte 565	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-450 ms)	Data Not Available	G
DID $31 Byte 566	$FF	SDM Recorded Vehicle Roll Rate (-440 ms)	Data Not Available	deg/sec

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 567	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-440 ms)	Data Not Available	G
DID $31 Byte 568	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-440 ms)	Data Not Available	G
DID $31 Byte 569	$FF	SDM Recorded Vehicle Roll Rate (-430 ms)	Data Not Available	deg/sec
DID $31 Byte 570	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-430 ms)	Data Not Available	G
DID $31 Byte 571	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-430 ms)	Data Not Available	G
DID $31 Byte 572	$FF	SDM Recorded Vehicle Roll Rate (-420 ms)	Data Not Available	deg/sec
DID $31 Byte 573	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-420 ms)	Data Not Available	G
DID $31 Byte 574	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-420 ms)	Data Not Available	G
DID $31 Byte 575	$FF	SDM Recorded Vehicle Roll Rate (-410 ms)	Data Not Available	deg/sec
DID $31 Byte 576	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-410 ms)	Data Not Available	G
DID $31 Byte 577	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-410 ms)	Data Not Available	G
DID $31 Byte 578	$FF	SDM Recorded Vehicle Roll Rate (-400 ms)	Data Not Available	deg/sec
DID $31 Byte 579	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-400 ms)	Data Not Available	G
DID $31 Byte 580	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-400 ms)	Data Not Available	G
DID $31 Byte 581	$FF	SDM Recorded Vehicle Roll Rate (-390 ms)	Data Not Available	deg/sec
DID $31 Byte 582	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-390 ms)	Data Not Available	G
DID $31 Byte 583	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-390 ms)	Data Not Available	G
DID $31 Byte 584	$FF	SDM Recorded Vehicle Roll Rate (-380 ms)	Data Not Available	deg/sec
DID $31 Byte 585	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-380 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 586	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-380 ms)	Data Not Available	G
DID $31 Byte 587	$FF	SDM Recorded Vehicle Roll Rate (-370 ms)	Data Not Available	deg/sec
DID $31 Byte 588	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-370 ms)	Data Not Available	G
DID $31 Byte 589	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-370 ms)	Data Not Available	G
DID $31 Byte 590	$FF	SDM Recorded Vehicle Roll Rate (-360 ms)	Data Not Available	deg/sec
DID $31 Byte 591	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-360 ms)	Data Not Available	G
DID $31 Byte 592	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-360 ms)	Data Not Available	G
DID $31 Byte 593	$FF	SDM Recorded Vehicle Roll Rate (-350 ms)	Data Not Available	deg/sec
DID $31 Byte 594	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-350 ms)	Data Not Available	G
DID $31 Byte 595	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-350 ms)	Data Not Available	G
DID $31 Byte 596	$FF	SDM Recorded Vehicle Roll Rate (-340 ms)	Data Not Available	deg/sec
DID $31 Byte 597	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-340 ms)	Data Not Available	G
DID $31 Byte 598	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-340 ms)	Data Not Available	G
DID $31 Byte 599	$FF	SDM Recorded Vehicle Roll Rate (-330 ms)	Data Not Available	deg/sec
DID $31 Byte 600	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-330 ms)	Data Not Available	G
DID $31 Byte 601	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-330 ms)	Data Not Available	G
DID $31 Byte 602	$FF	SDM Recorded Vehicle Roll Rate (-320 ms)	Data Not Available	deg/sec
DID $31 Byte 603	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-320 ms)	Data Not Available	G
DID $31 Byte 604	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-320 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 605	$FF	SDM Recorded Vehicle Roll Rate (-310 ms)	Data Not Available	deg/sec
DID $31 Byte 606	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-310 ms)	Data Not Available	G
DID $31 Byte 607	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-310 ms)	Data Not Available	G
DID $31 Byte 608	$FF	SDM Recorded Vehicle Roll Rate (-300 ms)	Data Not Available	deg/sec
DID $31 Byte 609	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-300 ms)	Data Not Available	G
DID $31 Byte 610	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-300 ms)	Data Not Available	G
DID $31 Byte 611	$FF	SDM Recorded Vehicle Roll Rate (-290 ms)	Data Not Available	deg/sec
DID $31 Byte 612	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-290 ms)	Data Not Available	G
DID $31 Byte 613	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-290 ms)	Data Not Available	G
DID $31 Byte 614	$FF	SDM Recorded Vehicle Roll Rate (-280 ms)	Data Not Available	deg/sec
DID $31 Byte 615	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-280 ms)	Data Not Available	G
DID $31 Byte 616	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-280 ms)	Data Not Available	G
DID $31 Byte 617	$FF	SDM Recorded Vehicle Roll Rate (-270 ms)	Data Not Available	deg/sec
DID $31 Byte 618	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-270 ms)	Data Not Available	G
DID $31 Byte 619	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-270 ms)	Data Not Available	G
DID $31 Byte 620	$FF	SDM Recorded Vehicle Roll Rate (-260 ms)	Data Not Available	deg/sec
DID $31 Byte 621	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-260 ms)	Data Not Available	G
DID $31 Byte 622	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-260 ms)	Data Not Available	G
DID $31 Byte 623	$FF	SDM Recorded Vehicle Roll Rate (-250 ms)	Data Not Available	deg/sec

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 624	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-250 ms)	Data Not Available	G
DID $31 Byte 625	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-250 ms)	Data Not Available	G
DID $31 Byte 626	$FF	SDM Recorded Vehicle Roll Rate (-240 ms)	Data Not Available	deg/sec
DID $31 Byte 627	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-240 ms)	Data Not Available	G
DID $31 Byte 628	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-240 ms)	Data Not Available	G
DID $31 Byte 629	$FF	SDM Recorded Vehicle Roll Rate (-230 ms)	Data Not Available	deg/sec
DID $31 Byte 630	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-230 ms)	Data Not Available	G
DID $31 Byte 631	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-230 ms)	Data Not Available	G
DID $31 Byte 632	$FF	SDM Recorded Vehicle Roll Rate (-220 ms)	Data Not Available	deg/sec
DID $31 Byte 633	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-220 ms)	Data Not Available	G
DID $31 Byte 634	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-220 ms)	Data Not Available	G
DID $31 Byte 635	$FF	SDM Recorded Vehicle Roll Rate (-210 ms)	Data Not Available	deg/sec
DID $31 Byte 636	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-210 ms)	Data Not Available	G
DID $31 Byte 637	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-210 ms)	Data Not Available	G
DID $31 Byte 638	$FF	SDM Recorded Vehicle Roll Rate (-200 ms)	Data Not Available	deg/sec
DID $31 Byte 639	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-200 ms)	Data Not Available	G
DID $31 Byte 640	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-200 ms)	Data Not Available	G
DID $31 Byte 641	$FF	SDM Recorded Vehicle Roll Rate (-190 ms)	Data Not Available	deg/sec
DID $31 Byte 642	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-190 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 643	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-190 ms)	Data Not Available	G
DID $31 Byte 644	$FF	SDM Recorded Vehicle Roll Rate (-180 ms)	Data Not Available	deg/sec
DID $31 Byte 645	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-180 ms)	Data Not Available	G
DID $31 Byte 646	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-180 ms)	Data Not Available	G
DID $31 Byte 647	$FF	SDM Recorded Vehicle Roll Rate (-170 ms)	Data Not Available	deg/sec
DID $31 Byte 648	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-170 ms)	Data Not Available	G
DID $31 Byte 649	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-170 ms)	Data Not Available	G
DID $31 Byte 650	$FF	SDM Recorded Vehicle Roll Rate (-160 ms)	Data Not Available	deg/sec
DID $31 Byte 651	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-160 ms)	Data Not Available	G
DID $31 Byte 652	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-160 ms)	Data Not Available	G
DID $31 Byte 653	$FF	SDM Recorded Vehicle Roll Rate (-150 ms)	Data Not Available	deg/sec
DID $31 Byte 654	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-150 ms)	Data Not Available	G
DID $31 Byte 655	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-150 ms)	Data Not Available	G
DID $31 Byte 656	$FF	SDM Recorded Vehicle Roll Rate (-140 ms)	Data Not Available	deg/sec
DID $31 Byte 657	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-140 ms)	Data Not Available	G
DID $31 Byte 658	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-140 ms)	Data Not Available	G
DID $31 Byte 659	$FF	SDM Recorded Vehicle Roll Rate (-130 ms)	Data Not Available	deg/sec
DID $31 Byte 660	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-130 ms)	Data Not Available	G
DID $31 Byte 661	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-130 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 662	$FF	SDM Recorded Vehicle Roll Rate (-120 ms)	Data Not Available	deg/sec
DID $31 Byte 663	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-120 ms)	Data Not Available	G
DID $31 Byte 664	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-120 ms)	Data Not Available	G
DID $31 Byte 665	$FF	SDM Recorded Vehicle Roll Rate (-110 ms)	Data Not Available	deg/sec
DID $31 Byte 666	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-110 ms)	Data Not Available	G
DID $31 Byte 667	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-110 ms)	Data Not Available	G
DID $31 Byte 668	$FF	SDM Recorded Vehicle Roll Rate (-100 ms)	Data Not Available	deg/sec
DID $31 Byte 669	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-100 ms)	Data Not Available	G
DID $31 Byte 670	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-100 ms)	Data Not Available	G
DID $31 Byte 671	$FF	SDM Recorded Vehicle Roll Rate (-90 ms)	Data Not Available	deg/sec
DID $31 Byte 672	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-90 ms)	Data Not Available	G
DID $31 Byte 673	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-90 ms)	Data Not Available	G
DID $31 Byte 674	$FF	SDM Recorded Vehicle Roll Rate (-80 ms)	Data Not Available	deg/sec
DID $31 Byte 675	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-80 ms)	Data Not Available	G
DID $31 Byte 676	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-80 ms)	Data Not Available	G
DID $31 Byte 677	$FF	SDM Recorded Vehicle Roll Rate (-70 ms)	Data Not Available	deg/sec
DID $31 Byte 678	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-70 ms)	Data Not Available	G
DID $31 Byte 679	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-70 ms)	Data Not Available	G
DID $31 Byte 680	$FF	SDM Recorded Vehicle Roll Rate (-60 ms)	Data Not Available	deg/sec

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 681	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-60 ms)	Data Not Available	G
DID $31 Byte 682	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-60 ms)	Data Not Available	G
DID $31 Byte 683	$FF	SDM Recorded Vehicle Roll Rate (-50 ms)	Data Not Available	deg/sec
DID $31 Byte 684	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-50 ms)	Data Not Available	G
DID $31 Byte 685	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-50 ms)	Data Not Available	G
DID $31 Byte 686	$FF	SDM Recorded Vehicle Roll Rate (-40 ms)	Data Not Available	deg/sec
DID $31 Byte 687	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-40 ms)	Data Not Available	G
DID $31 Byte 688	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-40 ms)	Data Not Available	G
DID $31 Byte 689	$FF	SDM Recorded Vehicle Roll Rate (-30 ms)	Data Not Available	deg/sec
DID $31 Byte 690	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-30 ms)	Data Not Available	G
DID $31 Byte 691	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-30 ms)	Data Not Available	G
DID $31 Byte 692	$FF	SDM Recorded Vehicle Roll Rate (-20 ms)	Data Not Available	deg/sec
DID $31 Byte 693	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-20 ms)	Data Not Available	G
DID $31 Byte 694	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-20 ms)	Data Not Available	G
DID $31 Byte 695	$FF	SDM Recorded Vehicle Roll Rate (10 ms)	Data Not Available	deg/sec
DID $31 Byte 696	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (10 ms)	Data Not Available	G
DID $31 Byte 697	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (10 ms)	Data Not Available	G
DID $31 Byte 698	$FF	SDM Recorded Vehicle Roll Rate (0 ms)	Data Not Available	deg/sec
DID $31 Byte 699	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (0 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 700	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (0 ms)	Data Not Available	G
DID $31 Byte 701	$FF	SDM Recorded Vehicle Roll Rate (10 ms)	Data Not Available	deg/sec
DID $31 Byte 702	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (10 ms)	Data Not Available	G
DID $31 Byte 703	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (10 ms)	Data Not Available	G
DID $31 Byte 704	$FF	SDM Recorded Vehicle Roll Rate (20 ms)	Data Not Available	deg/sec
DID $31 Byte 705	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (20 ms)	Data Not Available	G
DID $31 Byte 706	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (20 ms)	Data Not Available	G
DID $31 Byte 707	$FF	SDM Recorded Vehicle Roll Rate (30 ms)	Data Not Available	deg/sec
DID $31 Byte 708	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (30 ms)	Data Not Available	G
DID $31 Byte 709	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (30 ms)	Data Not Available	G
DID $31 Byte 710	$FF	SDM Recorded Vehicle Roll Rate (40 ms)	Data Not Available	deg/sec
DID $31 Byte 711	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (40 ms)	Data Not Available	G
DID $31 Byte 712	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (40 ms)	Data Not Available	G
DID $31 Byte 713	$FF	SDM Recorded Vehicle Roll Rate (50 ms)	Data Not Available	deg/sec
DID $31 Byte 714	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (50 ms)	Data Not Available	G
DID $31 Byte 715	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (50 ms)	Data Not Available	G
DID $31 Byte 716	$FF	SDM Recorded Vehicle Roll Rate (60 ms)	Data Not Available	deg/sec
DID $31 Byte 717	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (60 ms)	Data Not Available	G
DID $31 Byte 718	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (60 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 719	$FF	SDM Recorded Vehicle Roll Rate (70 ms)	Data Not Available	deg/sec
DID $31 Byte 720	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (70 ms)	Data Not Available	G
DID $31 Byte 721	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (70 ms)	Data Not Available	G
DID $31 Byte 722	$FF	SDM Recorded Vehicle Roll Rate (80 ms)	Data Not Available	deg/sec
DID $31 Byte 723	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (80 ms)	Data Not Available	G
DID $31 Byte 724	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (80 ms)	Data Not Available	G
DID $31 Byte 725	$FF	SDM Recorded Vehicle Roll Rate (90 ms)	Data Not Available	deg/sec
DID $31 Byte 726	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (90 ms)	Data Not Available	G
DID $31 Byte 727	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (90 ms)	Data Not Available	G
DID $31 Byte 728	$FF	SDM Recorded Vehicle Roll Rate (100 ms)	Data Not Available	deg/sec
DID $31 Byte 729	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (100 ms)	Data Not Available	G
DID $31 Byte 730	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (100 ms)	Data Not Available	G
DID $31 Byte 731	$FF	SDM Recorded Vehicle Roll Rate (110 ms)	Data Not Available	deg/sec
DID $31 Byte 732	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (110 ms)	Data Not Available	G
DID $31 Byte 733	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (110 ms)	Data Not Available	G
DID $31 Byte 734	$FF	SDM Recorded Vehicle Roll Rate (120 ms)	Data Not Available	deg/sec
DID $31 Byte 735	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (120 ms)	Data Not Available	G
DID $31 Byte 736	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (120 ms)	Data Not Available	G
DID $31 Byte 737	$FF	SDM Recorded Vehicle Roll Rate (130 ms)	Data Not Available	deg/sec

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 738	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (130 ms)	Data Not Available	G
DID $31 Byte 739	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (130 ms)	Data Not Available	G
DID $31 Byte 740	$FF	SDM Recorded Vehicle Roll Rate (140 ms)	Data Not Available	deg/sec
DID $31 Byte 741	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (140 ms)	Data Not Available	G
DID $31 Byte 742	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (140 ms)	Data Not Available	G
DID $31 Byte 743	$FF	SDM Recorded Vehicle Roll Rate (150 ms)	Data Not Available	deg/sec
DID $31 Byte 744	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (150 ms)	Data Not Available	G
DID $31 Byte 745	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (150 ms)	Data Not Available	G
DID $31 Byte 746	$FF	SDM Recorded Vehicle Roll Rate (160 ms)	Data Not Available	deg/sec
DID $31 Byte 747	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (160 ms)	Data Not Available	G
DID $31 Byte 748	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (160 ms)	Data Not Available	G
DID $31 Byte 749	$FF	SDM Recorded Vehicle Roll Rate (170 ms)	Data Not Available	deg/sec
DID $31 Byte 750	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (170 ms)	Data Not Available	G
DID $31 Byte 751	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (170 ms)	Data Not Available	G
DID $31 Byte 752	$FF	SDM Recorded Vehicle Roll Rate (180 ms)	Data Not Available	deg/sec
DID $31 Byte 753	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (180 ms)	Data Not Available	G
DID $31 Byte 754	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (180 ms)	Data Not Available	G
DID $31 Byte 755	$FF	SDM Recorded Vehicle Roll Rate (190 ms)	Data Not Available	deg/sec
DID $31 Byte 756	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (190 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 757	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (190 ms)	Data Not Available	G
DID $31 Byte 758	$FF	SDM Recorded Vehicle Roll Rate (200 ms)	Data Not Available	deg/sec
DID $31 Byte 759	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (200 ms)	Data Not Available	G
DID $31 Byte 760	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (200 ms)	Data Not Available	G
DID $31 Byte 761	$FF	SDM Recorded Vehicle Roll Rate (210 ms)	Data Not Available	deg/sec
DID $31 Byte 762	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (210 ms)	Data Not Available	G
DID $31 Byte 763	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (210 ms)	Data Not Available	G
DID $31 Byte 764	$FF	SDM Recorded Vehicle Roll Rate (220 ms)	Data Not Available	deg/sec
DID $31 Byte 765	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (220 ms)	Data Not Available	G
DID $31 Byte 766	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (220 ms)	Data Not Available	G
DID $31 Byte 767	$FF	SDM Recorded Vehicle Roll Rate (230 ms)	Data Not Available	77
DID $31 Byte 768	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (230 ms)	Data Not Available	G
DID $31 Byte 769	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (230 ms)	Data Not Available	G
DID $31 Byte 770	$FF	SDM Recorded Vehicle Roll Rate (240 ms)	Data Not Available	deg/sec
DID $31 Byte 771	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (240 ms)	Data Not Available	G
DID $31 Byte 772	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (240 ms)	Data Not Available	G
DID $31 Byte 773	$FF	SDM Recorded Vehicle Roll Rate (250 ms)	Data Not Available	deg/sec
DID $31 Byte 774	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (250 ms)	Data Not Available	G
DID $31 Byte 775	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (250 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $31 Byte 776	$FF	SDM Recorded Vehicle Roll Rate (260 ms)	Data Not Available	deg/sec
DID $31 Byte 777	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (260 ms)	Data Not Available	G
DID $31 Byte 778	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (260 ms)	Data Not Available	G
DID $31 Byte 779	$FF	SDM Recorded Vehicle Roll Rate (270 ms)	Data Not Available	deg/sec
DID $31 Byte 780	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (270 ms)	Data Not Available	G
DID $31 Byte 781	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (270 ms)	Data Not Available	G
DID $31 Byte 782	$FF	SDM Recorded Vehicle Roll Rate (280 ms)	Data Not Available	deg/sec
DID $31 Byte 783	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (280 ms)	Data Not Available	G
DID $31 Byte 784	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (280 ms)	Data Not Available	G
DID $31 Byte 785	$FF	SDM Recorded Vehicle Roll Rate (290 ms)	Data Not Available	deg/sec
DID $31 Byte 786	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (290 ms)	Data Not Available	G
DID $31 Byte 787	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (290 ms)	Data Not Available	G

Event Record #2 Data

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 0	$A5	Complete File Recorded (Event Recording Complete)	Yes	
DID $32 Byte 1, bit 7	$FC	Event Record Type	Deployment	
DID $32 Byte 1, bit 6	$FC	Crash Record Locked	Yes	
DID $32 Byte 1, bit 5	$FC	OnStar Deployment Status Data Sent	Yes	
DID $32 Byte 1, bit 4	$FC	OnStar SDM Recorded Vehicle Velocity Change Data Sent	Yes	
DID $32 Byte 1, bit 3	$FC	High Voltage Disable Notification Sent	Yes	
DID $32 Byte 1, bit 2	$FC	Deployment Commanded in Energy Reserve Mode	Yes	
DID $32 Byte 2	$01	Deployment Event Counter	1	counts
DID $32 Bytes 3-4	$0002	Multi-Event, Number of Events (Event Counter)	2	counts
DID $32 Byte 5	$02	OnStar Notification Event Counter	2	counts
DID $32 Byte 6, bit 3	$0F	Algorithm Active: Rear	Yes	
DID $32 Byte 6, bit 2	$0F	Algorithm Active: Rollover	Yes	
DID $32 Byte 6, bit 1	$0F	Algorithm Active: Side	Yes	
DID $32 Byte 6, bit 0	$0F	Algorithm Active: Frontal	Yes	
DID $32 Bytes 7-8	$05B8	Ignition Cycle, Crash (Ignition Cycles at Event)	1464	counts
DID $32 Bytes 9-10	$0017	Time From Event 1 to 2 (Time Between Events)	0.23	seconds
DID $32 Byte 11 bit 0	$00	Concurrent Event Flag Set	No	
DID $32 Byte 14, bit 7	$0E	Event Severity Status: Rollover	No	
DID $32 Byte 14, bit 6	$0E	Event Severity Status: Rear	No	
DID $32 Byte 14, bit 5	$0E	Event Severity Status: Right Side	No	
DID $32 Byte 14, bit 4	$0E	Event Severity Status: Left Side	No	
DID $32 Byte 14, bit 3	$0E	Event Severity Status: Frontal Stage 2	Yes	
DID $32 Byte 14, bit 2	$0E	Event Severity Status: Frontal Stage 1	Yes	
DID $32 Byte 14, bit 1	$0E	Event Severity Status: Frontal Pretensioner	Yes	
DID $32 Byte 15 bit 7	$A3	Driver 1st Stage Deployment Loop Commanded	Yes	
DID $32 Byte 15 bit 6	$A3	Passenger 1st Stage Deployment Loop Commanded	No	
DID $32 Byte 15 bit 5	$A3	Driver 2nd Stage Deployment Loop Commanded	Yes	
DID $32 Byte 15 bit 3	$A3	Passenger 2nd Stage Deployment Loop Commanded	No	
DID $32 Byte 15 bit 1	$A3	Driver Pretensioner Deployment Loop #1 Commanded	Yes	
DID $32 Byte 15 bit 0	$A3	Passenger Pretensioner Deployment Loop #1 Commanded	Yes	
DID $32 Byte 16 bit 7	$C3	Driver Pretensioner Deployment Loop #2 Commanded (If Equipped)	Yes	
DID $32 Byte 16 bit 6	$C3	Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)	Yes	
DID $32 Byte 16 bit 5	$C3	Driver Thorax Loop Commanded (If Equipped)	No	
DID $32 Byte 16 bit 4	$C3	Passenger Thorax Loop Commanded (If Equipped)	No	

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 16 bit 3	$C3	Left Row 2 Thorax Loop Commanded (If Equipped)	No	
DID $32 Byte 16 bit 2	$C3	Right Row 2 Thorax Loop Commanded (If Equipped)	No	
DID $32 Byte 16 bit 1	$C3	Left Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)	Yes	
DID $32 Byte 16 bit 0	$C3	Right Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)	Yes	
DID $32 Byte 17 bit 7	$08	Left Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No	
DID $32 Byte 17 bit 6	$08	Right Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No	
DID $32 Byte 17 bit 5	$08	Left Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No	
DID $32 Byte 17 bit 4	$08	Right Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No	
DID $32 Byte 17 bit 3	$08	Driver Knee Deployment Loop Commanded (If Equipped)	Yes	
DID $32 Byte 17 bit 2	$08	Passenger Knee Deployment Loop Commanded (If Equipped)	No	
DID $32 Byte 17 bit 1	$08	Left Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No	
DID $32 Byte 17 bit 0	$08	Right Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No	
DID $32 Byte 18 bit 7	$00	Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No	
DID $32 Byte 18 bit 6	$00	Battery Cutoff Loop Commanded (If Equipped)	No	
DID $32 Byte 18 bit 5	$00	Driver Roll Bar Loop Commanded (If Equipped)	No	
DID $32 Byte 18 bit 4	$00	Passenger Roll Bar Loop Commanded (If Equipped)	No	
DID $32 Byte 18 bit 3	$00	Steering Column Energy Absorbing Loop Commanded (If Equipped)	No	
DID $32 Byte 18 bit 2	$00	Driver Head Rest Loop Commanded (If Equipped)	No	
DID $32 Byte 18 bit 1	$00	Passenger Head Rest Loop Commanded (If Equipped)	No	
DID $32 Byte 18 bit 0	$00	Left Row 2 Head Rest Loop Commanded (If Equipped)	No	
DID $32 Byte 19 bit 7	$00	Right Row 2 Head Rest Loop Commanded (If Equipped)	No	
DID $32 Byte 19 bit 6	$00	Center Row 2 Head Rest Loop Commanded (If Equipped)	No	
DID $32 Byte 19 bit 5	$00	High Voltage Battery Cutoff Commanded (If Equipped)	No	
DID $32 Byte 19 bit 4	$00	Driver Center Inboard Loop Commanded (If Equipped)	No	
DID $32 Byte 19 bit 3	$00	Driver Seatbelt Load Limiter Loop Commanded (If Equipped)	No	
DID $32 Byte 19 bit 2	$00	Passenger Seatbelt Load Limiter Loop Commanded (If Equipped)	No	
DID $32 Byte 19 bit 1	$00	Driver Active Vent Loop Commanded (If Equipped)	No	
DID $32 Byte 19 bit 0	$00	Passenger Active Vent Loop Commanded (If Equipped)	No	
DID $32 Byte 20 bits 7-6	$4C	Safety Belt Status, Driver (Driver Belt Switch Circuit Status)	Buckled	
DID $32 Byte 20 bits 5-4	$4C	Safety Belt Status, Right Front Passenger (Passenger Belt Switch Circuit Status)	Not Buckled	

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 20 bits 3-2	$4C	Center Front Row Belt Switch Circuit Status (If Equipped)	Data Not Available	
DID $32 Byte 21 bits 7-6	$FC	Left Row 2 Belt Switch Circuit Status (If Equipped)	Data Not Available	
DID $32 Byte 21 bits 5-4	$FC	Center Row 2 Belt Switch Circuit Status (If Equipped)	Data Not Available	
DID $32 Byte 21 bits 3-2	$FC	Right Row 2 Belt Switch Circuit Status (If Equipped)	Data Not Available	
DID $32 Byte 22 bits 7-6	$FC	Left Row 3 Belt Switch Circuit Status (If Equipped)	Data Not Available	
DID $32 Byte 22 bits 5-4	$FC	Center Row 3 Belt Switch Circuit Status (If Equipped)	Data Not Available	
DID $32 Byte 22 bits 3-2	$FC	Right Row 3 Belt Switch Circuit Status (If Equipped)	Data Not Available	
DID $32 Byte 23 bits 7-6	$C0	Seat Track Position Switch, Foremost, Status, Driver (Driver Seat Position Status) (If Equipped)	Data Not Available	
DID $32 Byte 23 bits 5-4	$C0	Seat Track Position Switch, Foremost, Status, Right Front Passenger (Passenger Seat Position Status) (If Equipped)	No (Rearward)	
DID $32 Byte 24 bits 7-5	$00	Passenger Seat Occupancy Status	Empty	
DID $32 Byte 25 bits 7-4	$00	Passenger Classification Status	Not Applicable	
DID $32 Byte 26 bits 7-6	$C0	Passenger SIR Suppression Switch Circuit Status (If Equipped)	Data Not Available	
DID $32 Byte 26 bits 5-4	$C0	Rollover Disable Switch Status (If Equipped)	Suppress	
DID $32 Byte 26 bits 3-2	$C0	Rollover Disable Indication Status (If Equipped)	Off	
DID $32 Byte 27 bits 7-6	$10	Passenger Air Bag ON Indicator Status	Off	
DID $32 Byte 27 bits 5-4	$10	Passenger Air Bag OFF Indicator Status	On	
DID $32 Byte 28	$00	Accelerator Pedal, % Full (Accelerator Pedal Position) (-0.5 sec)	0	%
DID $32 Byte 29	$00	Accelerator Pedal, % Full (Accelerator Pedal Position) (-1.0 sec)	0	%
DID $32 Byte 30	$00	Accelerator Pedal, % Full (Accelerator Pedal Position) (-1.5 sec)	0	%
DID $32 Byte 31	$00	Accelerator Pedal, % Full (Accelerator Pedal Position) (-2.0 sec)	0	%
DID $32 Byte 32	$00	Accelerator Pedal, % Full (Accelerator Pedal Position) (-2.5 sec)	0	%
DID $32 Byte 33	$00	Accelerator Pedal, % Full (Accelerator Pedal Position) (-3.0 sec)	0	%
DID $32 Byte 34	$00	Accelerator Pedal, % Full (Accelerator Pedal Position) (-3.5 sec)	0	%
DID $32 Byte 35	$05	Accelerator Pedal, % Full (Accelerator Pedal Position) (-4.0 sec)	5	%
DID $32 Byte 36	$03	Accelerator Pedal, % Full (Accelerator Pedal Position) (-4.5 sec)	3	%
DID $32 Byte 37	$02	Accelerator Pedal, % Full (Accelerator Pedal Position) (-5.0 sec)	2	%
DID $32 Byte 38 bits 7-6	$05	Service Brake (Brake Switch Circuit State) (-0.5 sec)	Off	
DID $32 Byte 38 bits 5-4	$05	Service Brake (Brake Switch Circuit State) (-1.0 sec)	Off	

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 38 bits 3-2	$05	Service Brake (Brake Switch Circuit State) (-1.5 sec)	On	
DID $32 Byte 38 bits 1-0	$05	Service Brake (Brake Switch Circuit State) (-2.0 sec)	On	
DID $32 Byte 39 bits 7-6	$50	Service Brake (Brake Switch Circuit State) (-2.5 sec)	On	
DID $32 Byte 39 bits 5-4	$50	Service Brake (Brake Switch Circuit State) (-3.0 sec)	On	
DID $32 Byte 39 bits 3-2	$50	Service Brake (Brake Switch Circuit State) (-3.5 sec)	Off	
DID $32 Byte 39 bits 1-0	$50	Service Brake (Brake Switch Circuit State) (-4.0 sec)	Off	
DID $32 Byte 40 bits 7-6	$00	Service Brake (Brake Switch Circuit State) (-4.5 sec)	Off	
DID $32 Byte 40 bits 5-4	$00	Service Brake (Brake Switch Circuit State) (-5.0 sec)	Off	
DID $32 Byte 41 bits 7-6	$00	Cruise Control Resume Switch Active (-0.5 sec)	No	
DID $32 Byte 41 bits 5-4	$00	Cruise Control Resume Switch Active (-1.0 sec)	No	
DID $32 Byte 41 bits 3-2	$00	Cruise Control Resume Switch Active (-1.5 sec)	No	
DID $32 Byte 41 bits 1-0	$00	Cruise Control Resume Switch Active (-2.0 sec)	No	
DID $32 Byte 42 bits 7-6	$00	Cruise Control Active (-0.5 sec)	No	
DID $32 Byte 42 bits 5-4	$00	Cruise Control Active (-1.0 sec)	No	
DID $32 Byte 42 bits 3-2	$00	Cruise Control Active (-1.5 sec)	No	
DID $32 Byte 42 bits 1-0	$00	Cruise Control Active (-2.0 sec)	No	
DID $32 Byte 43 bits 7-6	$00	Cruise Control Set Switch Active (-0.5 sec)	No	
DID $32 Byte 43 bits 5-4	$00	Cruise Control Set Switch Active (-1.0 sec)	No	
DID $32 Byte 43 bits 3-2	$00	Cruise Control Set Switch Active (-1.5 sec)	No	
DID $32 Byte 43 bits 1-0	$00	Cruise Control Set Switch Active (-2.0 sec)	No	
DID $32 Byte 44 bits 7-6	$00	Reduced Engine Power Mode indicator (-0.5 sec)	Off	
DID $32 Byte 44 bits 5-4	$00	Reduced Engine Power Mode indicator (-1.0 sec)	Off	
DID $32 Byte 44 bits 3-2	$00	Reduced Engine Power Mode indicator (-1.5 sec)	Off	
DID $32 Byte 44 bits 1-0	$00	Reduced Engine Power Mode indicator (-2.0 sec)	Off	
DID $32 Byte 45	$0A	Engine RPM (Engine Speed) (-0.5 sec)	640	RPM
DID $32 Byte 46	$0B	Engine RPM (Engine Speed) (-1.0 sec)	704	RPM
DID $32 Byte 47	$0B	Engine RPM (Engine Speed) (-1.5 sec)	704	RPM
DID $32 Byte 48	$0C	Engine RPM (Engine Speed)(-2.0 sec)	768	RPM
DID $32 Byte 49	$0C	Engine RPM (Engine Speed) (-2.5 sec)	768	RPM
DID $32 Byte 50	$0D	Engine RPM (Engine Speed) (-3.0 sec)	832	RPM
DID $32 Byte 51	$0F	Engine RPM (Engine Speed) (-3.5 sec)	960	RPM
DID $32 Byte 52	$0F	Engine RPM (Engine Speed) (-4.0 sec)	960	RPM
DID $32 Byte 53	$0D	Engine RPM (Engine Speed)(-4.5 sec)	832	RPM
DID $32 Byte 54	$0B	Engine RPM (Engine Speed) (-5.0 sec)	704	RPM
DID $32 Bytes 55,56 (12 bits)	$06A8	Engine Torque (-0.5 sec)	3 [4]	Foot-pounds [Newton meters]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Bytes 57,58 (12 bits)	$06AF	Engine Torque (-1.0 sec)	6 [8]	Foot-pounds [Newton meters]
DID $32 Bytes 59,60 (12 bits)	$06A6	Engine Torque (-1.5 sec)	2 [3]	Foot-pounds [Newton meters]
DID $32 Bytes 61,62 (12 bits)	$0698	Engine Torque (-2.0 sec)	-3 [-4]	Foot-pounds [Newton meters]
DID $32 Byte 63	$0B	Engine Throttle, % Full (Throttle Position) (-0.5 sec)	11	% full throttle
DID $32 Byte 64	$0C	Engine Throttle, % Full (Throttle Position) (-1.0 sec)	12	% full throttle
DID $32 Byte 65	$0B	Engine Throttle, % Full (Throttle Position) (-1.5 sec)	11	% full throttle
DID $32 Byte 66	$0B	Engine Throttle, % Full (Throttle Position) (-2.0 sec)	11	% full throttle
DID $32 Byte 67	$0B	Engine Throttle, % Full (Throttle Position)(-2.5 sec)	11	% full throttle
DID $32 Byte 68	$0C	Engine Throttle, % Full (Throttle Position) (-3.0 sec)	12	% full throttle
DID $32 Byte 69	$0B	Engine Throttle, % Full (Throttle Position) (-3.5 sec)	11	% full throttle
DID $32 Byte 70	$16	Engine Throttle, % Full (Throttle Position) (-4.0 sec)	22	% full throttle
DID $32 Byte 71	$12	Engine Throttle, % Full (Throttle Position) (-4.5 sec)	18	% full throttle
DID $32 Byte 72	$0E	Engine Throttle, % Full (Throttle Position)(-5.0 sec)	14	% full throttle
DID $32 Byte 73	$05	Speed, Vehicle Indicated (Vehicle Speed) (-0.5 sec)	3 [5]	MPH [km/h]
DID $32 Byte 74	$05	Speed, Vehicle Indicated (Vehicle Speed) (-1.0 sec)	3 [5]	MPH [km/h]
DID $32 Byte 75	$05	Speed, Vehicle Indicated (Vehicle Speed) (-1.5 sec)	3 [5]	MPH [km/h]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 76	$06	Speed, Vehicle Indicated (Vehicle Speed) (-2.0 sec)	4 [6]	MPH [km/h]
DID $32 Byte 77	$07	Speed, Vehicle Indicated (Vehicle Speed)(-2.5 sec)	4 [7]	MPH [km/h]
DID $32 Byte 78	$07	Speed, Vehicle Indicated (Vehicle Speed) (-3.0 sec)	4 [7]	MPH [km/h]
DID $32 Byte 79	$06	Speed, Vehicle Indicated (Vehicle Speed) (-3.5 sec)	4 [6]	MPH [km/h]
DID $32 Byte 80	$05	Speed, Vehicle Indicated (Vehicle Speed) (-4.0 sec)	3 [5]	MPH [km/h]
DID $32 Byte 81	$04	Speed, Vehicle Indicated (Vehicle Speed) (-4.5 sec)	2 [4]	MPH [km/h]
DID $32 Byte 82	$03	Speed, Vehicle Indicated (Vehicle Speed)(-5.0 sec)	2 [3]	MPH [km/h]
DID $32 Byte 83 bits 7-6	$10	Low Tire Pressure Warning Lamp Status 0.5 Seconds Prior to Time Zero	Off	
DID $32 Byte 83 bits 5-4	$10	Frontal Air Bag Warning Lamp (SIR Warning Lamp Status 0.5 Seconds Prior to Time Zero)	On	
DID $32 Bytes 84-85	$0000	SIR Warning Lamp ON/OFF Time Continuously	0	seconds
DID $32 Bytes 86-87	$0001	Number of Ignition Cycles SIR Warning Lamp was ON/OFF Continuously	1	
DID $32 Byte 88	$FD	Ignition Cycles Since DTCs Were Last Cleared 0.5 Seconds Prior to Time Zero	253	
DID $32 Bytes 89-90	$0000	DTC number	N/A	
DID $32 Byte 91	$00	DTC fault type	N/A	
DID $32 Bytes 92-93	$0000	DTC number	N/A	
DID $32 Byte 94	$00	DTC fault type	N/A	
DID $32 Bytes 95-96	$0000	DTC number	N/A	
DID $32 Byte 97	$00	DTC fault type	N/A	
DID $32 Bytes 98-99	$0000	DTC number	N/A	
DID $32 Byte 100	$00	DTC fault type	N/A	
DID $32 Bytes 101-102	$0000	DTC number	N/A	
DID $32 Byte 103	$00	DTC fault type	N/A	
DID $32 Bytes 104-105	$0000	DTC number	N/A	
DID $32 Byte 106	$00	DTC fault type	N/A	
DID $32 Bytes 107-108	$0000	DTC number	N/A	
DID $32 Byte 109	$00	DTC fault type	N/A	
DID $32 Bytes 110-111	$0000	DTC number	N/A	

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 112	$00	DTC fault type	N/A	
DID $32 Bytes 113-114	$8052	DTC number	B0052	
DID $32 Byte 115	$00	DTC fault type	$00	
DID $32 Byte 116	$64	Maximum Delta-V, Longitudinal (Maximum Longitudinal SDM Recorded Vehicle Velocity Change for FSR Event)	-17 [-27]	MPH [km/h]
DID $32 Byte 117	$38	Time, Maximum Delta-V (Time From FSR Time Zero to Maximum Longitudinal SDM Recorded Vehicle Velocity Change)	112	msec
DID $32 Byte 118	$76	Maximum Delta-V, Lateral (Maximum Lateral SDM Recorded Vehicle Velocity Change for FSR Event)	-6 [-9]	MPH [km/h]
DID $32 Byte 119	$3B	Time Maximum Delta-V, Lateral (Time From FSR Time Zero to Maximum Lateral SDM Recorded Vehicle Velocity Change)	118	msec
DID $32 Byte 120	$1D	Frontal Air Bag Deployment, Time to 1st Stage Deployment, Driver (Driver 1st Stage Time From Time Zero to Deployment Command Criteria Met)	29	msec
DID $32 Byte 121	$2B	Frontal Air Bag Deployment, Time to 2nd Stage, Driver (Driver 2nd Stage Time From Time Zero to Deployment Command Criteria Met)	43	msec
DID $32 Byte 122	$FF	Frontal Air Bag Deployment, Time to 1st Stage Deployment, Right Front Passenger (Passenger 1st Stage Time From Time Zero to Deployment Command Criteria Met)	Data Not Available	msec
DID $32 Byte 123	$FF	Frontal Air Bag Deployment, Time to 2nd Stage, Right Front Passenger (Passenger 2nd Stage Time From Time Zero to Deployment Command Criteria Met)	Data Not Available	msec
DID $32 Byte 124	$53	Side air bag deployment, time to deploy, driver (Driver Thorax/Curtain Time From Time Zero to Deployment Command Criteria Met)	83	msec
DID $32 Byte 125	$53	Side air bag deployment, time to deploy, right front passenger (Passenger Thorax/Curtain Time From Time Zero to Deployment Command Criteria Met)	83	msec
DID $32 Byte 126	$FF	Pretensioner Deployment, Time to Fire, Driver (Driver Pretensioner Time From Time Zero to Deployment Loop #1 or Loop #2 Command Criteria Met)	Data Not Available	msec
DID $32 Byte 127	$FF	Pretensioner Deployment, Time to Fire, Right Front Passenger (Passenger Pretensioner Time From Time Zero to Deployment Loop #1 or Loop #2 Command Criteria Met)	Data Not Available	msec
DID $32 Byte 128	$7E	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (10 ms)	-0.6 [-1]	MPH [km/h]
DID $32 Byte 129	$7F	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (10 ms)	0 [0]	MPH [km/h]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 130	$7E	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (20 ms)	-0.6 [-1]	MPH [km/h]
DID $32 Byte 131	$7F	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (20 ms)	0 [0]	MPH [km/h]
DID $32 Byte 132	$7C	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (30 ms)	-1.9 [-3]	MPH [km/h]
DID $32 Byte 133	$7E	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (30 ms)	-0.6 [-1]	MPH [km/h]
DID $32 Byte 134	$7B	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (40 ms)	-2.5 [-4]	MPH [km/h]
DID $32 Byte 135	$7D	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (40 ms)	-1.2 [-2]	MPH [km/h]
DID $32 Byte 136	$76	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (50 ms)	-5.6 [-9]	MPH [km/h]
DID $32 Byte 137	$7C	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (50 ms)	-1.9 [-3]	MPH [km/h]
DID $32 Byte 138	$71	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (60 ms)	-8.7 [-14]	MPH [km/h]
DID $32 Byte 139	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (60 ms)	-3.1 [-5]	MPH [km/h]
DID $32 Byte 140	$6E	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (70 ms)	-10.6 [-17]	MPH [km/h]
DID $32 Byte 141	$78	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (70 ms)	-4.3 [-7]	MPH [km/h]
DID $32 Byte 142	$6A	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (80 ms)	-13 [-21]	MPH [km/h]
DID $32 Byte 143	$77	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (80 ms)	-5 [-8]	MPH [km/h]
DID $32 Byte 144	$67	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (90 ms)	-14.9 [-24]	MPH [km/h]
DID $32 Byte 145	$76	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (90 ms)	-5.6 [-9]	MPH [km/h]
DID $32 Byte 146	$66	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (100 ms)	-15.5 [-25]	MPH [km/h]
DID $32 Byte 147	$76	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (100 ms)	-5.6 [-9]	MPH [km/h]
DID $32 Byte 148	$65	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (110 ms)	-16.2 [-26]	MPH [km/h]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 149	$77	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (110 ms)	-5 [-8]	MPH [km/h]
DID $32 Byte 150	$65	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (120 ms)	-16.2 [-26]	MPH [km/h]
DID $32 Byte 151	$77	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (120 ms)	-5 [-8]	MPH [km/h]
DID $32 Byte 152	$65	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (130 ms)	-16.2 [-26]	MPH [km/h]
DID $32 Byte 153	$78	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (130 ms)	-4.3 [-7]	MPH [km/h]
DID $32 Byte 154	$67	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (140 ms)	-14.9 [-24]	MPH [km/h]
DID $32 Byte 155	$79	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (140 ms)	-3.7 [-6]	MPH [km/h]
DID $32 Byte 156	$68	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (150 ms)	-14.3 [-23]	MPH [km/h]
DID $32 Byte 157	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (150 ms)	-3.1 [-5]	MPH [km/h]
DID $32 Byte 158	$69	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (160 ms)	-13.7 [-22]	MPH [km/h]
DID $32 Byte 159	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (160 ms)	-3.1 [-5]	MPH [km/h]
DID $32 Byte 160	$69	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (170 ms)	-13.7 [-22]	MPH [km/h]
DID $32 Byte 161	$7B	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (170 ms)	-2.5 [-4]	MPH [km/h]
DID $32 Byte 162	$6A	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (180 ms)	-13 [-21]	MPH [km/h]
DID $32 Byte 163	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (180 ms)	-3.1 [-5]	MPH [km/h]
DID $32 Byte 164	$6A	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (190 ms)	-13 [-21]	MPH [km/h]
DID $32 Byte 165	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (190 ms)	-3.1 [-5]	MPH [km/h]
DID $32 Byte 166	$6A	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (200 ms)	-13 [-21]	MPH [km/h]
DID $32 Byte 167	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (200 ms)	-3.1 [-5]	MPH [km/h]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 168	$6A	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (210 ms)	-13 [-21]	MPH [km/h]
DID $32 Byte 169	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (210 ms)	-3.1 [-5]	MPH [km/h]
DID $32 Byte 170	$6A	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (220 ms)	-13 [-21]	MPH [km/h]
DID $32 Byte 171	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (220 ms)	-3.1 [-5]	MPH [km/h]
DID $32 Byte 172	$6A	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (230 ms)	-13 [-21]	MPH [km/h]
DID $32 Byte 173	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (230 ms)	-3.1 [-5]	MPH [km/h]
DID $32 Byte 174	$6A	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (240 ms)	-13 [-21]	MPH [km/h]
DID $32 Byte 175	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (240 ms)	-3.1 [-5]	MPH [km/h]
DID $32 Byte 176	$6A	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (250 ms)	-13 [-21]	MPH [km/h]
DID $32 Byte 177	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (250 ms)	-3.1 [-5]	MPH [km/h]
DID $32 Byte 178	$6A	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (260 ms)	-13 [-21]	MPH [km/h]
DID $32 Byte 179	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (260 ms)	-3.1 [-5]	MPH [km/h]
DID $32 Byte 180	$6A	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (270 ms)	-13 [-21]	MPH [km/h]
DID $32 Byte 181	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (270 ms)	-3.1 [-5]	MPH [km/h]
DID $32 Byte 182	$6A	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (280 ms)	-13 [-21]	MPH [km/h]
DID $32 Byte 183	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (280 ms)	-3.1 [-5]	MPH [km/h]
DID $32 Byte 184	$6A	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (290 ms)	-13 [-21]	MPH [km/h]
DID $32 Byte 185	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (290 ms)	-3.1 [-5]	MPH [km/h]
DID $32 Byte 186	$6A	Delta-V, Longitudinal (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (300 ms)	-13 [-21]	MPH [km/h]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 187	$7A	Delta-V, Lateral (SDM Recorded Vehicle Longitudinal Velocity Change for FSR Event) (300 ms)	-3.1 [-5]	MPH [km/h]
DID $32 Byte 188	$76	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (2 ms)	-3.8	G
DID $32 Byte 189	$82	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (2 ms)	1.0	G
DID $32 Byte 190	$77	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (4 ms)	-3.4	G
DID $32 Byte 191	$7B	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (4 ms)	-1.8	G
DID $32 Byte 192	$76	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (6 ms)	-3.8	G
DID $32 Byte 193	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (6 ms)	-1.0	G
DID $32 Byte 194	$76	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (8 ms)	-3.8	G
DID $32 Byte 195	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (8 ms)	-0.2	G
DID $32 Byte 196	$62	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (10 ms)	-11.8	G
DID $32 Byte 197	$77	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (10 ms)	-3.4	G
DID $32 Byte 198	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (12 ms)	-0.2	G
DID $32 Byte 199	$88	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (12 ms)	3.4	G
DID $32 Byte 200	$7E	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (14 ms)	-0.6	G
DID $32 Byte 201	$79	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (14 ms)	-2.6	G
DID $32 Byte 202	$7C	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (16 ms)	-1.4	G
DID $32 Byte 203	$89	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (16 ms)	3.8	G
DID $32 Byte 204	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (18 ms)	1.8	G
DID $32 Byte 205	$6B	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (18 ms)	-8.2	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 206	$7E	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (20 ms)	-0.6	G
DID $32 Byte 207	$72	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (20 ms)	-5.4	G
DID $32 Byte 208	$78	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (22 ms)	-3.0	G
DID $32 Byte 209	$8E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (22 ms)	5.8	G
DID $32 Byte 210	$74	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (24 ms)	-4.6	G
DID $32 Byte 211	$74	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (24 ms)	-4.6	G
DID $32 Byte 212	$79	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (26 ms)	-2.6	G
DID $32 Byte 213	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (26 ms)	-1.0	G
DID $32 Byte 214	$6E	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (28 ms)	-7.0	G
DID $32 Byte 215	$74	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (28 ms)	-4.6	G
DID $32 Byte 216	$79	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (30 ms)	-2.6	G
DID $32 Byte 217	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (30 ms)	-1.0	G
DID $32 Byte 218	$7B	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (32 ms)	-1.8	G
DID $32 Byte 219	$78	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (32 ms)	-3.0	G
DID $32 Byte 220	$7C	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (34 ms)	-1.4	G
DID $32 Byte 221	$78	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (34 ms)	-3.0	G
DID $32 Byte 222	$76	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (36 ms)	-3.8	G
DID $32 Byte 223	$70	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (36 ms)	-6.2	G
DID $32 Byte 224	$6E	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (38 ms)	-7.0	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 225	$7C	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (38 ms)	-1.4	G
DID $32 Byte 226	$6D	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (40 ms)	-7.4	G
DID $32 Byte 227	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (40 ms)	-1.0	G
DID $32 Byte 228	$63	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (42 ms)	-11.4	G
DID $32 Byte 229	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (42 ms)	-0.2	G
DID $32 Byte 230	$54	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (44 ms)	-17.4	G
DID $32 Byte 231	$79	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (44 ms)	-2.6	G
DID $32 Byte 232	$74	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (46 ms)	-4.6	G
DID $32 Byte 233	$87	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (46 ms)	3.0	G
DID $32 Byte 234	$60	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (48 ms)	-12.6	G
DID $32 Byte 235	$64	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (48 ms)	-11.0	G
DID $32 Byte 236	$4D	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (50 ms)	-20.2	G
DID $32 Byte 237	$67	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (50 ms)	-9.8	G
DID $32 Byte 238	$59	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (52 ms)	-15.4	G
DID $32 Byte 239	$72	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (52 ms)	-5.4	G
DID $32 Byte 240	$67	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (54 ms)	-9.8	G
DID $32 Byte 241	$67	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (54 ms)	-9.8	G
DID $32 Byte 242	$5B	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (56 ms)	-14.6	G
DID $32 Byte 243	$67	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (56 ms)	-9.8	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 244	$50	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (58 ms)	-19.0	G
DID $32 Byte 245	$72	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (58 ms)	-5.4	G
DID $32 Byte 246	$68	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (60 ms)	-9.4	G
DID $32 Byte 247	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (60 ms)	0.2	G
DID $32 Byte 248	$64	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (62 ms)	-11.0	G
DID $32 Byte 249	$76	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (62 ms)	-3.8	G
DID $32 Byte 250	$6F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (64 ms)	-6.6	G
DID $32 Byte 251	$75	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (64 ms)	-4.2	G
DID $32 Byte 252	$64	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (66 ms)	-11.0	G
DID $32 Byte 253	$9B	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (66 ms)	11.0	G
DID $32 Byte 254	$6A	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (68 ms)	-8.6	G
DID $32 Byte 255	$5B	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (68 ms)	-14.6	G
DID $32 Byte 256	$74	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (70 ms)	-4.6	G
DID $32 Byte 257	$70	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (70 ms)	-6.2	G
DID $32 Byte 258	$6B	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (72 ms)	-8.2	G
DID $32 Byte 259	$67	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (72 ms)	-9.8	G
DID $32 Byte 260	$67	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (74 ms)	-9.8	G
DID $32 Byte 261	$A1	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (74 ms)	13.4	G
DID $32 Byte 262	$60	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (76 ms)	-12.6	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 263	$6A	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (76 ms)	-8.6	G
DID $32 Byte 264	$61	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (78 ms)	-12.2	G
DID $32 Byte 265	$6A	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (78 ms)	-8.6	G
DID $32 Byte 266	$62	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (80 ms)	-11.8	G
DID $32 Byte 267	$7C	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (80 ms)	-1.4	G
DID $32 Byte 268	$62	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (82 ms)	-11.8	G
DID $32 Byte 269	$6D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (82 ms)	-7.4	G
DID $32 Byte 270	$6B	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (84 ms)	-8.2	G
DID $32 Byte 271	$8F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (84 ms)	6.2	G
DID $32 Byte 272	$6E	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (86 ms)	-7.0	G
DID $32 Byte 273	$6C	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (86 ms)	-7.8	G
DID $32 Byte 274	$6F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (88 ms)	-6.6	G
DID $32 Byte 275	$85	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (88 ms)	2.2	G
DID $32 Byte 276	$6F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (90 ms)	-6.6	G
DID $32 Byte 277	$70	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (90 ms)	-6.2	G
DID $32 Byte 278	$6E	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (92 ms)	-7.0	G
DID $32 Byte 279	$88	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (92 ms)	3.4	G
DID $32 Byte 280	$75	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (94 ms)	-4.2	G
DID $32 Byte 281	$7C	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (94 ms)	-1.4	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 282	$74	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (96 ms)	-4.6	G
DID $32 Byte 283	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (96 ms)	-0.6	G
DID $32 Byte 284	$72	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (98 ms)	-5.4	G
DID $32 Byte 285	$7A	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (98 ms)	-2.2	G
DID $32 Byte 286	$77	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (100 ms)	-3.4	G
DID $32 Byte 287	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (100 ms)	-0.6	G
DID $32 Byte 288	$78	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (102 ms)	-3.0	G
DID $32 Byte 289	$8F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (102 ms)	6.2	G
DID $32 Byte 290	$74	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (104 ms)	-4.6	G
DID $32 Byte 291	$79	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (104 ms)	-2.6	G
DID $32 Byte 292	$7C	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (106 ms)	-1.4	G
DID $32 Byte 293	$85	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (106 ms)	2.2	G
DID $32 Byte 294	$79	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (108 ms)	-2.6	G
DID $32 Byte 295	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (108 ms)	-0.2	G
DID $32 Byte 296	$7C	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (110 ms)	-1.4	G
DID $32 Byte 297	$78	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (110 ms)	-3.0	G
DID $32 Byte 298	$7C	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (112 ms)	-1.4	G
DID $32 Byte 299	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (112 ms)	-1.0	G
DID $32 Byte 300	$7E	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (114 ms)	-0.6	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 301	$89	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (114 ms)	3.8	G
DID $32 Byte 302	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (116 ms)	-0.2	G
DID $32 Byte 303	$73	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (116 ms)	-5.0	G
DID $32 Byte 304	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (118 ms)	0.2	G
DID $32 Byte 305	$79	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (118 ms)	-2.6	G
DID $32 Byte 306	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (120 ms)	1.8	G
DID $32 Byte 307	$84	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (120 ms)	1.8	G
DID $32 Byte 308	$82	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (122 ms)	1.0	G
DID $32 Byte 309	$8D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (122 ms)	5.4	G
DID $32 Byte 310	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (124 ms)	2.2	G
DID $32 Byte 311	$88	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (124 ms)	3.4	G
DID $32 Byte 312	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (126 ms)	0.2	G
DID $32 Byte 313	$89	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (126 ms)	3.8	G
DID $32 Byte 314	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (128 ms)	1.8	G
DID $32 Byte 315	$8D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (128 ms)	5.4	G
DID $32 Byte 316	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (130 ms)	1.8	G
DID $32 Byte 317	$89	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (130 ms)	3.8	G
DID $32 Byte 318	$88	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (132 ms)	3.4	G
DID $32 Byte 319	$86	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (132 ms)	2.6	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 320	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (134 ms)	1.8	G
DID $32 Byte 321	$86	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (134 ms)	2.6	G
DID $32 Byte 322	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (136 ms)	2.6	G
DID $32 Byte 323	$87	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (136 ms)	3.0	G
DID $32 Byte 324	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (138 ms)	2.6	G
DID $32 Byte 325	$86	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (138 ms)	2.6	G
DID $32 Byte 326	$87	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (140 ms)	3.0	G
DID $32 Byte 327	$83	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (140 ms)	1.4	G
DID $32 Byte 328	$87	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (142 ms)	3.0	G
DID $32 Byte 329	$82	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (142 ms)	1.0	G
DID $32 Byte 330	$88	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (144 ms)	3.4	G
DID $32 Byte 331	$86	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (144 ms)	2.6	G
DID $32 Byte 332	$88	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (146 ms)	3.4	G
DID $32 Byte 333	$86	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (146 ms)	2.6	G
DID $32 Byte 334	$87	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (148 ms)	3.0	G
DID $32 Byte 335	$81	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (148 ms)	0.6	G
DID $32 Byte 336	$87	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (150 ms)	3.0	G
DID $32 Byte 337	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (150 ms)	-0.2	G
DID $32 Byte 338	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (152 ms)	1.8	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 339	$85	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (152 ms)	2.2	G
DID $32 Byte 340	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (154 ms)	1.8	G
DID $32 Byte 341	$86	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (154 ms)	2.6	G
DID $32 Byte 342	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (156 ms)	2.6	G
DID $32 Byte 343	$80	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (156 ms)	0.2	G
DID $32 Byte 344	$86	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (158 ms)	2.6	G
DID $32 Byte 345	$7C	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (158 ms)	-1.4	G
DID $32 Byte 346	$84	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (160 ms)	1.8	G
DID $32 Byte 347	$83	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (160 ms)	1.4	G
DID $32 Byte 348	$82	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (162 ms)	1.0	G
DID $32 Byte 349	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (162 ms)	-0.2	G
DID $32 Byte 350	$85	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (164 ms)	2.2	G
DID $32 Byte 351	$81	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (164 ms)	0.6	G
DID $32 Byte 352	$82	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (166 ms)	1.0	G
DID $32 Byte 353	$81	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (166 ms)	0.6	G
DID $32 Byte 354	$82	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (168 ms)	1.0	G
DID $32 Byte 355	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (168 ms)	-0.2	G
DID $32 Byte 356	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (170 ms)	0.6	G
DID $32 Byte 357	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (170 ms)	-0.2	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 358	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (172 ms)	0.6	G
DID $32 Byte 359	$81	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (172 ms)	0.6	G
DID $32 Byte 360	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (174 ms)	-0.2	G
DID $32 Byte 361	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (174 ms)	-0.2	G
DID $32 Byte 362	$82	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (176 ms)	1.0	G
DID $32 Byte 363	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (176 ms)	-0.2	G
DID $32 Byte 364	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (178 ms)	0.2	G
DID $32 Byte 365	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (178 ms)	-0.6	G
DID $32 Byte 366	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (180 ms)	0.2	G
DID $32 Byte 367	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (180 ms)	-0.6	G
DID $32 Byte 368	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (182 ms)	0.2	G
DID $32 Byte 369	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (182 ms)	-0.6	G
DID $32 Byte 370	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (184 ms)	0.2	G
DID $32 Byte 371	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (184 ms)	-0.2	G
DID $32 Byte 372	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (186 ms)	-0.2	G
DID $32 Byte 373	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (186 ms)	-0.2	G
DID $32 Byte 374	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (188 ms)	0.6	G
DID $32 Byte 375	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (188 ms)	-0.2	G
DID $32 Byte 376	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (190 ms)	-0.2	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 377	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (190 ms)	-0.6	G
DID $32 Byte 378	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (192 ms)	0.2	G
DID $32 Byte 379	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (192 ms)	-1.0	G
DID $32 Byte 380	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (194 ms)	0.6	G
DID $32 Byte 381	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (194 ms)	-0.6	G
DID $32 Byte 382	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (196 ms)	0.6	G
DID $32 Byte 383	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (196 ms)	-0.2	G
DID $32 Byte 384	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (198 ms)	0.2	G
DID $32 Byte 385	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (198 ms)	-1.0	G
DID $32 Byte 386	$81	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (200 ms)	0.6	G
DID $32 Byte 387	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (200 ms)	-1.0	G
DID $32 Byte 388	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (202 ms)	-0.2	G
DID $32 Byte 389	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (202 ms)	-0.2	G
DID $32 Byte 390	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (204 ms)	-0.2	G
DID $32 Byte 391	$7D	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (204 ms)	-1.0	G
DID $32 Byte 392	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (206 ms)	-0.2	G
DID $32 Byte 393	$7C	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (206 ms)	-1.4	G
DID $32 Byte 394	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (208 ms)	-0.2	G
DID $32 Byte 395	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (208 ms)	-0.2	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 396	$80	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (210 ms)	0.2	G
DID $32 Byte 397	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (210 ms)	-0.2	G
DID $32 Byte 398	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (212 ms)	-0.2	G
DID $32 Byte 399	$7E	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (212 ms)	-0.6	G
DID $32 Byte 400	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (214 ms)	-0.2	G
DID $32 Byte 401	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (214 ms)	-0.2	G
DID $32 Byte 402	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (216 ms)	-0.2	G
DID $32 Byte 403	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (216 ms)	-0.2	G
DID $32 Byte 404	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (218 ms)	-0.2	G
DID $32 Byte 405	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (218 ms)	-0.2	G
DID $32 Byte 406	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (220 ms)	-0.2	G
DID $32 Byte 407	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (220 ms)	-0.2	G
DID $32 Byte 408	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (222 ms)	-0.2	G
DID $32 Byte 409	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (222 ms)	-0.2	G
DID $32 Byte 410	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (224 ms)	-0.2	G
DID $32 Byte 411	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (224 ms)	-0.2	G
DID $32 Byte 412	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (226 ms)	-0.2	G
DID $32 Byte 413	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (226 ms)	-0.2	G
DID $32 Byte 414	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (228 ms)	-0.2	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 415	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (228 ms)	-0.2	G
DID $32 Byte 416	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (230 ms)	-0.2	G
DID $32 Byte 417	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (230 ms)	-0.2	G
DID $32 Byte 418	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (232 ms)	-0.2	G
DID $32 Byte 419	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (232 ms)	-0.2	G
DID $32 Byte 420	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (234 ms)	-0.2	G
DID $32 Byte 421	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (234 ms)	-0.2	G
DID $32 Byte 422	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (236 ms)	-0.2	G
DID $32 Byte 423	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (236 ms)	-0.2	G
DID $32 Byte 424	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (238 ms)	-0.2	G
DID $32 Byte 425	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (238 ms)	-0.2	G
DID $32 Byte 426	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (240 ms)	-0.2	G
DID $32 Byte 427	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (240 ms)	-0.2	G
DID $32 Byte 428	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (242 ms)	-0.2	G
DID $32 Byte 429	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (242 ms)	-0.2	G
DID $32 Byte 430	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (244 ms)	-0.2	G
DID $32 Byte 431	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (244 ms)	-0.2	G
DID $32 Byte 432	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (246 ms)	-0.2	G
DID $32 Byte 433	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (246 ms)	-0.2	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 434	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (248 ms)	-0.2	G
DID $32 Byte 435	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (248 ms)	-0.2	G
DID $32 Byte 436	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (250 ms)	-0.2	G
DID $32 Byte 437	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (250 ms)	-0.2	G
DID $32 Byte 438	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (252 ms)	-0.2	G
DID $32 Byte 439	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (252 ms)	-0.2	G
DID $32 Byte 440	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (254 ms)	-0.2	G
DID $32 Byte 441	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (254 ms)	-0.2	G
DID $32 Byte 442	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (256 ms)	-0.2	G
DID $32 Byte 443	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (256 ms)	-0.2	G
DID $32 Byte 444	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (258 ms)	-0.2	G
DID $32 Byte 445	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (258 ms)	-0.2	G
DID $32 Byte 446	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (260 ms)	-0.2	G
DID $32 Byte 447	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (260 ms)	-0.2	G
DID $32 Byte 448	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (262 ms)	-0.2	G
DID $32 Byte 449	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (262 ms)	-0.2	G
DID $32 Byte 450	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (264 ms)	-0.2	G
DID $32 Byte 451	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (264ms)	-0.2	G
DID $32 Byte 452	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (266 ms)	-0.2	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 453	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (266 ms)	-0.2	G
DID $32 Byte 454	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (268 ms)	-0.2	G
DID $32 Byte 455	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (268 ms)	-0.2	G
DID $32 Byte 456	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (270 ms)	-0.2	G
DID $32 Byte 457	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (270 ms)	-0.2	G
DID $32 Byte 458	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (272 ms)	-0.2	G
DID $32 Byte 459	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (272 ms)	-0.2	G
DID $32 Byte 460	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (274 ms)	-0.2	G
DID $32 Byte 461	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (274 ms)	-0.2	G
DID $32 Byte 462	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (276 ms)	-0.2	G
DID $32 Byte 463	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (276 ms)	-0.2	G
DID $32 Byte 464	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (278 ms)	-0.2	G
DID $32 Byte 465	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (278 ms)	-0.2	G
DID $32 Byte 466	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (280 ms)	-0.2	G
DID $32 Byte 467	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (280 ms)	-0.2	G
DID $32 Byte 468	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (282 ms)	-0.2	G
DID $32 Byte 469	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (282 ms)	-0.2	G
DID $32 Byte 470	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (284 ms)	-0.2	G
DID $32 Byte 471	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (284 ms)	-0.2	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 472	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (286 ms)	-0.2	G
DID $32 Byte 473	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (286 ms)	-0.2	G
DID $32 Byte 474	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (288 ms)	-0.2	G
DID $32 Byte 475	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (288 ms)	-0.2	G
DID $32 Byte 476	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (290 ms)	-0.2	G
DID $32 Byte 477	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (290ms)	-0.2	G
DID $32 Byte 478	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (292 ms)	-0.2	G
DID $32 Byte 479	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (292 ms)	-0.2	G
DID $32 Byte 480	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (294 ms)	-0.2	G
DID $32 Byte 481	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (294 ms)	-0.2	G
DID $32 Byte 482	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (296 ms)	-0.2	G
DID $32 Byte 483	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (296 ms)	-0.2	G
DID $32 Byte 484	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (298 ms)	-0.2	G
DID $32 Byte 485	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (298 ms)	-0.2	G
DID $32 Byte 486	$7F	Longitudinal Acceleration (SDM Recorded Vehicle Longitudinal Acceleration for FSR Event) (300 ms)	-0.2	G
DID $32 Byte 487	$7F	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for FSR Event) (300 ms)	-0.2	G
DID $32 Byte 488	$FF	SDM Recorded Vehicle Roll Rate (-700 ms)	Data Not Available	deg/sec
DID $32 Byte 489	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-700 ms)	Data Not Available	G
DID $32 Byte 490	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-700 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 491	$FF	SDM Recorded Vehicle Roll Rate (-690 ms)	Data Not Available	deg/sec
DID $32 Byte 492	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-690 ms)	Data Not Available	G
DID $32 Byte 493	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-690 ms)	Data Not Available	G
DID $32 Byte 494	$FF	SDM Recorded Vehicle Roll Rate (-680 ms)	Data Not Available	deg/sec
DID $32 Byte 495	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-680 ms)	Data Not Available	G
DID $32 Byte 496	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-680 ms)	Data Not Available	G
DID $32 Byte 497	$FF	SDM Recorded Vehicle Roll Rate (-670 ms)	Data Not Available	deg/sec
DID $32 Byte 498	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-670 ms)	Data Not Available	G
DID $32 Byte 499	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-670 ms)	Data Not Available	G
DID $32 Byte 500	$FF	SDM Recorded Vehicle Roll Rate (-660 ms)	Data Not Available	deg/sec
DID $32 Byte 501	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-660 ms)	Data Not Available	G
DID $32 Byte 502	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-660 ms)	Data Not Available	G
DID $32 Byte 503	$FF	SDM Recorded Vehicle Roll Rate (-650 ms)	Data Not Available	deg/sec
DID $32 Byte 504	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-650 ms)	Data Not Available	G
DID $32 Byte 505	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-650 ms)	Data Not Available	G
DID $32 Byte 506	$FF	SDM Recorded Vehicle Roll Rate (-640 ms)	Data Not Available	deg/sec
DID $32 Byte 507	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-640 ms)	Data Not Available	G
DID $32 Byte 508	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-640 ms)	Data Not Available	G
DID $32 Byte 509	$FF	SDM Recorded Vehicle Roll Rate (-630 ms)	Data Not Available	deg/sec

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 510	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-630 ms)	Data Not Available	G
DID $32 Byte 511	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-630 ms)	Data Not Available	G
DID $32 Byte 512	$FF	SDM Recorded Vehicle Roll Rate (-620 ms)	Data Not Available	deg/sec
DID $32 Byte 513	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-620 ms)	Data Not Available	G
DID $32 Byte 514	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-620 ms)	Data Not Available	G
DID $32 Byte 515	$FF	SDM Recorded Vehicle Roll Rate (-610 ms)	Data Not Available	deg/sec
DID $32 Byte 516	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-610 ms)	Data Not Available	G
DID $32 Byte 517	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-610 ms)	Data Not Available	G
DID $32 Byte 518	$FF	SDM Recorded Vehicle Roll Rate (-600 ms)	Data Not Available	deg/sec
DID $32 Byte 519	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-600 ms)	Data Not Available	G
DID $32 Byte 520	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-600 ms)	Data Not Available	G
DID $32 Byte 521	$FF	SDM Recorded Vehicle Roll Rate (-590 ms)	Data Not Available	deg/sec
DID $32 Byte 522	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-590 ms)	Data Not Available	G
DID $32 Byte 523	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-590 ms)	Data Not Available	G
DID $32 Byte 524	$FF	SDM Recorded Vehicle Roll Rate (-580 ms)	Data Not Available	deg/sec
DID $32 Byte 525	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-580 ms)	Data Not Available	G
DID $32 Byte 526	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-580 ms)	Data Not Available	G
DID $32 Byte 527	$FF	SDM Recorded Vehicle Roll Rate (-570 ms)	Data Not Available	deg/sec
DID $32 Byte 528	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-570 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 529	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-570 ms)	Data Not Available	G
DID $32 Byte 530	$FF	SDM Recorded Vehicle Roll Rate (-560 ms)	Data Not Available	deg/sec
DID $32 Byte 531	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-560 ms)	Data Not Available	G
DID $32 Byte 532	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-560 ms)	Data Not Available	G
DID $32 Byte 533	$FF	SDM Recorded Vehicle Roll Rate (-550 ms)	Data Not Available	deg/sec
DID $32 Byte 534	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-550 ms)	Data Not Available	G
DID $32 Byte 535	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-550 ms)	Data Not Available	G
DID $32 Byte 536	$FF	SDM Recorded Vehicle Roll Rate (-540 ms)	Data Not Available	deg/sec
DID $32 Byte 537	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-540 ms)	Data Not Available	G
DID $32 Byte 538	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-540 ms)	Data Not Available	G
DID $32 Byte 539	$FF	SDM Recorded Vehicle Roll Rate (-530 ms)	Data Not Available	deg/sec
DID $32 Byte 540	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-530 ms)	Data Not Available	G
DID $32 Byte 541	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-530 ms)	Data Not Available	G
DID $32 Byte 542	$FF	SDM Recorded Vehicle Roll Rate (-520 ms)	Data Not Available	deg/sec
DID $32 Byte 543	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-520 ms)	Data Not Available	G
DID $32 Byte 544	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-520 ms)	Data Not Available	G
DID $32 Byte 545	$FF	SDM Recorded Vehicle Roll Rate (-510 ms)	Data Not Available	deg/sec
DID $32 Byte 546	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-510 ms)	Data Not Available	G
DID $32 Byte 547	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-510 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 548	$FF	SDM Recorded Vehicle Roll Rate (-500 ms)	Data Not Available	deg/sec
DID $32 Byte 549	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-500 ms)	Data Not Available	G
DID $32 Byte 550	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-500 ms)	Data Not Available	G
DID $32 Byte 551	$FF	SDM Recorded Vehicle Roll Rate (-490 ms)	Data Not Available	deg/sec
DID $32 Byte 552	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-490 ms)	Data Not Available	G
DID $32 Byte 553	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-490 ms)	Data Not Available	G
DID $32 Byte 554	$FF	SDM Recorded Vehicle Roll Rate (-480 ms)	Data Not Available	deg/sec
DID $32 Byte 555	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-480 ms)	Data Not Available	G
DID $32 Byte 556	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-480 ms)	Data Not Available	G
DID $32 Byte 557	$FF	SDM Recorded Vehicle Roll Rate (-470 ms)	Data Not Available	deg/sec
DID $32 Byte 558	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-470 ms)	Data Not Available	G
DID $32 Byte 559	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-470 ms)	Data Not Available	G
DID $32 Byte 560	$FF	SDM Recorded Vehicle Roll Rate (-460 ms)	Data Not Available	deg/sec
DID $32 Byte 561	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-460 ms)	Data Not Available	G
DID $32 Byte 562	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-460 ms)	Data Not Available	G
DID $32 Byte 563	$FF	SDM Recorded Vehicle Roll Rate (-450 ms)	Data Not Available	deg/sec
DID $32 Byte 564	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-450 ms)	Data Not Available	G
DID $32 Byte 565	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-450 ms)	Data Not Available	G
DID $32 Byte 566	$FF	SDM Recorded Vehicle Roll Rate (-440 ms)	Data Not Available	deg/sec

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 567	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-440 ms)	Data Not Available	G
DID $32 Byte 568	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-440 ms)	Data Not Available	G
DID $32 Byte 569	$FF	SDM Recorded Vehicle Roll Rate (-430 ms)	Data Not Available	deg/sec
DID $32 Byte 570	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-430 ms)	Data Not Available	G
DID $32 Byte 571	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-430 ms)	Data Not Available	G
DID $32 Byte 572	$FF	SDM Recorded Vehicle Roll Rate (-420 ms)	Data Not Available	deg/sec
DID $32 Byte 573	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-420 ms)	Data Not Available	G
DID $32 Byte 574	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-420 ms)	Data Not Available	G
DID $32 Byte 575	$FF	SDM Recorded Vehicle Roll Rate (-410 ms)	Data Not Available	deg/sec
DID $32 Byte 576	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-410 ms)	Data Not Available	G
DID $32 Byte 577	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-410 ms)	Data Not Available	G
DID $32 Byte 578	$FF	SDM Recorded Vehicle Roll Rate (-400 ms)	Data Not Available	deg/sec
DID $32 Byte 579	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-400 ms)	Data Not Available	G
DID $32 Byte 580	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-400 ms)	Data Not Available	G
DID $32 Byte 581	$FF	SDM Recorded Vehicle Roll Rate (-390 ms)	Data Not Available	deg/sec
DID $32 Byte 582	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-390 ms)	Data Not Available	G
DID $32 Byte 583	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-390 ms)	Data Not Available	G
DID $32 Byte 584	$FF	SDM Recorded Vehicle Roll Rate (-380 ms)	Data Not Available	deg/sec
DID $32 Byte 585	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-380 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 586	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-380 ms)	Data Not Available	G
DID $32 Byte 587	$FF	SDM Recorded Vehicle Roll Rate (-370 ms)	Data Not Available	deg/sec
DID $32 Byte 588	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-370 ms)	Data Not Available	G
DID $32 Byte 589	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-370 ms)	Data Not Available	G
DID $32 Byte 590	$FF	SDM Recorded Vehicle Roll Rate (-360 ms)	Data Not Available	deg/sec
DID $32 Byte 591	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-360 ms)	Data Not Available	G
DID $32 Byte 592	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-360 ms)	Data Not Available	G
DID $32 Byte 593	$FF	SDM Recorded Vehicle Roll Rate (-350 ms)	Data Not Available	deg/sec
DID $32 Byte 594	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-350 ms)	Data Not Available	G
DID $32 Byte 595	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-350 ms)	Data Not Available	G
DID $32 Byte 596	$FF	SDM Recorded Vehicle Roll Rate (-340 ms)	Data Not Available	deg/sec
DID $32 Byte 597	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-340 ms)	Data Not Available	G
DID $32 Byte 598	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-340 ms)	Data Not Available	G
DID $32 Byte 599	$FF	SDM Recorded Vehicle Roll Rate (-330 ms)	Data Not Available	deg/sec
DID $32 Byte 600	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-330 ms)	Data Not Available	G
DID $32 Byte 601	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-330 ms)	Data Not Available	G
DID $32 Byte 602	$FF	SDM Recorded Vehicle Roll Rate (-320 ms)	Data Not Available	deg/sec
DID $32 Byte 603	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-320 ms)	Data Not Available	G
DID $32 Byte 604	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-320 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 605	$FF	SDM Recorded Vehicle Roll Rate (-310 ms)	Data Not Available	deg/sec
DID $32 Byte 606	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-310 ms)	Data Not Available	G
DID $32 Byte 607	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-310 ms)	Data Not Available	G
DID $32 Byte 608	$FF	SDM Recorded Vehicle Roll Rate (-300 ms)	Data Not Available	deg/sec
DID $32 Byte 609	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-300 ms)	Data Not Available	G
DID $32 Byte 610	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-300 ms)	Data Not Available	G
DID $32 Byte 611	$FF	SDM Recorded Vehicle Roll Rate (-290 ms)	Data Not Available	deg/sec
DID $32 Byte 612	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-290 ms)	Data Not Available	G
DID $32 Byte 613	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-290 ms)	Data Not Available	G
DID $32 Byte 614	$FF	SDM Recorded Vehicle Roll Rate (-280 ms)	Data Not Available	deg/sec
DID $32 Byte 615	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-280 ms)	Data Not Available	G
DID $32 Byte 616	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-280 ms)	Data Not Available	G
DID $32 Byte 617	$FF	SDM Recorded Vehicle Roll Rate (-270 ms)	Data Not Available	deg/sec
DID $32 Byte 618	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-270 ms)	Data Not Available	G
DID $32 Byte 619	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-270 ms)	Data Not Available	G
DID $32 Byte 620	$FF	SDM Recorded Vehicle Roll Rate (-260 ms)	Data Not Available	deg/sec
DID $32 Byte 621	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-260 ms)	Data Not Available	G
DID $32 Byte 622	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-260 ms)	Data Not Available	G
DID $32 Byte 623	$FF	SDM Recorded Vehicle Roll Rate (-250 ms)	Data Not Available	deg/sec

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 624	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-250 ms)	Data Not Available	G
DID $32 Byte 625	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-250 ms)	Data Not Available	G
DID $32 Byte 626	$FF	SDM Recorded Vehicle Roll Rate (-240 ms)	Data Not Available	deg/sec
DID $32 Byte 627	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-240 ms)	Data Not Available	G
DID $32 Byte 628	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-240 ms)	Data Not Available	G
DID $32 Byte 629	$FF	SDM Recorded Vehicle Roll Rate (-230 ms)	Data Not Available	deg/sec
DID $32 Byte 630	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-230 ms)	Data Not Available	G
DID $32 Byte 631	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-230 ms)	Data Not Available	G
DID $32 Byte 632	$FF	SDM Recorded Vehicle Roll Rate (-220 ms)	Data Not Available	deg/sec
DID $32 Byte 633	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-220 ms)	Data Not Available	G
DID $32 Byte 634	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-220 ms)	Data Not Available	G
DID $32 Byte 635	$FF	SDM Recorded Vehicle Roll Rate (-210 ms)	Data Not Available	deg/sec
DID $32 Byte 636	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-210 ms)	Data Not Available	G
DID $32 Byte 637	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-210 ms)	Data Not Available	G
DID $32 Byte 638	$FF	SDM Recorded Vehicle Roll Rate (-200 ms)	Data Not Available	deg/sec
DID $32 Byte 639	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-200 ms)	Data Not Available	G
DID $32 Byte 640	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-200 ms)	Data Not Available	G
DID $32 Byte 641	$FF	SDM Recorded Vehicle Roll Rate (-190 ms)	Data Not Available	deg/sec
DID $32 Byte 642	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-190 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 643	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-190 ms)	Data Not Available	G
DID $32 Byte 644	$FF	SDM Recorded Vehicle Roll Rate (-180 ms)	Data Not Available	deg/sec
DID $32 Byte 645	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-180 ms)	Data Not Available	G
DID $32 Byte 646	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-180 ms)	Data Not Available	G
DID $32 Byte 647	$FF	SDM Recorded Vehicle Roll Rate (-170 ms)	Data Not Available	deg/sec
DID $32 Byte 648	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-170 ms)	Data Not Available	G
DID $32 Byte 649	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-170 ms)	Data Not Available	G
DID $32 Byte 650	$FF	SDM Recorded Vehicle Roll Rate (-160 ms)	Data Not Available	deg/sec
DID $32 Byte 651	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-160 ms)	Data Not Available	G
DID $32 Byte 652	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-160 ms)	Data Not Available	G
DID $32 Byte 653	$FF	SDM Recorded Vehicle Roll Rate (-150 ms)	Data Not Available	deg/sec
DID $32 Byte 654	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-150 ms)	Data Not Available	G
DID $32 Byte 655	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-150 ms)	Data Not Available	G
DID $32 Byte 656	$FF	SDM Recorded Vehicle Roll Rate (-140 ms)	Data Not Available	deg/sec
DID $32 Byte 657	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-140 ms)	Data Not Available	G
DID $32 Byte 658	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-140 ms)	Data Not Available	G
DID $32 Byte 659	$FF	SDM Recorded Vehicle Roll Rate (-130 ms)	Data Not Available	deg/sec
DID $32 Byte 660	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-130 ms)	Data Not Available	G
DID $32 Byte 661	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-130 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 662	$FF	SDM Recorded Vehicle Roll Rate (-120 ms)	Data Not Available	deg/sec
DID $32 Byte 663	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-120 ms)	Data Not Available	G
DID $32 Byte 664	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-120 ms)	Data Not Available	G
DID $32 Byte 665	$FF	SDM Recorded Vehicle Roll Rate (-110 ms)	Data Not Available	deg/sec
DID $32 Byte 666	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-110 ms)	Data Not Available	G
DID $32 Byte 667	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-110 ms)	Data Not Available	G
DID $32 Byte 668	$FF	SDM Recorded Vehicle Roll Rate (-100 ms)	Data Not Available	deg/sec
DID $32 Byte 669	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-100 ms)	Data Not Available	G
DID $32 Byte 670	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-100 ms)	Data Not Available	G
DID $32 Byte 671	$FF	SDM Recorded Vehicle Roll Rate (-90 ms)	Data Not Available	deg/sec
DID $32 Byte 672	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-90 ms)	Data Not Available	G
DID $32 Byte 673	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-90 ms)	Data Not Available	G
DID $32 Byte 674	$FF	SDM Recorded Vehicle Roll Rate (-80 ms)	Data Not Available	deg/sec
DID $32 Byte 675	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-80 ms)	Data Not Available	G
DID $32 Byte 676	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-80 ms)	Data Not Available	G
DID $32 Byte 677	$FF	SDM Recorded Vehicle Roll Rate (-70 ms)	Data Not Available	deg/sec
DID $32 Byte 678	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-70 ms)	Data Not Available	G
DID $32 Byte 679	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-70 ms)	Data Not Available	G
DID $32 Byte 680	$FF	SDM Recorded Vehicle Roll Rate (-60 ms)	Data Not Available	deg/sec

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 681	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-60 ms)	Data Not Available	G
DID $32 Byte 682	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-60 ms)	Data Not Available	G
DID $32 Byte 683	$FF	SDM Recorded Vehicle Roll Rate (-50 ms)	Data Not Available	deg/sec
DID $32 Byte 684	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-50 ms)	Data Not Available	G
DID $32 Byte 685	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-50 ms)	Data Not Available	G
DID $32 Byte 686	$FF	SDM Recorded Vehicle Roll Rate (-40 ms)	Data Not Available	deg/sec
DID $32 Byte 687	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-40 ms)	Data Not Available	G
DID $32 Byte 688	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-40 ms)	Data Not Available	G
DID $32 Byte 689	$FF	SDM Recorded Vehicle Roll Rate (-30 ms)	Data Not Available	deg/sec
DID $32 Byte 690	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-30 ms)	Data Not Available	G
DID $32 Byte 691	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-30 ms)	Data Not Available	G
DID $32 Byte 692	$FF	SDM Recorded Vehicle Roll Rate (-20 ms)	Data Not Available	deg/sec
DID $32 Byte 693	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (-20 ms)	Data Not Available	G
DID $32 Byte 694	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (-20 ms)	Data Not Available	G
DID $32 Byte 695	$FF	SDM Recorded Vehicle Roll Rate (10 ms)	Data Not Available	deg/sec
DID $32 Byte 696	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (10 ms)	Data Not Available	G
DID $32 Byte 697	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (10 ms)	Data Not Available	G
DID $32 Byte 698	$FF	SDM Recorded Vehicle Roll Rate (0 ms)	Data Not Available	deg/sec
DID $32 Byte 699	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (0 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 700	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (0 ms)	Data Not Available	G
DID $32 Byte 701	$FF	SDM Recorded Vehicle Roll Rate (10 ms)	Data Not Available	deg/sec
DID $32 Byte 702	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (10 ms)	Data Not Available	G
DID $32 Byte 703	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (10 ms)	Data Not Available	G
DID $32 Byte 704	$FF	SDM Recorded Vehicle Roll Rate (20 ms)	Data Not Available	deg/sec
DID $32 Byte 705	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (20 ms)	Data Not Available	G
DID $32 Byte 706	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (20 ms)	Data Not Available	G
DID $32 Byte 707	$FF	SDM Recorded Vehicle Roll Rate (30 ms)	Data Not Available	deg/sec
DID $32 Byte 708	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (30 ms)	Data Not Available	G
DID $32 Byte 709	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (30 ms)	Data Not Available	G
DID $32 Byte 710	$FF	SDM Recorded Vehicle Roll Rate (40 ms)	Data Not Available	deg/sec
DID $32 Byte 711	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (40 ms)	Data Not Available	G
DID $32 Byte 712	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (40 ms)	Data Not Available	G
DID $32 Byte 713	$FF	SDM Recorded Vehicle Roll Rate (50 ms)	Data Not Available	deg/sec
DID $32 Byte 714	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (50 ms)	Data Not Available	G
DID $32 Byte 715	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (50 ms)	Data Not Available	G
DID $32 Byte 716	$FF	SDM Recorded Vehicle Roll Rate (60 ms)	Data Not Available	deg/sec
DID $32 Byte 717	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (60 ms)	Data Not Available	G
DID $32 Byte 718	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (60 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 719	$FF	SDM Recorded Vehicle Roll Rate (70 ms)	Data Not Available	deg/sec
DID $32 Byte 720	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (70 ms)	Data Not Available	G
DID $32 Byte 721	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (70 ms)	Data Not Available	G
DID $32 Byte 722	$FF	SDM Recorded Vehicle Roll Rate (80 ms)	Data Not Available	deg/sec
DID $32 Byte 723	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (80 ms)	Data Not Available	G
DID $32 Byte 724	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (80 ms)	Data Not Available	G
DID $32 Byte 725	$FF	SDM Recorded Vehicle Roll Rate (90 ms)	Data Not Available	deg/sec
DID $32 Byte 726	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (90 ms)	Data Not Available	G
DID $32 Byte 727	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (90 ms)	Data Not Available	G
DID $32 Byte 728	$FF	SDM Recorded Vehicle Roll Rate (100 ms)	Data Not Available	deg/sec
DID $32 Byte 729	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (100 ms)	Data Not Available	G
DID $32 Byte 730	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (100 ms)	Data Not Available	G
DID $32 Byte 731	$FF	SDM Recorded Vehicle Roll Rate (110 ms)	Data Not Available	deg/sec
DID $32 Byte 732	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (110 ms)	Data Not Available	G
DID $32 Byte 733	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (110 ms)	Data Not Available	G
DID $32 Byte 734	$FF	SDM Recorded Vehicle Roll Rate (120 ms)	Data Not Available	deg/sec
DID $32 Byte 735	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (120 ms)	Data Not Available	G
DID $32 Byte 736	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (120 ms)	Data Not Available	G
DID $32 Byte 737	$FF	SDM Recorded Vehicle Roll Rate (130 ms)	Data Not Available	deg/sec

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 738	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (130 ms)	Data Not Available	G
DID $32 Byte 739	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (130 ms)	Data Not Available	G
DID $32 Byte 740	$FF	SDM Recorded Vehicle Roll Rate (140 ms)	Data Not Available	deg/sec
DID $32 Byte 741	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (140 ms)	Data Not Available	G
DID $32 Byte 742	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (140 ms)	Data Not Available	G
DID $32 Byte 743	$FF	SDM Recorded Vehicle Roll Rate (150 ms)	Data Not Available	deg/sec
DID $32 Byte 744	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (150 ms)	Data Not Available	G
DID $32 Byte 745	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (150 ms)	Data Not Available	G
DID $32 Byte 746	$FF	SDM Recorded Vehicle Roll Rate (160 ms)	Data Not Available	deg/sec
DID $32 Byte 747	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (160 ms)	Data Not Available	G
DID $32 Byte 748	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (160 ms)	Data Not Available	G
DID $32 Byte 749	$FF	SDM Recorded Vehicle Roll Rate (170 ms)	Data Not Available	deg/sec
DID $32 Byte 750	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (170 ms)	Data Not Available	G
DID $32 Byte 751	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (170 ms)	Data Not Available	G
DID $32 Byte 752	$FF	SDM Recorded Vehicle Roll Rate (180 ms)	Data Not Available	deg/sec
DID $32 Byte 753	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (180 ms)	Data Not Available	G
DID $32 Byte 754	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (180 ms)	Data Not Available	G
DID $32 Byte 755	$FF	SDM Recorded Vehicle Roll Rate (190 ms)	Data Not Available	deg/sec
DID $32 Byte 756	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (190 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 757	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (190 ms)	Data Not Available	G
DID $32 Byte 758	$FF	SDM Recorded Vehicle Roll Rate (200 ms)	Data Not Available	deg/sec
DID $32 Byte 759	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (200 ms)	Data Not Available	G
DID $32 Byte 760	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (200 ms)	Data Not Available	G
DID $32 Byte 761	$FF	SDM Recorded Vehicle Roll Rate (210 ms)	Data Not Available	deg/sec
DID $32 Byte 762	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (210 ms)	Data Not Available	G
DID $32 Byte 763	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (210 ms)	Data Not Available	G
DID $32 Byte 764	$FF	SDM Recorded Vehicle Roll Rate (220 ms)	Data Not Available	deg/sec
DID $32 Byte 765	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (220 ms)	Data Not Available	G
DID $32 Byte 766	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (220 ms)	Data Not Available	G
DID $32 Byte 767	$FF	SDM Recorded Vehicle Roll Rate (230 ms)	Data Not Available	77
DID $32 Byte 768	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (230 ms)	Data Not Available	G
DID $32 Byte 769	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (230 ms)	Data Not Available	G
DID $32 Byte 770	$FF	SDM Recorded Vehicle Roll Rate (240 ms)	Data Not Available	deg/sec
DID $32 Byte 771	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (240 ms)	Data Not Available	G
DID $32 Byte 772	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (240 ms)	Data Not Available	G
DID $32 Byte 773	$FF	SDM Recorded Vehicle Roll Rate (250 ms)	Data Not Available	deg/sec
DID $32 Byte 774	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (250 ms)	Data Not Available	G
DID $32 Byte 775	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (250 ms)	Data Not Available	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $32 Byte 776	$FF	SDM Recorded Vehicle Roll Rate (260 ms)	Data Not Available	deg/sec
DID $32 Byte 777	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (260 ms)	Data Not Available	G
DID $32 Byte 778	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (260 ms)	Data Not Available	G
DID $32 Byte 779	$FF	SDM Recorded Vehicle Roll Rate (270 ms)	Data Not Available	deg/sec
DID $32 Byte 780	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (270 ms)	Data Not Available	G
DID $32 Byte 781	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (270 ms)	Data Not Available	G
DID $32 Byte 782	$FF	SDM Recorded Vehicle Roll Rate (280 ms)	Data Not Available	deg/sec
DID $32 Byte 783	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (280 ms)	Data Not Available	G
DID $32 Byte 784	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (280 ms)	Data Not Available	G
DID $32 Byte 785	$FF	SDM Recorded Vehicle Roll Rate (290 ms)	Data Not Available	deg/sec
DID $32 Byte 786	$FF	Lateral Acceleration (SDM Recorded Vehicle Lateral Acceleration for Rollover Event) (290 ms)	Data Not Available	G
DID $32 Byte 787	$FF	Normal Acceleration (SDM Recorded Vehicle Vertical Acceleration for Rollover Event) (290 ms)	Data Not Available	G

Event Data General (part two)

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID $90 Byte 0	$31	Vehicle Identification Number (VIN) Digit 1	1	
DID $90 Byte 1	$47	Vehicle Identification Number (VIN) Digit 2	G	
DID $90 Byte 2	$36	Vehicle Identification Number (VIN) Digit 3	6	
DID $90 Byte 3	$41	Vehicle Identification Number (VIN) Digit 4	A	
DID $90 Byte 4	$55	Vehicle Identification Number (VIN) Digit 5	U	
DID $90 Byte 5	$35	Vehicle Identification Number (VIN) Digit 6	5	
DID $90 Byte 6	$53	Vehicle Identification Number (VIN) Digit 7	S	
DID $90 Byte 7	$38	Vehicle Identification Number (VIN) Digit 8	8	
DID $90 Byte 8	$38	Vehicle Identification Number (VIN) Digit 9	8	
DID $90 Byte 9	$45	Vehicle Identification Number (VIN) Digit 10	E	
DID $90 Byte 10	$30	Vehicle Identification Number (VIN) Digit 11	0	
DID $90 Byte 11	$31	Vehicle Identification Number (VIN) Digit 12	1	
DID $90 Byte12	$38	Vehicle Identification Number (VIN) Digit 13	8	
DID $90 Byte 13	$33	Vehicle Identification Number (VIN) Digit 14	3	
DID $90 Byte 14	$32	Vehicle Identification Number (VIN) Digit 15	2	
DID $90 Byte 15	$33	Vehicle Identification Number (VIN) Digit 16	3	
DID $90 Byte 16	$32	Vehicle Identification Number (VIN) Digit 17	2	
DID $9A Bytes 0-1	$0911	System Type	N/A	
DID $B4 Bytes 0-1	$3131	Manufacturing Traceability Data, Component Identifier	11	
DID $B4 Bytes 2-5	$31343130	Manufacturing Traceability Data, Part Number/Broadcast Code	1410	
DID $B4 Byte 6	$30	ManufacturingTraceability Data, Supplier Code	0	
DID $B4 Bytes 7-15	$3035303635353 53633	Manufacturing Traceability Data, Traceability Number	050655563	
DID $C1 Bytes 0-3	$00CF5CBD	Software Module Identifier 1	00CF5CBD	
DID $C2 Bytes 0-3	$0161940B	Software Module Identifier 2	0161940B	
DID $C3 Bytes 0-3	$015E77B0	Software Module Identifier 3	015E77B0	
DID $CB Bytes 0-3	$00CF5CBC	End Model Part Number	00CF5CBC	

IMPORTANT NOTICE: Robert Bosch LLC and the manufacturers whose vehicles are accessible using the CDR System urge end users to use the latest production release of the Crash Data Retrieval system software when viewing, printing or exporting any retrieved data from within the CDR program. Using the latest version of the CDR software is the best way to ensure that retrieved data has been translated using the most current information provided by the manufacturers of the vehicles supported by this product.

CDR File Information

User Entered VIN	1GNDV23W37D192801
User	George NTSB
Case Number	HWY15MH009
EDR Data Imaging Date	10/21/2015
Crash Date	
Filename	1GNDV23W37D192801_ACM.CDRX
Saved on	Wednesday, October 21 2015 at 10:34:10
Collected with CDR version	Crash Data Retrieval Tool 16.1.1
Reported with CDR version	Crash Data Retrieval Tool 16.1.1
EDR Device Type	Airbag Control Module
Event(s) recovered	Non-Deployment

Comments

No comments entered.

Data Limitations

Recorded Crash Events:

There are two types of Recorded Crash Events. The first is the No n-Deployment Event. A Non -Deployment Event records data but does not deploy the air bag(s). It contains Pre -Crash and Crash data. The SDM can store up to one Non - Deployment Event. This event may be overwritten by another Non -Deployment Event. This event will be cleared by the SDM, after approximately 250 ignition cycles. This event can be overwritten by a second Deploy ment Event, referred to as a Deployment Level Event, if the Non -Deployment Event is not locked. The data in the Non -Deployment Event file will be locked, if the Non -Deployment Event occurred within five seconds before a Deployment Event. A locked Non Deployment Event cannot be overwritten or cleared by the SDM.

The second type of SDM recorded crash event is the Deployment Even t. It also contains Pre -Crash and Crash data. The SDM can store up to two different Deployment Events, if they occur within five seconds of one another. If a Deployment Level Event occurs within five seconds after the Deployment Event, the Deployment Level Event will overwrite any non - locked Non-Deployment Event. Deployment Events cannot be overwritten or cleared by the SDM. Once the SDM has deployed an air bag, the SDM must be replaced.

Data:

-SDM Recorded Vehicle Longitudinal Velocity Change reflects the cha nge in longitudinal velocity that the sensing system experienced during the recorded portion of the event. SDM Recorde d Vehicle Longitudinal Velocity Change is the change in velocity during the recording time and is not the speed the veh icle was traveling before the event, and is also not the Barrier Equivalent Velocity . For Deployment Events, the SDM will record 100 milliseconds of data after Deployment criteria is met and up to 50 milliseconds before Deployment criteria is met. For Non -Deployment Events, the SDM can record up to the first 150 milliseconds of data after algorithm enable. Velocity Change data is displayed in SAE sign convention.

-Event Recording Complete will indicate if data from the recorded e vent has been fully written to the SDM memory or if it has been interrupted and not fully written.

-SDM Recorded Vehicle Speed accuracy can be affected by various fac tors, including but not limited to the following:

- -Significant changes in the tire's rolling radius
- -Final drive axle ratio changes
- -Wheel lockup and wheel slip

-Brake Switch Circuit Status indicates the open/closed state of the brake switch circuit.

-Pre-Crash data is recorded asynchronously. The 1.0 second Pre-crash data value (most recent recorded data point) is the data point last sampled before AE. That is to say, the last data point may have been captured just before AE but no more than 1.0 second before AE. All subsequent Pre -crash data values are referenced from this data point.

-Pre-Crash Electronic Data Validity Check Status indicates "Data Invali d" if:

- -The SDM receives a message with an "invalid" flag from the module sending the pre -crash data
- -No data is received from the module sending the pre -crash data
- -No module present to send the pre -crash data

-Driver's Belt Switch Circuit Status indicates the status of the dr iver's seat belt switch circuit. If the vehicle's electrical syst em is compromised during a crash, the state of the Driver's Belt Switch Circuit may be reported other than the actual state.
-The Time between Non -Deployment to Deployment Events is displayed in seconds. If the t ime 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 t he crash record may not be recorded.
-All data should be examined in conjunction with other available physi cal evidence from the vehicle and scene.

Data Source:
All SDM recorded data is measured, calculated, and stored internal ly, except for the following:
-Vehicle Speed, Engine Speed, and Percent Throttle data are transmi tted by the Powertrain Control Module (PCM), via the vehicle's communication network, to the SDM.
-Brake Switch Circuit Status data is transmitted by either the ABS module or the PCM, via the vehicle's communication network, to the SDM. Depending on vehicle option content, the Bra ke Switch Circuit Status data may not be available.
-The SDM may obtain Belt Switch Circuit Status data a number of dif ferent ways, depending on the vehicle architecture. Some switches are wired directly to the SDM, while others may obta in the data from various vehicle control modules, via the vehicle's communication network.

Hexadecimal Data:
Data that the vehicle manufacturer has specified for data retrieva l is shown in the hexadecimal data section of the CDR report. The hexadecimal data section of the CDR report may contai n data that is not translated by the CDR program. The control module contains additional data that is not retrievable by the CDR tool.

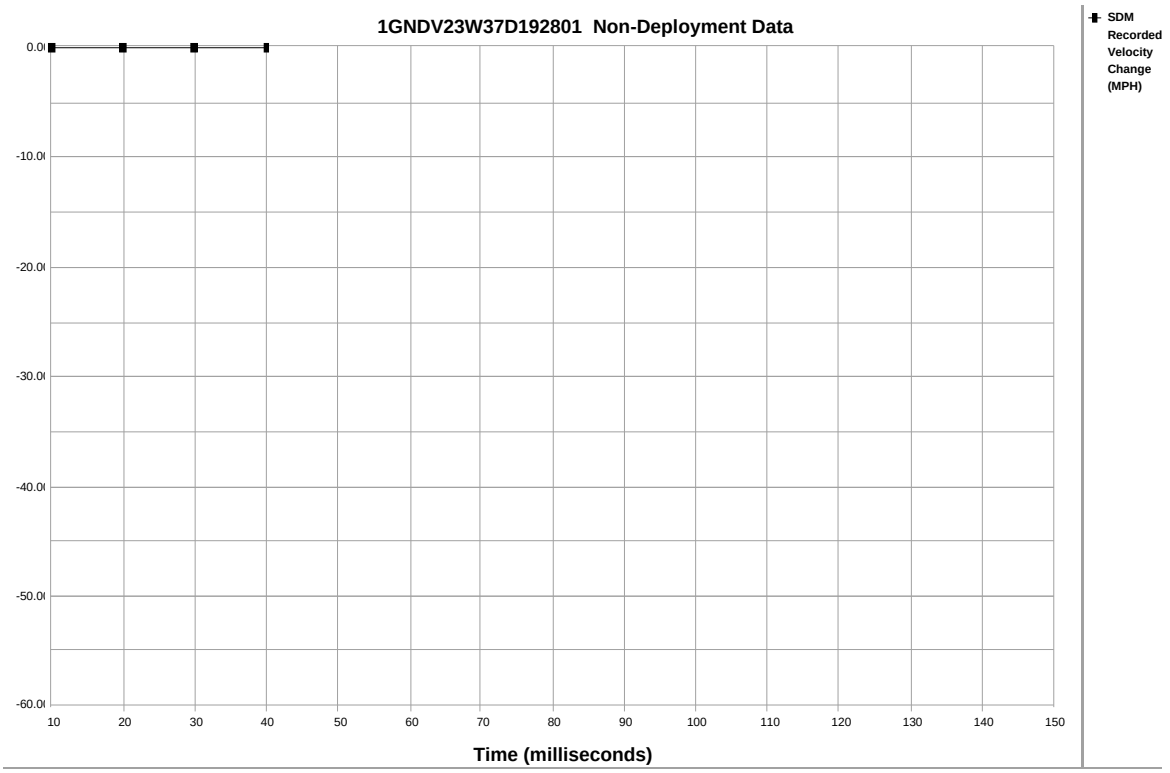
01014 _SDMDW_r004

System Status At Non-Deployment

SIR Warning Lamp Status	OFF
Driver's Belt Switch Circuit Status	BUCKLED
Passenger Belt Switch Circuit Status (If Equipped)	BUCKLED
Driver Seat Position Status (If Equipped)	Rearward
Passenger Seat Position Status (If Equipped)	Rearward
Ignition Cycles At Non-Deployment	11535
Ignition Cycles At Investigation	11626
Maximum SDM Recorded Velocity Change (MPH)	-0.29
Algorithm Enable to Maximum SDM Recorded Velocity Change (msec)	20
Time Between this Event and the Previous Event (sec)	N/A
Event Recording Complete	No

Seconds Before AE	Vehicle Speed (MPH)	Engine Speed (RPM)	Percent Throttle
-5	62	1792	9
-4	61	1728	9
-3	61	1728	9
-2	61	1792	9
-1	61	1792	14

Seconds Before AE	Brake Switch Circuit State
-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
SDM Recorded Velocity Change	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Hexadecimal Data

```
$01  A0 52 63 63 00 00
$02  C4 58 00 00 00 00
$03  41 53 37 30 37 39
$04  4B 38 48 45 31 31
$05  02 41 4F 4B 4A 00
$06  15 25 87 66 00 00
$10  FA 52 FC 00 00 00
$11  88 7B 7A 00 00 7E
$12  68 00 00 00 00 00
$13  0F 00 00 00 00 00
$14  FF 55 ED A5 55 00
$18  7E 7C 7E 7C 7C 7D
$1C  FA FA FA FA FA FA
$1D  FA FA FA FA FA FA
$1E  FA FA 00 00 00 00
$1F  FF 02 00 00 00 00
$20  FF 00 00 7D 80 00
$21  FF FF FF FF FF FF
$22  FF FF FF FF 00 00
$23  00 00 00 00 FF FF
$24  FF FF FF FF FF FF
$25  FF FF FF 04 00 00
$26  62 62 62 62 63 00
$27  23 16 16 16 16 00
$28  1C 1C 1B 1B 1C 00
$29  FA 5E 80 00 00 00
$2A  00 00 00 00 00 00
$2B  00 00 00 00 00 00
$2C  00 00 FF 02 00 15
$2D  00 00 00 00 00 00
$2E  00 00 00 00 00 00
$30  FF FF FF FF FF 00
$31  FF FF FF FF FF FF
$32  FF FF FF FF 00 00
$33  FF FF FF FF FF FF
$34  FF FF FF FF FF FF
$35  FF FF FF FF FF FF
$36  FF FF FF FF FF FF
$37  FF FF FF FF FF FF
$38  FF FF FF FF FF 00
$39  FF FF FF FF FF FF
$3A  FF FF FF FF FF 00
$3B  FF FF FF FF 00 00
$3C  FF FF FF FF FF FF
$3D  FF FF FF FF 00 00
$3E  FF FF FF 00 00 00
$40  FF FF FF FF FF 00
$41  FF FF FF FF FF FF
$42  FF FF FF FF 00 00
$43  FF FF FF 00 00 00
$44  FF 00 00 00 00 00
$50  00 00 00 00 04 07
$51  08 FF 00 00 00 00
$60  FF FF FF FF FF FF
```

```
$61  FF 00 00 00 00 00
```

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IMPORTANT NOTICE: Robert Bosch LLC and the manufacturers whose vehicles are accessible using the CDR System urge end users to use the latest production release of the Crash Data Retrieval system software when viewing, printing or exporting any retrieved data from within the CDR program. Using the latest version of the CDR software is the best way to ensure that retrieved data has been translated using the most current information provided by the manufacturers of the vehicles supported by this product.

CDR File Information

User Entered VIN	1GTFG15X551184113
User	Inv. Cowan #170
Case Number	15-062183
EDR Data Imaging Date	06/29/2015
Crash Date	06/25/2015
Filename	1GTFG15X551184113_ACM 2005 GMC SAVANNA 15-062183.CDRX
Saved on	Monday, June 29 2015 at 10:35:21
Collected with CDR version	Crash Data Retrieval Tool 15.0
Reported with CDR version	Crash Data Retrieval Tool 15.0
EDR Device Type	Airbag Control Module
Event(s) recovered	Non-Deployment

Comments

Imaged at CPD impound lot. NTSB Agents present for download.

Data Limitations

Recorded Crash Events:

There are two types of Recorded Crash Events. The first is the Non-Deployment Event. A Non-Deployment Event records data but does not 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 longitudinal velocity change. This event will be cleared by the SDM, after approximately 250 ignition cycles. This event can be overwritten by a second Deployment Event, referred to as a Deployment Level Event, if the Non-Deployment Event is not locked. The data in the Non-Deployment Event file will be locked, if the Non-Deployment Event occurred within five seconds before a Deployment Event. A locked Non Deployment Event cannot be overwritten or cleared by the SDM.

The second type of SDM recorded crash event is the Deployment Event. It also contains Pre-Crash and Crash data. The SDM can store up to two different Deployment Events, if they occur within five seconds of one another. If multiple Non-Deployment Events occur within five seconds prior to a Deployment Event, then the most severe Non-Deployment Event will be recorded and locked. If multiple Non-Deployment Events precede a Deployment Event, and occur within five seconds of each other (but not necessarily all within five seconds of the Deployment Event), then the most severe of the Non-Deployment Events (which may have occurred more than five seconds prior to the Deployment Event) will be recorded and locked. If a Deployment Level Event occurs within five seconds after the Deployment Event, the Deployment Level Event will overwrite any non-locked Non-Deployment Event. If multiple Non-Deployment Events occur within five seconds prior to a Deployment Event, and one or more of those events was a Pretensioner Deployment Event, then the most recent Pretensioner Deployment Event will be recorded and locked. Deployment Events cannot be overwritten or cleared by the SDM. Once the SDM has deployed an air bag, the SDM must be replaced.

Data:

-SDM Recorded Vehicle Longitudinal Velocity Change reflects the change in longitudinal velocity that the sensing system experienced during the recorded portion of the event. SDM Recorded Vehicle Longitudinal 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. For Deployment Events, the SDM will record 100 milliseconds of data after Deployment criteria is met and up to 50 milliseconds before Deployment criteria is met. For Non-Deployment Events, the SDM can record up to the first 150 milliseconds of data after algorithm enable. Velocity Change data is displayed in SAE sign convention.

-Event Recording Complete will indicate if data from the recorded event has been fully written to the SDM memory or if it has been interrupted and not fully written.

-SDM Recorded Vehicle Speed accuracy can be affected by various factors, including but not limited to the following:

- -Significant changes in the tire's rolling radius
- -Final drive axle ratio changes
- -Wheel lockup and wheel slip

-Brake Switch Circuit Status indicates the open/closed state of the brake switch circuit.

-Pre-Crash data is recorded asynchronously. The 1.0 second Pre-crash data value (most recent recorded data point) is the data point last sampled before AE. That is to say, the last data point may have been captured just before AE but no more than 1.0 second before AE. All subsequent Pre-crash data values are referenced from this data point.

-Pre-Crash Electronic Data Validity Check Status indicates "Data Invalid" if:

- -The SDM receives a message with an "invalid" flag from the module sending the pre-crash data
- -No data is received from the module sending the pre-crash data
- -No module present to send the pre-crash data

-Engine Speed is reported at two times the actual value in the following vehicles, if the vehicle is equipped with a 6.6L

Duramax diesel engine (RPO LB7, LBZ, LLY, or LMM):
-2001-2006 Chevrolet Silverado
-2007 Chevrolet Silverado Classic
-2001-2006 GMC Sierra
-2007 GMC Sierra Classic
-2006-2007 Chevrolet Express
-2006-2007 GMC Savana
-2003-2009 Chevrolet Kodiak
-2003-2009 GMC Topkick

-Driver's and Passenger's Belt Switch Circuit Status indicates the status of the seat belt switch circuit. If the vehicle's electrical system is compromised during a crash, the state of the Driver's Belt Switch Circuit may be reported other than the actual state.
-The Time between Non-Deployment to Deployment Events is displayed in seconds. If the time between the two events is greater than 25.4 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.
-Multiple Events will indicate whether one or more associated events preceded the recorded event.
-Multiple Events Not Recorded can be used in the following scenarios:
-If a single event is recorded, this parameter will indicate whether one or more associated events prior to the recorded event was not recorded due to insufficient record space (because there were more events than there were available event records).
-If two associated events are recorded, this parameter for the first event will indicate whether one or more associated events prior to the first event was not recorded due to insufficient record space.
-If two associated events are recorded, this parameter for the second event will indicate whether one or more associated events between the first and second events was not recorded due to insufficient record space.
-All data should be examined in conjunction with other available physical evidence from the vehicle and scene.

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 by the Powertrain Control Module (PCM), via the vehicle's communication network, to the SDM.
-Brake Switch Circuit Status data is transmitted by either the ABS module or the PCM, via the vehicle's communication network, to the SDM.
-The Belt Switch Circuit is wired directly to the SDM.

Hexadecimal Data:
Data that the vehicle manufacturer has specified for data retrieval is shown in the hexadecimal data section of the CDR report. The hexadecimal data section of the CDR report may contain data that is not translated by the CDR program. The control module contains additional data that is not retrievable by the CDR tool.

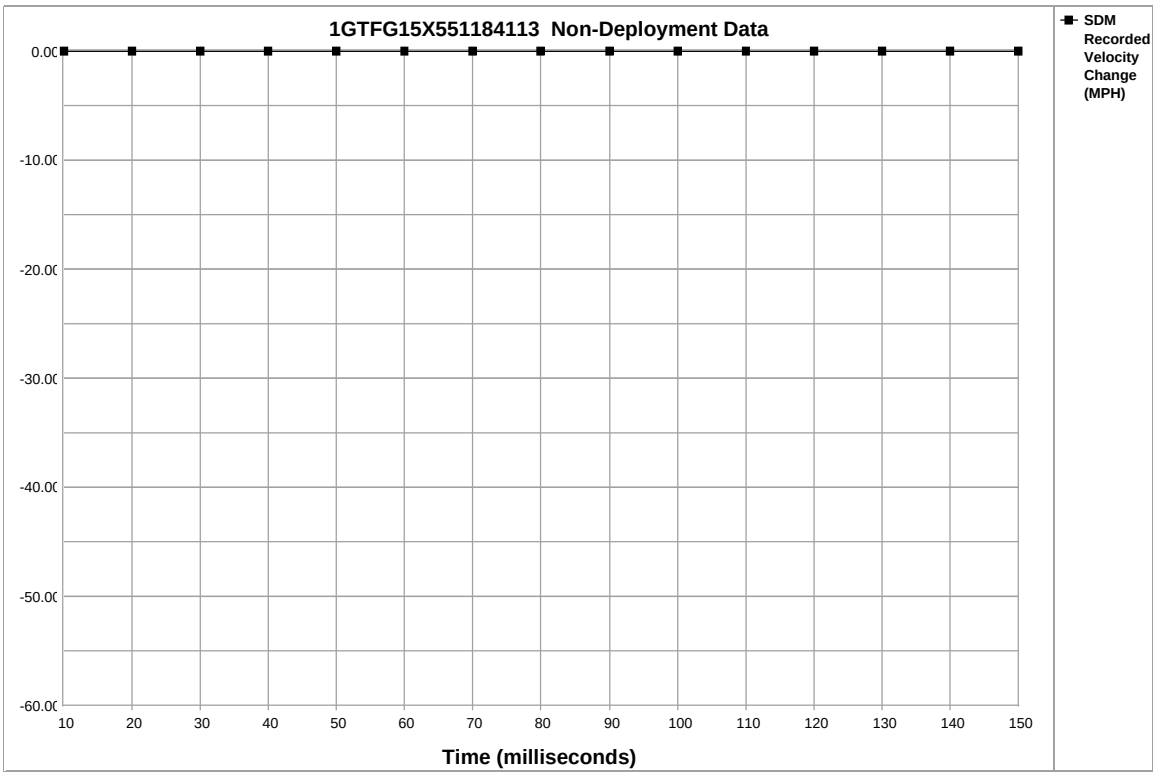
01027_SDMGF_r006

System Status At Non-Deployment

SIR Warning Lamp Status	OFF
Driver's Belt Switch Circuit Status	UNBUCKLED
Passenger Seat Position Switch Circuit Status	Rearward
Ignition Cycles At Non-Deployment	19463
Ignition Cycles At Investigation	19471
Maximum SDM Recorded Velocity Change (MPH)	0.00
Algorithm Enable to Maximum SDM Recorded Velocity Change (msec)	0
Crash Record Locked	No
Event Recording Complete	Yes
Multiple Events	No
Multiple Events Not Recorded	No

Seconds Before AE	Vehicle Speed (MPH)	Engine Speed (RPM)	Percent Throttle
-5	37	1024	0
-4	35	960	0
-3	33	960	0
-2	32	896	0
-1	29	832	0

Seconds Before AE	Brake Switch Circuit State
-8	OFF
-7	OFF
-6	OFF
-5	ON
-4	ON
-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)	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

Data that the vehicle manufacturer has specified for data retrieval is shown in the hexadecimal data section of the CDR report. The hexadecimal data section of the CDR report may contain data that is not translated by the CDR program. The control module contains additional data that is not retrievable by the CDR system.

```
$01  F0 3C E3 42 AC 5A
$02  F8 00 00 00 00 00
$03  41 53 34 33 35 31
$04  4B 33 33 58 37 33
$05  00 00 00 00 00 00
$06  15 19 64 89 00 00
$07  00 00 00 00 00 00
$08  41 44 21 55 58 43
$09  37 4A 30 43 38 5A
$0A  00 00 00 00 00 00
$0B  00 00 00 00 00 00
$0C  00 00 00 00 00 00
$0D  00 00 00 00 00 00
$0E  00 00 00 00 00 00
$0F  00 00 00 00 00 00
$10  F6 7E 80 00 00 00
$11  82 81 83 80 7F 80
$12  98 00 87 3F 3A 10
$13  A9 01 00 00 00 00
$14  1D 00 00 00 00 00
$15  FA FA FA FA FA FA
$16  FA FA FA FA FA FA
$17  FA FA 00 00 00 00
$18  00 0F 01 AC F1 00
$19  00 00 05 00 00 00
$1A  00 00 00 00 00 00
$1B  00 00 00 00 00 00
$1C  00 0C 00 00 00 00
$1D  00 00 00 00 00 00
$1F  FF 00 00 00 00 00
$20  12 FE 00 00 FF FF
$21  FF FF FF FF FF FF
$22  FF FF FF FF FF FF
$23  FF FF FF FF FF FF
$24  00 00 00 00 00 07
$25  40 00 00 10 00 00
$26  00 00 00 00 00 00
$27  00 00 00 00 00 00
$28  00 00 00 00 F6 7F
$29  80 A5 FF FF FF FF
$2A  FF FF FF FF FF FF
$2B  FF FF FF FF FF FF
$2C  FF FF FF FF FF FF
$2D  FF FF 00 00 00 00
$30  FF FF FF FF FF FF
$31  FF FF FF FF FF FF
$32  FF FF FF FF FF FF
$33  FF FF FF FF FF FF
$34  FF FF FF FF FF FF
$35  FF FF FF FF FF FF
$36  FF FF FF FF FF FF
$37  FF FF FF FF FF FF
$38  FF FF FF FF FF FF
$39  FF FF FF FF FF FF
$3A  FF FF FF FF FF FF
$3B  FF FF FF FF FF FF
```

```
$3C  FF FF FF FF FF FF
$3D  FF FF 00 00 00 00
$40  2E 33 35 38 3B 00
$41  F8 00 00 00 00 00
$42  00 00 0D 0E 0F 0F
$43  10 00 7D 80 00 00
$44  03 1A 2B 2E 33 00
$45  DF 00 00 00 00 00
$46  00 00 09 0A 0D 0D
$47  0E 00 7D 80 00 00
$48  FF FF FF FF FF FF
$49  FF FF FF FF FF FF
$4A  FF FF FF FF FF FF
$4B  FF FF FF FF 00 00
$4C  FF FF FF FF FF FF
$4D  FF FF FF FF FF FF
$4E  FF FF FF FF FF FF
$4F  FF FF FF FF 00 00
$50  FF FF FF FF FF FF
$51  FF FF FF FF FF FF
$52  FF FF FF FF FF FF
$53  FF FF FF FF FF FF
$54  FF FF FF FF FF FF
```

Disclaimer of Liability

The users of the CDR product and reviewers of the CDR reports and exported data shall ensure that data and information supplied is applicable to the vehicle, vehicle's system(s) and the vehicle ECU. Robert Bosch LLC and all its directors, officers, employees and members shall not be liable for damages arising out of or related to incorrect, incomplete or misinterpreted software and/or data. Robert Bosch LLC expressly excludes all liability for incidental, consequential, special or punitive damages arising from or related to the CDR data, CDR software or use thereof.

IMPORTANT NOTICE: Robert Bosch LLC and the manufacturers whose vehicles are accessible using the CDR System urge end users to use the latest production release of the Crash Data Retrieval system software when viewing, printing or exporting any retrieved data from within the CDR program. Using the latest version of the CDR software is the best way to ensure that retrieved data has been translated using the most current information provided by the manufacturers of the vehicles supported by this product.

CDR File Information

User Entered VIN/Frame Number	5TFAW5F14FX454963
User	Inv. Cowan #170
Case Number	15-062183
EDR Data Imaging Date	06/29/2015
Crash Date	06/25/2015
Filename	5TFAW5F14FX454963_ACM 2015 TOYOTA TUNDRA 15-062183.CDRX
Saved on	Monday, June 29 2015 at 10:03:54
Collected with CDR version	Crash Data Retrieval Tool 15.0
Reported with CDR version	Crash Data Retrieval Tool 15.0
EDR Device Type	Airbag Control Module
Event(s) recovered	Front/Rear (1)

Comments

Imaged at CPD impound lot. NTSB Agents present for download.

Data Limitations

CDR Record Information:

- Due to limitations of the data recorded by the airbag ECU, such as the resolution, data range, sampling interval, time period of the recording, and the items recorded, the information provided by this data may not be sufficient to capture the entire crash.
- Pre-Crash data is recorded in discrete intervals. Due to different refresh rates within the vehicle's electronics, the data recorded may not be synchronous to each other.
- Airbag ECU data should be used in conjunction with other physical evidence obtained from the vehicle and the surrounding circumstances.
- If any of the front passenger seat airbags, side airbags, or Curtain Shield Airbags have deployed, data will not be overwritten or deleted by the airbag ECU following that event. If none of the airbags have deployed, the data of that event may be overwritten by a following event even if other airbags (pretensioner, rear seat airbag, etc.) have deployed.
- If power supply to the airbag ECU is lost during an event, all or part of the data may not be recorded.
- "Diagnostic Trouble Codes" are information about faults when a recording trigger is established. Various diagnostic trouble codes could be set and recorded due to component or system damage during an accident.
- The airbag ECU records only diagnostic information related to the airbag system. It does not record diagnostic information related to other vehicle systems.
- The TaSCAN, Global TechStream, or Intelligent Tester II devices (or any other Toyota genuine diagnostic tool) can be used to obtain detailed information on the diagnostic trouble codes from the airbag system, as well as diagnostic information from other systems. However, in some cases, the diagnostic trouble codes of the airbag system recorded by the airbag ECU when the event occurred may not match the diagnostic trouble codes read out when the diagnostic tool is used.

General Information:

- The data recording specifications of Toyota's airbag ECUs are divided into the following seven categories. The specifications for 12EDR or later are designed to be compatible with NHTSA's 49CFR Part 563 rule.
  - 00EDR / 02EDR / 04EDR / 06EDR / 10EDR / 12EDR / 13EDR
- The airbag ECU records data for all or some of the following accident types: frontal crash, rear crash , side crash, and rollover events. Depending on the installed airbag ECU, data for side crash and/or rollover events may not be recorded.
- This airbag ECU records record pre-crash data and post-crash data.
  - If a single event occurs independently, the data for that event is recorded on a one-to-one basis.
  - If multiple events occur successively (within a period of approximately 500ms), the establishment of the recording trigger for the first event is defined as the "pre-crash recording trigger". Pre-crash data for the first event and post-crash data for each successive event is then recorded.
- The airbag ECU has two recording pages (memory maps) to store pre-crash data. Additionally, to store post-crash data, the airbag ECU has two recording pages for each accident type: two pages for frontal and rear crash, two pages for a side crash, and two pages for rollover event.
- The data recorded by the airbag ECU includes correlating information between each previously occurring event (i.e., information that clarifies the collision event sequence. This correlation information consists of the following items.
  - Time from Previous Pre-Crash TRG
  - Linked Pre-Crash Page
  - Time from Pre-Crash TRG
  - TRG Count
  - Previous Crash Type
- In frontal and rear collision events, the first point where a longitudinal cumulative delta-V of over 0.8 km/h (0.5 mph) is reached is regarded

as time zero for the recorded data. In side impact collision and rollover events, the point in time at which the recording trigger is established is regarded as time zero for the recorded data.

- The recording trigger judgment threshold value differs depending on the collision type (i.e., frontal crash, rear crash, side crash, or rollover event).
- Some of the data recorded by the airbag ECU is transmitted to the airbag ECU from various vehicle control modules by the vehicle's Controller Area Network (CAN).
- In some cases, the airbag ECU part number printed on the ECU label may not match the airbag ECU part number that the CDR tool reports. The part number retrieved by the CDR tool should be considered as the official ECU part number.
- In frontal and rear collision events, the record time varies depending on the period during which a longitudinal cumulative delta-V of over 0.8 km/h (0.5 mph) is reached, and time series data is recorded for up to 250 ms. The record time described above is indicated as "Length of Delta-V". "Delta-V, Longitudinal" outside the record time is indicated by area shaded in the table, and not indicated in the graph.

Data Element Sign Convention:
The following table provides an explanation of the sign notation for data elements that may be included in this CDR report.

Data Element Name	Positive Sign Notation Indicates
Max. Longitudinal Delta-V	Forward
Longitudinal Delta-V	Forward
Lateral Acceleration for Frontal/Rear Crash, Floor Sensor	Left to Right
Lateral Acceleration, Side Satellite Sensor 1	Left to Right
Lateral Acceleration, Side Satellite Sensor 2	Left to Right
Lateral Acceleration, Side Satellite Sensor 3	Left to Right
Lateral Acceleration, Side Satellite Sensor 4	Left to Right
Lateral Acceleration for Side Crash, Floor Sensor	Left to Right
Roll Angle Peak	Clockwise Rotation
Roll Angle at the Time of TRG	Clockwise Rotation
Roll Rate	Clockwise Rotation
Lateral Acceleration for Rollover, Floor Sensor	Left to Right
Longitudinal Acceleration , VSC Sensor	Forward
Yaw Rate	Left Turn
Steering Input	Left Turn

Data Definitions:
1)

- The "ON" setting for the "Freeze Signal" indicates a state in which the non-volatile memory can not be overwritten or deleted by the airbag ECU. After "Freeze Signal" has been turned ON, subsequent events will not be recorded.
- "Recording Status" indicates a state in which all recorded event data has been written into the non-volatile memory, or a state in which this process was interrupted and not fully written into the non-volatile memory. If "Recording Status" is "Incomplete", recorded event data may not be valid.
- If the "Occupant Size Classification, Front Passenger" displays "Child" or "Not Occupied", "Side Air Bag Deployment, Time to Deploy" and "Pretensioner Deployment, Time to Fire" may indicate a time even if deployment did not occur on the for following part no's:
  - 89170-07280, 35400, 35410, 35470, 42660, 0R120, 0R080, 0R081, 0R150
- "Engine RPM" indicates the number of engine revolutions, not the number of motor revolutions. The recorded value has an upper limit of 12,800 rpm. Resolution is 100 rpm and the value is rounded down and recorded. For example, if the actual engine speed is 799 rpm, the recorded value will be 700 rpm.
- If the electric vehicle is using a calculated/virtual engine RPM for drivetrain control, "Engine RPM" may be recorded, but should not be used during data analysis.
- The upper limit for the recorded "Vehicle Speed" value is 200 km/h (125mph). Resolution is 1km/h (0.6mph) and the value is rounded down and recorded. The accuracy of the "Vehicle Speed" value can be affected by various factors. These include, but not limited, to the following.
  - Significant changes in the tire's rolling radius
  - Wheel lock and wheel slip
- "Accelerator Pedal" has two recording specifications. Both the recorded value increases as the driver depresses the accelerator.
  - Percentage of accelerator pedal depressed (recorded as 0-100(%)).
  - Output voltage of accelerator pedal module (recorded as 0-5(V)).
- If M/T transmission vehicle of some limited model, "Shift Position" may display "Drive" regardless of the actual shift position.
- Depending on the type of occupant sensor installed in the vehicle, one of the following three recording formats for "Occupant Size Classification, Front Passenger" will be utilized.
  - Occupied / Not Occupied
  - AM50 / AF05 / Child / Not Occupied
  - AM50 / AF05 / Child or Not Occupied
- "Cruise Control Status" indicates whether the cruise control system is actuated or not. OFF indicates that the cruise control system is not actuated, but can also indicates that the vehicle is not equipped with the system.
- "Air Bag Warning Lamp, On/Off", "Ignition Cycle, Crash", "Seat Track Position Switch, Foremost, Status, Driver", "Occupant Size Classification, Front Passenger", "Safety Belt Status, Driver", "Safety Belt Status, Front Passenger", "Frontal Air Bag Suppression Switch Status, Front Passenger", and "RSCA Disable Switch" indicate the state approximately 1 second before time zero. They may not always indicate the state at the moment of collision.
- The upper and lower limits for the recorded value of "Motor RPM" is 17,500 rpm and -7,500 rpm respectively. Resolution is 100 rpm and

the value is rounded down and recorded.

- "Brake Oil Pressure" has an upper limit of 12.14 Mpa. In the case of the vehicle that has not VSC system, "0 Mpa" or "Invalid" may be displayed.
- "Longitudinal Acceleration , VSC Sensor" has upper and lower limits for the recorded value of 8.973 m/s^2 and -8.973 m/s^2 respectively. This acceleration sensor does not sense collisions.
- "Sequential Shift Range" displaying "Undetermined" indicates the shift range is undetermined or was not being used.
- Some vehicles will not be equipped with all "Drive Mode" types indicated in the "Drive Mode" table. If some or all drive modes are not applicable to vehicle, "OFF" or "Invalid" may be displayed. The item in the "Drive Mode" table may not match the name of switch or indicator that equipped the vehicle.
- The upper and lower limits for the recorded value of "Steering Input" is 375 deg and -375 deg respectively. Resolution is 1.5 deg and the value is rounded down and recorded.
- Resolution of the "Air Bag Warning Lamp ON Time Since DTC was Set" is 15 minutes, and the value is rounded down and recorded.
- "Delta-V, Longitudinal" indicates the change in forward speed after time zero. This does not refer to vehicle speed, and it does not include the change in speed during the period from the start of the actual collision to establishment of the time zero.
- "Location of Side Satellite Sensor" shows the outline of a typical sensor position. Sensory location can be confirmed using the repair manual.
- "Time from Previous Pre-Crash TRG" indicates the time between the establishment of an event's pre-crash recording trigger to the establishment of a more recent event's pre-crash recording trigger. The upper limit for the recorded value is 16,381 milliseconds. In the event of establishment of the first pre-crash recording trigger after the ignition is switched ON, the upper limit value(max value) is recorded.
- "TRG Count" indicates a calculated value of the number of times recording triggers have been established for all crash types. The sequence in which each event occurred can be verified from the "TRG Count". The smaller the "TRG Count" value, the older the data. The upper limit for the recorded value is 65,533 times. When more than one event reaches the upper limit, the actual "TRG Count" may be greater than what is displayed for that event.
- "Linked Pre-Crash Page" is used to link 'paged" pre-crash data with 'paged" post-crash data. When old pre-crash data is overwritten by new pre-crash data, the "Linked Pre-Crash Page" value may record a page number that is not actually linked.
- Resolution of the "Time from Pre-Crash to TRG" is 50 [ms], and the value is rounded up and recorded.
- "Roll Angle at the Time of TRG" and "Roll Angle Peak" do not represent the actual roll angle of the vehicle. These values are used internally by the airbag ECU for sensing a rollover.

05013_ToyotaS00std_r023

System Status at Time of Retrieval

ECU Part Number	89170-0C520
EDR Generation	13EDR
Complete File Recorded	Yes
Freeze Signal	OFF
Freeze Signal Factor	None
Diagnostic Trouble Codes Exist	No
Ignition Cycle ,Download (times)	651
Multi-event, number of events (times)	1
Time from event 1 to 2 (s)	N/A
Time from Previous Pre Crash TRG (msec)	16381 or greater
Latest Pre-Crash Page	0
Contains Unlinked Pre-Crash Data	No

Event Record Summary at Retrieval

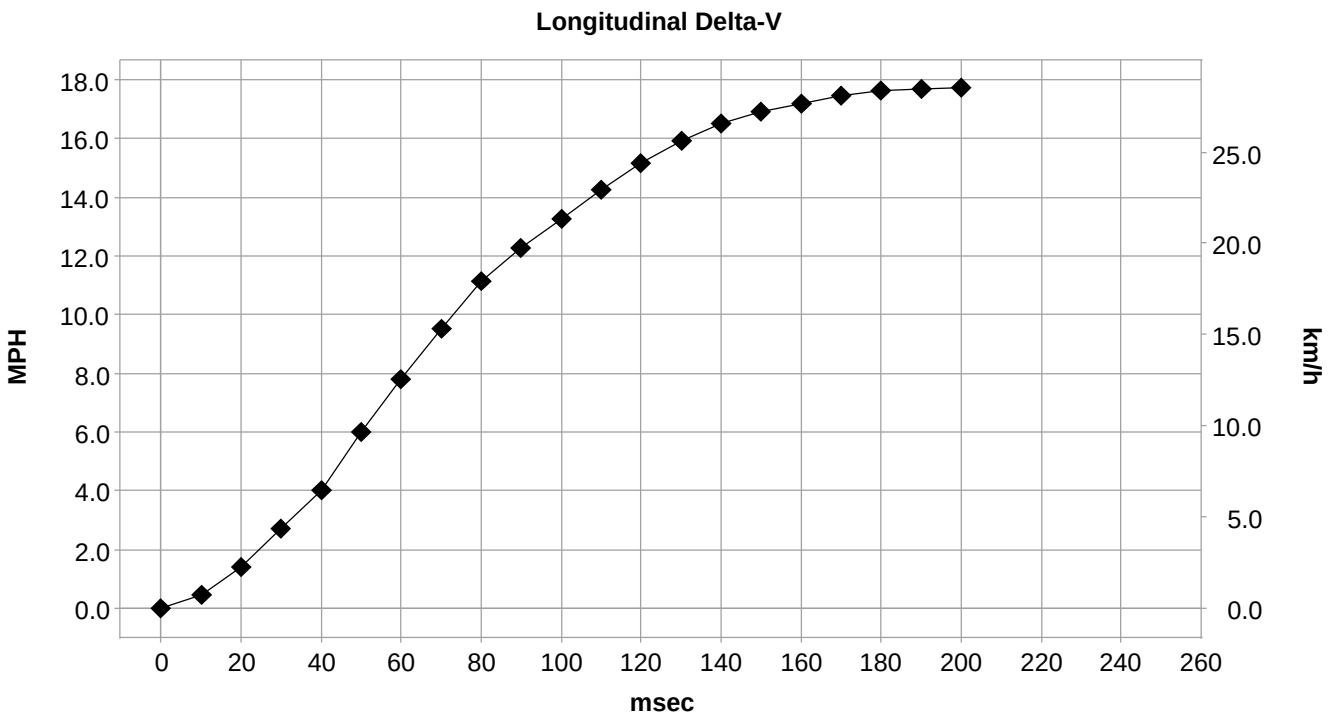
Events Recorded	TRG Count	Crash Type	Time (msec)	Pre-Crash & DTC Data Recording Status	Event & Crash Pulse Data Recording Status
Most Recent Event	1	Front/Rear Crash	0	Complete (Page 0)	Complete (Front/Rear Page 0)

System Status at Event (Most Recent Event, TRG 1)

Recording Status, Front/Rear Crash Info.	Complete
Crash Type	Front/Rear Crash
TRG Count (times)	1
Previous Crash Type	No Event
Time from Pre-Crash TRG (msec)	0
Linked Pre-Crash Page	0
Frontal Airbag Deployment, Time to 1st Stage Deployment, Driver (msec)	No
Frontal Airbag Deployment, Time to 1st Stage Deployment, Front Passenger (msec)	No
Pretensioner Deployment, Time to Fire, Driver (msec)	No
Pretensioner Deployment, Time to Fire, Front Passenger (msec)	No
Frontal Airbag Deployment, Time to 2nd Stage, Driver (msec)	N/A
Frontal Airbag Deployment, Time to 2nd Stage, Front Passenger (msec)	N/A
Active Head Restraint, Time to Deploy, Driver (msec)	SNA
Active Head Restraint, Time to Deploy, Front Passenger (msec)	SNA
Side Curtain Airbag Deployment, Time to Deploy, Driver (msec)	No
Side Curtain Airbag Deployment, Time to Deploy, Passenger (msec)	No
Side Airbag Deployment, Time to Deploy, Driver (msec)	SNA
Side Airbag Deployment, Time to Deploy, Passenger (msec)	SNA
Rear Window Airbag Deployment, Time to Deploy (msec)	SNA

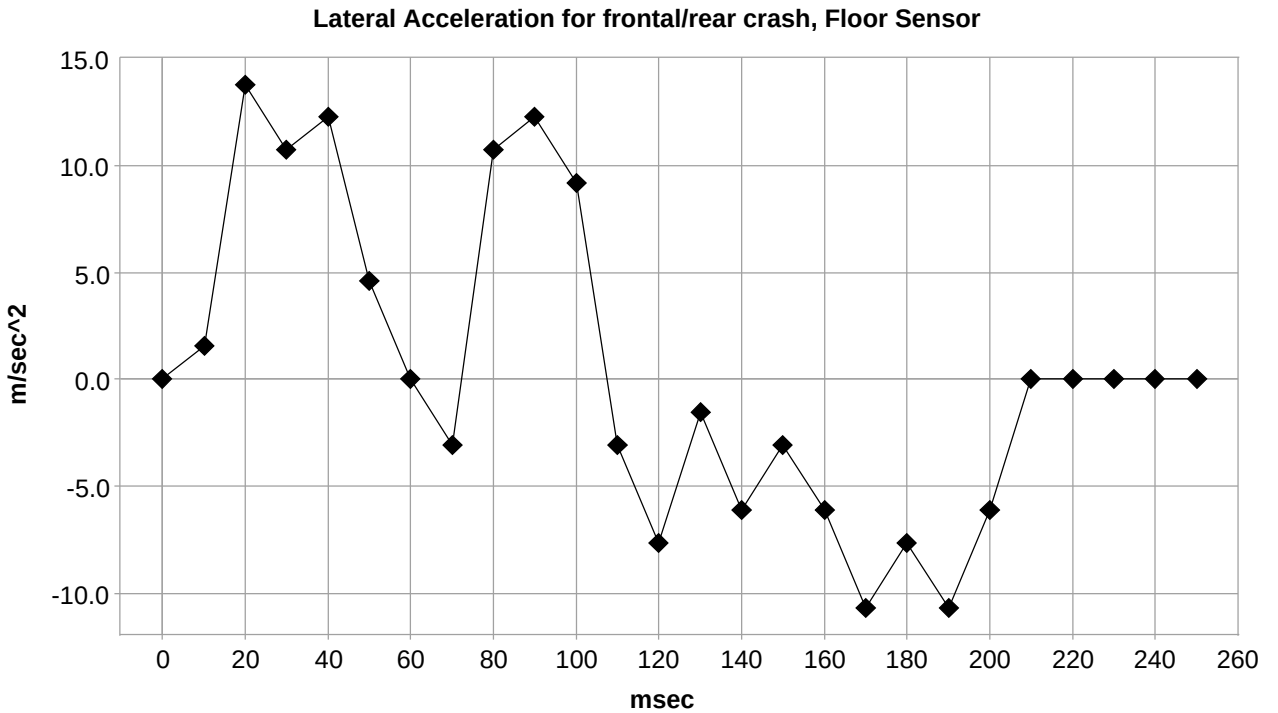
Longitudinal/Lateral Crash Pulse (Most Recent Event, TRG 1 - table 1 of 2)

Recording Status, Time Series Data	Complete
Time from Time Zero to TRG (msec)	45.0
Length of Delta-V (msec)	200
Max. Longitudinal Delta-V (MPH [km/h])	17.7 [28.5]
Time, Maximum Delta-V, Longitudinal (msec)	199.0
Power Supply Status at Max. Delta-V	ON
Clipping Time of Longitudinal Delta-V (msec)	No
Clipping Time of Lateral Acceleration, Floor Sensor (msec)	No



Deployment Time Marker Key

1	Driver Airbag Deployment Time
2	Passenger Airbag Deployment Time
3	Driver/Passenger Pretensioner
4	Driver 2nd Stage Airbag Deployment Time
5	Passenger 2nd Stage Airbag Deployment
6	Driver/Passenger AHR
7	Driver CSA
8	Passenger CSA
9	Rear Window Airbag Deployment Time
10	Driver SAB
11	Passenger SAB



Deployment Time Marker Key

1	Driver Airbag Deployment Time
2	Passenger Airbag Deployment Time
3	Driver/Passenger Pretensioner
4	Driver 2nd Stage Airbag Deployment Time
5	Passenger 2nd Stage Airbag Deployment
6	Driver/Passenger AHR
7	Driver CSA
8	Passenger CSA
9	Rear Window Airbag Deployment Time
10	Driver SAB
11	Passenger SAB

Longitudinal/Lateral Crash Pulse (Most Recent Event, TRG 1 - table 2 of 2)

Time (msec)	Longitudinal Delta-V (MPH [km/h])	Lateral Acceleration for Frontal/Rear Crash, Floor Sensor (m/sec^2)	Power Supply Status
0	0.0 [0.0]	0.0	ON
10	0.4 [0.7]	1.5	ON
20	1.4 [2.2]	13.8	ON
30	2.7 [4.4]	10.7	ON
40	4.0 [6.4]	12.3	ON
50	6.0 [9.6]	4.6	ON
60	7.8 [12.5]	0.0	ON
70	9.5 [15.3]	-3.1	ON
80	11.1 [17.9]	10.7	ON
90	12.3 [19.7]	12.3	ON
100	13.2 [21.3]	9.2	ON
110	14.3 [23.0]	-3.1	ON
120	15.1 [24.4]	-7.7	ON
130	15.9 [25.6]	-1.5	ON
140	16.5 [26.5]	-6.1	ON
150	16.9 [27.2]	-3.1	ON
160	17.2 [27.7]	-6.1	ON
170	17.4 [28.1]	-10.7	ON
180	17.6 [28.4]	-7.7	ON
190	17.7 [28.5]	-10.7	ON
200	17.7 [28.5]	-6.1	ON
210	0.0 [0.0]	0.0	ON
220	0.0 [0.0]	0.0	ON
230	0.0 [0.0]	0.0	ON
240	0.0 [0.0]	0.0	ON
250	0.0 [0.0]	0.0	ON

DTCs Present at Time of Event (Most Recent Event, TRG 1)

Recording Status, Diagnostic	Complete
Ignition Cycle Since DTC was Set (times)	0
Airbag Warning Lamp ON Time Since DTC was Set (min)	0
Diagnostic Trouble Codes	None

Pre-Crash Data, 1 Sample (Most Recent Event, TRG 1)

Recording Status, Pre-Crash/Occupant	Complete
Time from Pre-Crash to TRG (msec)	500
TRG Count when Pre-crash TRG was Established (times)	1
Safety Belt Status, Driver	ON
Safety Belt Status, Front Passenger	ON
Occupant Size Classification, Front Passenger	AM50 (Not Child)
Frontal Airbag Suppression Switch Status, Front Passenger	SNA
RSCA Disable Switch	SNA
Seat Track Position Switch, Foremost, Status, Driver	No
Airbag Warning Lamp, On/Off	OFF
Ignition Cycle ,Crash (times)	645

Pre-Crash Data, -5 to 0 seconds (Most Recent Event, TRG 1)

Time (sec)	-5	-4.5	-4	-3.5	-3	-2.5	-2	-1.5	-1	-0.5	0 (TRG)
Vehicle Speed (MPH [km/h])	2.5 [4]	2.5 [4]	2.5 [4]	2.5 [4]	2.5 [4]	3.1 [5]	3.1 [5]	3.1 [5]	3.1 [5]	5 [8]	9.9 [16]
Accelerator Pedal, % Full (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5	65.0	100.0
Percentage of Engine Throttle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	50.5	100.0
Engine RPM (RPM)	600	600	600	600	600	600	600	600	600	1,600	1,900
Motor RPM (RPM)	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid
Service Brake, ON/OFF	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
Brake Oil Pressure (Mpa)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Longitudinal Acceleration ,	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid
Yaw Rate (deg/sec)	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid
Steering Input (degrees)	-10.5	-10.5	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	1.5	16.5
Shift Position	D	D	D	D	D	D	D	D	D	D	D
Sequential Shift Range	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined
Cruise Control Status	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Drive Mode, PWR	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid
Drive Mode, ECO	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid
Drive Mode, Sport	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid
Drive Mode, Snow	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid
Drive Mode, EV	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid
Fuel Injection Quantity	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid

Hexadecimal Data

Data that the vehicle manufacturer has specified for data retrieval is shown in the hexadecimal data section of the CDR report. The hexadecimal data section of the CDR report may contain data that is not translated by the CDR program. The control module contains additional data that is not retrievable by the CDR system.

PIDs	PID	Data
	00	BE 20 00 01
	01	00
	03	30 43 35 32 30 30 30 30 32 31 30 30 30 32 31 30 30 30 32 32 30 30 30 32 32 30 30 30 32 34 30 30 30 32 34
	04	02 FF 01 01
	05	02
	06	00
	07	30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30
	0B	00
	20	80 00 00 01
	21	04 9F
	40	C0 00 E0 01
	41	54 57
	42	45 51 14 22 05
	51	FF
	52	99
	53	00
	60	FF FF F0 01
	61	04 05 E8 00 C2 60 28 00 01 C0 01 C0 00 00 00 00 03 C0 03 C0 00 00 00 00 1F 40 29 B1 85 5F C0 00 11 30 19 00
	62	00 00 3F FD 02 8B 00 00 00 00
	63	55 24 02 85 13 11 FF 00 11 11 11 11 11 10 04 04 04 04 04 05 05 05 05 08 10 00 00 00 00 00 00 00 00 55 82 C8 55 50 00 06 06 06 06 06 06 06 06 06 10 13 00 00 00 00 00 00 00 00 01
	64	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	65	55 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	66	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	67	55 E0 00 00 01 FE FE FE FE FE 55 FD FD FF FE FF FE FF FE FF FE 03 FE
	68	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	69	00 5A 15 00 00 3F EC 3F BF 3F 81 3F 45 3E E9 3E 94 3E 43 3D F9 3D C4 3D 96 3D 66 3D 3D 3D 1A 3C FE 3C EA 3C DD 3C D2 3C C9 3C C6 3C C4 00 00 00 00 00 00 00 00 00 00 3C C4 01 8E
	6A	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	6B	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	6C	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	6D	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	6E	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	6F	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	70	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	71	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

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      00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
72    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
      00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
73    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
      7E 7E 7E 7E 7E 7E 7E 7E 7E 7E 7E 7E 7E 7E 7E 7E 7E 7E 7E 7E 7E 7E
      00 00 00 00 00 00 00 00 06 65 C8 00 00 00
74    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
      00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
      00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
80    00 00 00 01
A0    0C 00 1F 81
A5    00 50 00 50 00 50 00 50 00 50 00 50 00 50 00 50 00 50 00 50 00 50
      FE FE FE FE FE FE FE FE FE FE FE 14 14 14 14 14 14 14 14 19 3A 5C
      FE FE FE FE FE FE FE FE FE FE FE
A6    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
      00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
      00 00 00 00 00 00 00 00 00 00 00 00
B4    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
      00 00 00 00
B5    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
      00 00 00 00
B6    00 FF F7 F9 F8 FD 00 02 F9 F8 FA 02 05 01 04 02 04 07 05 07 04 00
      00 00 00 00 03 FE
B7    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
      00 00 00 00 00 00
B8    03 F9 03 F9 03 FC 03 FC 03 FC 03 FC 03 FC 03 FC 03 FC 00 01 00 0B

B9    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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Disclaimer of Liability

The users of the CDR product and reviewers of the CDR reports and exported data shall ensure that data and information supplied is applicable to the vehicle, vehicle's system(s) and the vehicle ECU. Robert Bosch LLC and all its directors, officers, employees and members shall not be liable for damages arising out of or related to incorrect, incomplete or misinterpreted software and/or data. Robert Bosch LLC expressly excludes all liability for incidental, consequential, special or punitive damages arising from or related to the CDR data, CDR software or use thereof.

IMPORTANT NOTICE: Robert Bosch LLC and the manufacturers whose vehicles are accessible using the CDR System urge end users to use the latest production release of the Crash Data Retrieval system software when viewing, printing or exporting any retrieved data from within the CDR program. Using the latest version of the CDR software is the best way to ensure that retrieved data has been translated using the most current information provided by the manufacturers of the vehicles supported by this product.

CDR File Information

User Entered VIN/Frame Number	JTDKN3DU8A0212994
User	Inv. Cowan #170
Case Number	15-02183
EDR Data Imaging Date	06/29/2015
Crash Date	06/25/2015
Filename	JTDKN3DU8A0212994_ACM 2010 TOYOTA PRIUS IMPOUND 15-062183.CDRX
Saved on	Monday, June 29 2015 at 09:43:17
Collected with CDR version	Crash Data Retrieval Tool 15.0
Reported with CDR version	Crash Data Retrieval Tool 15.0
EDR Device Type	Airbag Control Module
Event(s) recovered	Front/Rear (2), Side (1)

Comments

ACM removed. Imaged at CPD Impound lot with NTSB agents present.

Data Limitations

CDR Record Information:

- Due to limitations of the data recorded by the airbag ECU, such as the resolution, data range, sampling interval, time period of the recording, and the items recorded, the information provided by this data may not be sufficient to capture the entire crash.
- Pre-Crash data is recorded in discrete intervals. Due to different refresh rates within the vehicle's electronics, the data recorded may not be synchronous to each other.
- Airbag ECU data should be used in conjunction with other physical evidence obtained from the vehicle and the surrounding circumstances.
- If the airbags did not deploy or the pretensioners did not operate during an event that meets a specified recording threshold, it is called a Non-Deployment Event. Data from a Non-Deployment Event can be overwritten by a succeeding event that meets the specified recording threshold. If the airbag(s) deploy or the pretensioners are operated, it is called a Deployment Event. Deployment Event data cannot be overwritten or deleted by the airbag ECU following that event.
- If power supply to the airbag ECU is lost during an event, all or part of the data may not be recorded.
- "Diagnostic Trouble Codes" are information about faults when a recording trigger is established. Various diagnostic trouble codes could be set and recorded due to component or system damage during an accident.
- The airbag ECU records only diagnostic information related to the airbag system. It does not record diagnostic information related to other vehicle systems.
- The TaSCAN, Global TechStream, or Intelligent Tester II devices (or any other Toyota genuine diagnostic tool) can be used to obtain detailed information on the diagnostic trouble codes from the airbag system, as well as diagnostic information from other systems. However, in some cases, the diagnostic trouble codes of the airbag system recorded by the airbag ECU when the event occurred may not match the diagnostic trouble codes read out when the diagnostic tool is used.

General Information:

- The data recording specifications of Toyota's airbag ECUs are divided into the following seven categories. The specifications for 12EDR or later are designed to be compatible with NHTSA's 49CFR Part 563 rule.
  - 00EDR / 02EDR / 04EDR / 06EDR / 10EDR / 12EDR / 13EDR
- The airbag ECU records data for all or some of the following accident types: frontal crash, rear crash , side crash, and rollover events. Depending on the installed airbag ECU, data for side crash and/or rollover events may not be recorded.
- This airbag ECU records post-crash data, and depending on the airbag ECU, may record pre-crash data.
  - If a single event occurs independently, the data for that event is recorded on a one-to-one basis.
  - If multiple events occur successively (within a period of approximately 500ms), the establishment of the recording trigger for the first event is defined as the "pre-crash recording trigger". Pre-crash data for the first event and post-crash data for each successive event is then recorded.
- The airbag ECU has two recording pages (memory maps) to store pre-crash data. Additionally, to store post-crash data, the airbag ECU has two recording pages for each accident type: two pages for frontal and rear crash, two pages for a side crash, and two pages for rollover event.
- The data recorded by the airbag ECU includes correlating information between each previously occurring event (i.e., information that clarifies the collision event sequence. This correlation information consists of the following items.
  - Time from Previous Pre-Crash TRG
  - Linked Pre-Crash Page
  - Time from Pre-Crash TRG
  - TRG Count

- Previous Crash Type
- The point in time at which the recording trigger is established is regarded as time zero for the recorded data.
- The recording trigger judgment threshold value differs depending on the collision type (i.e., frontal crash, rear crash, side crash, or rollover event).
- Time series data for side crash may have 24 or 25 sampling points.
- Some of the data recorded by the airbag ECU is transmitted to the airbag ECU from various vehicle control modules by the vehicle's Controller Area Network (CAN).
- In some cases, the airbag ECU part number printed on the ECU label may not match the airbag ECU part number that the CDR tool reports. The part number retrieved by the CDR tool should be considered as the official ECU part number.

Data Element Sign Convention:
The following table provides an explanation of the sign notation for data elements that may be included in this CDR report.

Data Element Name	Positive Sign Notation Indicates
Max. Longitudinal Delta-V	Forward
Longitudinal Delta-V	Forward
Max. Lateral Delta-V , B-Pillar Sensor	Outside to Inside
Max. Lateral Delta-V , C-Pillar Sensor	Outside to Inside
Max. Lateral Delta-V , Front Door Sensor	Outside to Inside
Max. Lateral Delta-V , Slide Door Sensor	Outside to Inside
Lateral Delta-V , B-Pillar Sensor	Outside to Inside
Lateral Delta-V , C-Pillar Sensor	Outside to Inside
Lateral Delta-V , Airbag ECU Sensor	Left to Right
Roll Angle Peak	Clockwise Rotation
Roll Angle	Clockwise Rotation
Lateral Acceleration , Airbag ECU Sensor *	Right to Left

* For sensing a rollover

Data Definitions:
1)
- The "ON" setting for the "Freeze Signal" indicates a state in which the non-volatile memory can not be overwritten or deleted by the airbag ECU. After "Freeze Signal" has been turned ON, subsequent events will not be recorded.
- "Recording Status" indicates a state in which all recorded event data has been written into the non-volatile memory, or a state in which this process was interrupted and not fully written into the non-volatile memory. If "Recording Status" is "Incomplete", recorded event data may not be valid.
- "Time to Deployment Command" indicates the time between recording trigger establishment and the determination of airbag deployment. This value may differ from the actual time it takes for the airbag to fully deploy.
- Even if an airbag/pretensioner did not deploy due to the "front passenger airbag disable switch and/or "RSCA Disable Switch" in the ON position or other disabling criteria are met, the "Time to deployment command" data element for that airbag/pretensioner may still be recorded.
- "Engine RPM" indicates the number of engine revolutions, not the number of motor revolutions. The recorded value has an upper limit of 5,200 rpm. Resolution is 400 rpm and the value is rounded down and recorded. For example, if the actual engine speed is 799 rpm, the recorded value will be 400 rpm.
- The upper limit for the recorded "Vehicle Speed" value is 122 km/h (75.8mph). Resolution is 2km/h (1.2mph) and the value is rounded down and recorded. The accuracy of the "Vehicle Speed" value can be affected by various factors. These include, but not limited, to the following.
  - Significant changes in the tire's rolling radius
  - Wheel lock and wheel slip
- "Accelerator Rate" has two recording specifications. Both the recorded value increases as the driver depresses the accelerator.
  - Percentage of accelerator pedal depressed (recorded as 0-100(%)).
  - Output voltage of accelerator pedal module (recorded as 0-5(V)).
- The "Drive" setting for the "Shift Position" value indicates the shift position state is other than "R,"(Reverse), "N" (Neutral), or "P" (Park). If sequential shift had been used, "Invalid" may be displayed.
- Depending on the type of occupant sensor installed in the vehicle, one of the following four recording formats for "Occupancy Status, Passenger" will be utilized.
  - Occupied / Not Occupied
  - Adult / Child / Not Occupied
  - AM50 / AF05 / Child / Not Occupied
  - AM50 / AF05 / Child or Not Occupied
- Resolution of the "Air Bag Warning Lamp ON Time Since DTC was Set" is 15 minutes, and the value is rounded down and recorded.
- "Longitudinal Delta-V" indicates the change in forward speed after establishment of the recording trigger. This does not refer to vehicle speed, and it does not include the change in speed during the period from the start of the actual collision to establishment of the recording trigger.
- "Roll Angle peak" may not always match the peak value within the "Roll Angle" sampling points due to differences in data calculation method.
- For "Lateral Delta-V", the sensor location (B-pillar, front door, C-pillar, and slide door) shows the outline of a typical sensor position. Sensory location can be confirmed using the repair manual.
- "Time from Previous Pre-Crash TRG" indicates the time between the establishment of an event's pre-crash recording trigger to the establishment of a more recent event's pre-crash recording trigger. The upper limit for the recorded value is 16,381 milliseconds. In the

event of establishment of the first pre-crash recording trigger after the ignition is switched ON, the upper limit value(max value) is recorded.

- "TRG Count" indicates a calculated value of the number of times recording triggers have been established for all crash types. The sequence in which each event occurred can be verified from the "TRG Count". The smaller the "TRG Count" value, the older the data. The upper limit for the recorded value is 65,533 times. When more than one event reaches the upper limit, the actual "TRG Count" may be greater than what is displayed for that event.
- "Linked Pre-Crash Page" is used to link 'paged" pre-crash data with 'paged" post-crash data. When old pre-crash data is overwritten by new pre-crash data, the "Linked Pre-Crash Page" value may record a page number that is not actually linked.
- Resolution of the "Time from Pre-Crash to TRG" is 100 [ms], and the value is rounded down and recorded.

05006_ToyotaDENSO_r023

System Status at Time of Retrieval

ECU Part Number	89170-47080
ECU Generation	06EDR
Recording Status, All Pages	Complete
Freeze Signal	ON
Freeze Signal Factor	Side, Passenger Curtain Shield Airbag Deployment
Diagnostic Trouble Codes Exist	No
Time from Previous Pre Crash TRG (msec)	16381 or greater
Latest Pre-Crash Page	1
Contains Unlinked Pre-Crash Data	No

Event Record Summary at Retrieval

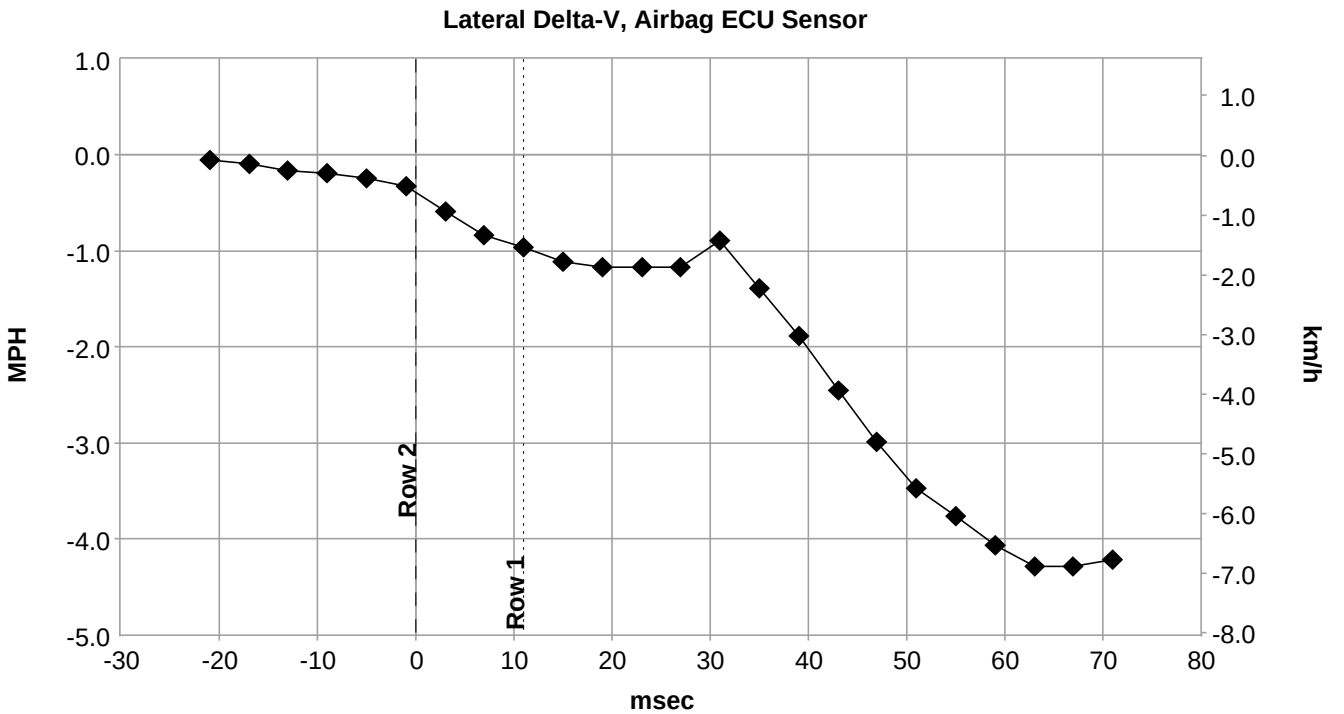
Events Recorded	TRG Count	Crash Type	Time (msec)	Pre-Crash & DTC Data Recording Status	Event & Crash Pulse Data Recording Status
Most Recent Event	3	Side Crash	0	Complete (Page 1)	Complete (Side Page 0)
1st Prior Event	2	Front/Rear Crash	-26	Complete (Page 1)	Complete (Front/Rear Page 1)
2nd Prior Event	1	Front/Rear Crash	-16381 or greater	Complete (Page 0)	Complete (Front/Rear Page 0)

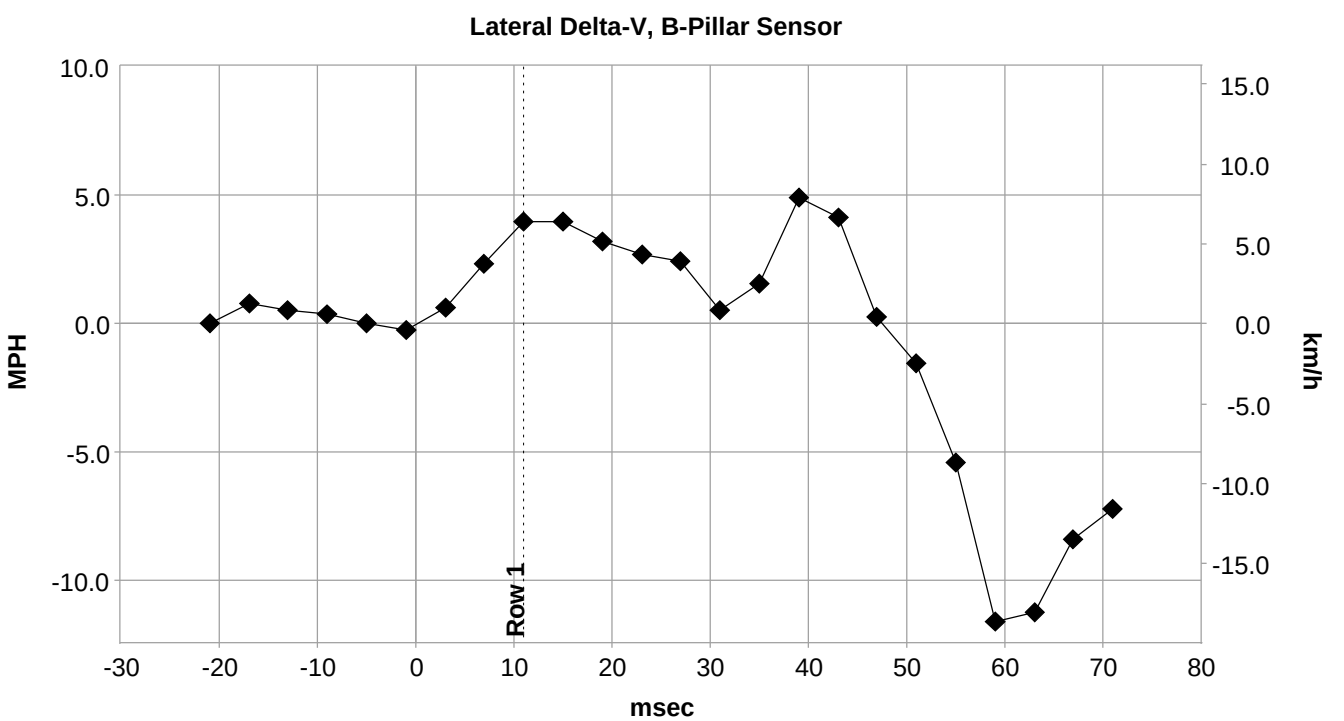
System Status at Event (Most Recent Event, TRG 3)

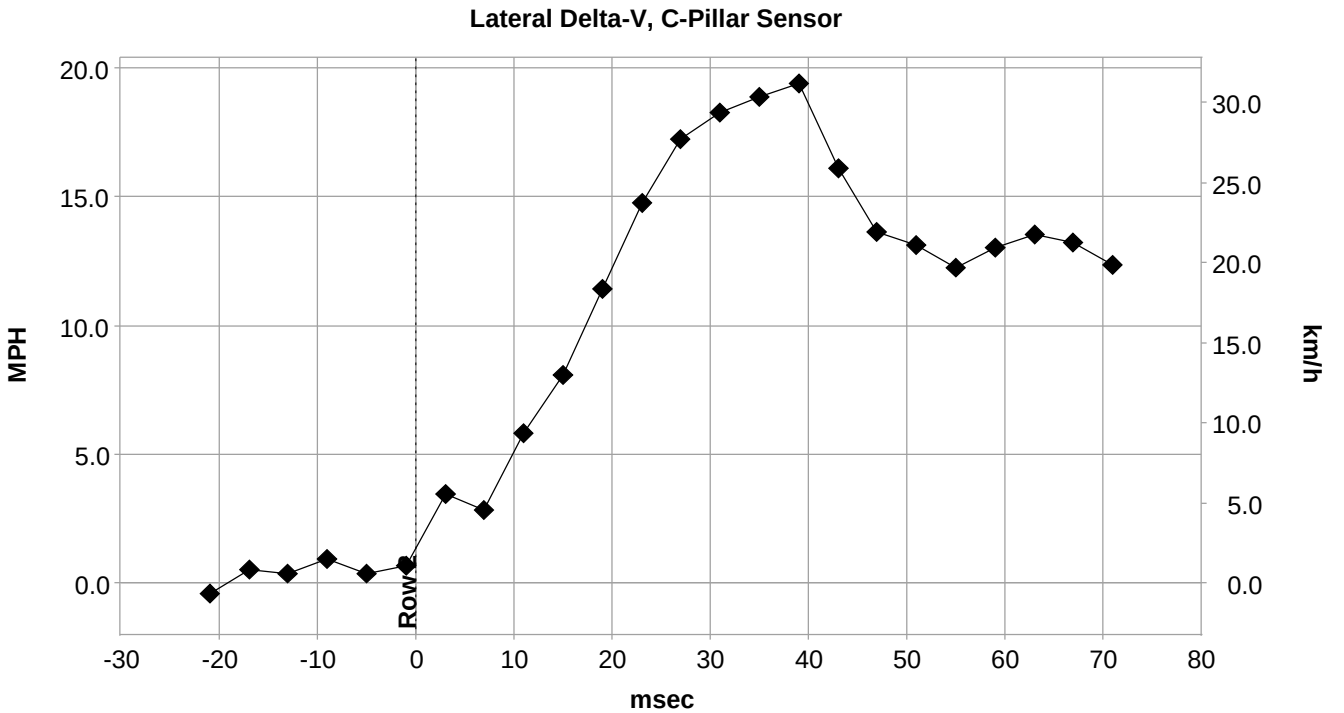
Recording Status, Side Crash Info.	Complete
Crash Type	Side Crash
TRG Count (times)	3
Recorded Side	Passenger's Side
Previous Crash Type	Frontal/Rear
Time from Pre-Crash TRG (msec)	26
Linked Pre-Crash Page	1
Time to Deployment Command, B-Pillar Sensor (msec)	11
Time to Deployment Command, C-Pillar Sensor (msec)	0

Lateral Crash Pulse (Most Recent Event, TRG 3 - table 1 of 2)

Recording Status, Time Series Data	Complete
Time from TRG to Next Sample (msec)	3
Max Lateral Delta-V, B-Pillar Sensor (MPH [km/h])	-11.6 [-18.6]
Max Lateral Delta-V, C-Pillar Sensor (MPH [km/h])	19.4 [31.2]






Lateral Delta-V, C-Pillar Sensor
MPH
km/h
msec
20.0
15.0
10.0
5.0
0.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-30
-20
-10
0
10
20
30
40
50
60
70
80

Lateral Crash Pulse (Most Recent Event, TRG 3 - table 2 of 2)

Time (msec)	Lateral Delta-V, Airbag ECU Sensor (MPH [km/h])	Lateral Delta-V, B-Pillar Sensor (MPH [km/h])	Lateral Delta-V, C-Pillar Sensor (MPH [km/h])
-21	-0.1 [-0.1]	0.0 [0.0]	-0.4 [-0.7]
-17	-0.1 [-0.1]	0.8 [1.2]	0.5 [0.8]
-13	-0.2 [-0.2]	0.5 [0.8]	0.3 [0.6]
-9	-0.2 [-0.3]	0.4 [0.6]	0.9 [1.5]
-5	-0.2 [-0.4]	0.0 [0.0]	0.3 [0.6]
-1	-0.3 [-0.5]	-0.3 [-0.4]	0.7 [1.1]
3	-0.6 [-0.9]	0.6 [1.0]	3.4 [5.5]
7	-0.8 [-1.4]	2.3 [3.7]	2.8 [4.6]
11	-1.0 [-1.5]	4.0 [6.4]	5.8 [9.4]
15	-1.1 [-1.8]	4.0 [6.4]	8.1 [13.0]
19	-1.2 [-1.9]	3.2 [5.2]	11.4 [18.3]
23	-1.2 [-1.9]	2.7 [4.3]	14.7 [23.7]
27	-1.2 [-1.9]	2.4 [3.9]	17.2 [27.7]
31	-0.9 [-1.4]	0.5 [0.8]	18.3 [29.4]
35	-1.4 [-2.2]	1.5 [2.5]	18.9 [30.3]
39	-1.9 [-3.0]	4.9 [7.9]	19.4 [31.2]
43	-2.5 [-3.9]	4.1 [6.6]	16.1 [25.9]
47	-3.0 [-4.8]	0.3 [0.4]	13.6 [21.9]
51	-3.5 [-5.6]	-1.5 [-2.5]	13.1 [21.1]
55	-3.8 [-6.0]	-5.4 [-8.7]	12.3 [19.7]
59	-4.1 [-6.5]	-11.6 [-18.6]	13.0 [21.0]
63	-4.3 [-6.9]	-11.2 [-18.0]	13.5 [21.8]
67	-4.3 [-6.9]	-8.4 [-13.5]	13.2 [21.2]
71	-4.2 [-6.8]	-7.2 [-11.6]	12.3 [19.9]

DTCs Present at Time of Event (Most Recent Event, TRG 3)

Recording Status, Diagnostic	Complete
Ignition Cycle Since DTC was Set (times)	0
Airbag Warning Lamp ON Time Since DTC was Set (min)	0
Diagnostic Trouble Codes	None

Pre-Crash Data, 1 Sample (Most Recent Event, TRG 3)

Recording Status, Pre-Crash/Occupant	Complete
Time from Pre-Crash to TRG (msec)	400
Buckle Switch, Left Seat	Buckled
Buckle Switch, Right Seat	Unbuckled
Occupancy Status, Passenger	Not Occupied
Seat Position, Driver	Rearward
Shift Position	Drive

Pre-Crash Data, -5 to 0 seconds (Most Recent Event, TRG 3)

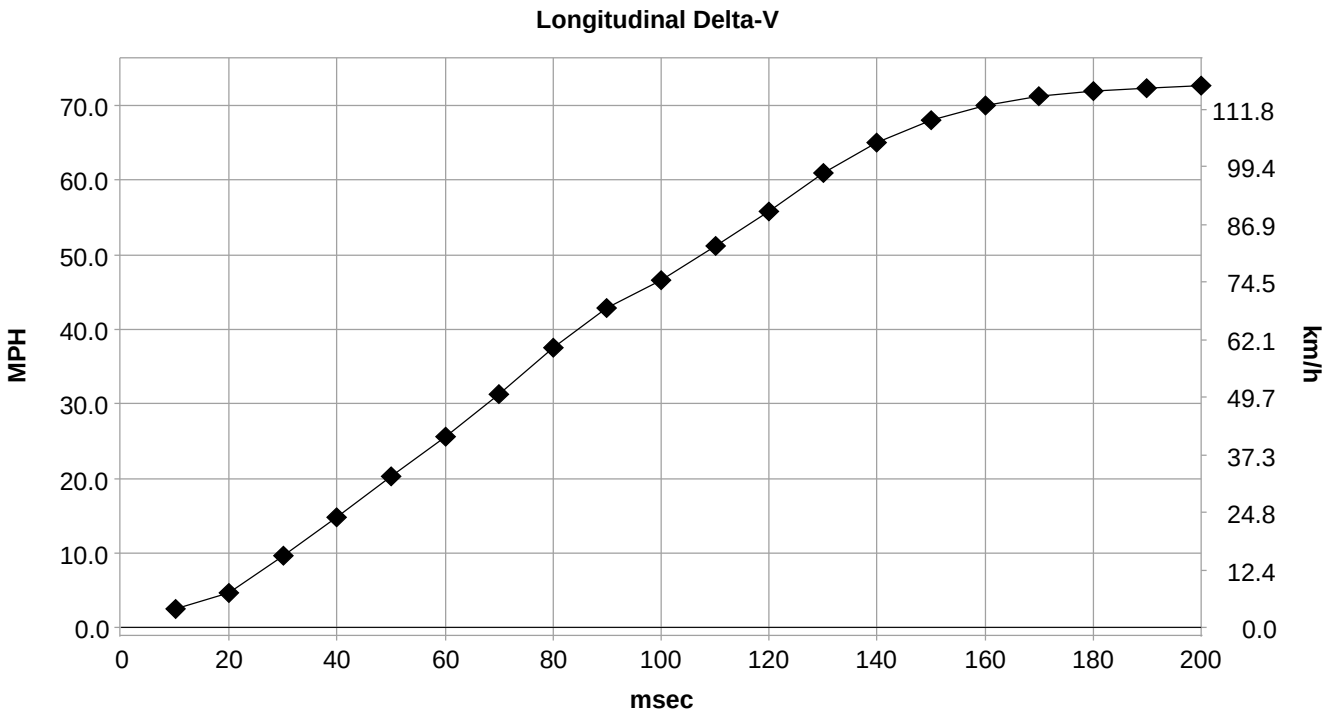
Time (sec)	-4.4	-3.4	-2.4	-1.4	-0.4	0 (TRG)
Vehicle Speed (MPH [km/h])	13.7 [22]	12.4 [20]	11.2 [18]	8.7 [14]	6.2 [10]	5 [8]
Brake Switch	ON	ON	ON	ON	ON	ON
Accelerator Rate (V)	0.78	0.78	0.78	0.78	0.78	0.78
Engine RPM (RPM)	0	0	0	0	0	0

System Status at Event (1st Prior Event, TRG 2)

Recording Status, Front/Rear Crash Info.	Complete
Crash Type	Front/Rear Crash
TRG Count (times)	2
Previous Crash Type	No Event
Time from Pre-Crash TRG (msec)	0
Linked Pre-Crash Page	1
Time to Deployment Command, Front Airbag, Driver (msec)	Not Commanded
Time to Deployment Command, Front Airbag, Passenger (msec)	Not Commanded
Event Severity Status, Driver	N/A
Event Severity Status, Passenger	N/A
Time to Deployment Command, Pretensioner (msec)	Not Commanded

Longitudinal Crash Pulse (1st Prior Event, TRG 2 - table 1 of 2)

Recording Status, Time Series Data	Complete
Max Longitudinal Delta-V (MPH [km/h])	72.7 [116.9]



Longitudinal Crash Pulse (1st Prior Event, TRG 2 - table 2 of 2)

Time (msec)	Longitudinal Delta-V (MPH [km/h])
10	2.6 [4.1]
20	4.7 [7.6]
30	9.6 [15.4]
40	14.8 [23.9]
50	20.2 [32.5]
60	25.5 [41.1]
70	31.4 [50.5]
80	37.5 [60.4]
90	42.8 [68.8]
100	46.5 [74.9]
110	51.1 [82.2]
120	55.8 [89.8]
130	60.8 [97.9]
140	65.0 [104.7]
150	68.0 [109.5]
160	69.9 [112.5]
170	71.1 [114.5]
180	71.9 [115.7]
190	72.3 [116.4]
200	72.7 [116.9]

DTCs Present at Time of Event (1st Prior Event, TRG 2)

Recording Status, Diagnostic	Complete
Ignition Cycle Since DTC was Set (times)	0
Airbag Warning Lamp ON Time Since DTC was Set (min)	0
Diagnostic Trouble Codes	None

Pre-Crash Data, 1 Sample (1st Prior Event, TRG 2)

Recording Status, Pre-Crash/Occupant	Complete
Time from Pre-Crash to TRG (msec)	400
Buckle Switch, Left Seat	Buckled
Buckle Switch, Right Seat	Unbuckled
Occupancy Status, Passenger	Not Occupied
Seat Position, Driver	Rearward
Shift Position	Drive

Pre-Crash Data, -5 to 0 seconds (1st Prior Event, TRG 2)

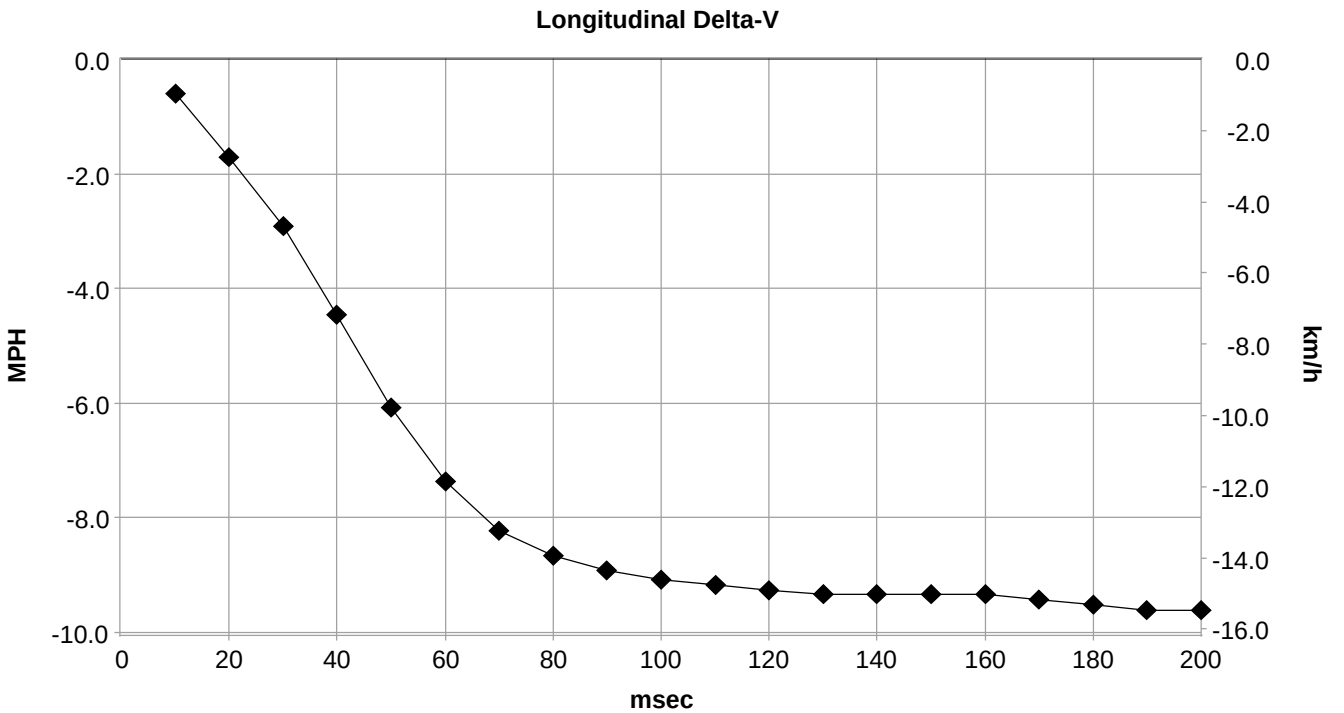
Time (sec)	-4.4	-3.4	-2.4	-1.4	-0.4	0 (TRG)
Vehicle Speed (MPH [km/h])	13.7 [22]	12.4 [20]	11.2 [18]	8.7 [14]	6.2 [10]	5 [8]
Brake Switch	ON	ON	ON	ON	ON	ON
Accelerator Rate (V)	0.78	0.78	0.78	0.78	0.78	0.78
Engine RPM (RPM)	0	0	0	0	0	0

System Status at Event (2nd Prior Event, TRG 1)

Recording Status, Front/Rear Crash Info.	Complete
Crash Type	Front/Rear Crash
TRG Count (times)	1
Previous Crash Type	No Event
Time from Pre-Crash TRG (msec)	0
Linked Pre-Crash Page	0
Time to Deployment Command, Front Airbag, Driver (msec)	Not Commanded
Time to Deployment Command, Front Airbag, Passenger (msec)	Not Commanded
Event Severity Status, Driver	N/A
Event Severity Status, Passenger	N/A
Time to Deployment Command, Pretensioner (msec)	Not Commanded

Longitudinal Crash Pulse (2nd Prior Event, TRG 1 - table 1 of 2)

Recording Status, Time Series Data	Complete
Max Longitudinal Delta-V (MPH [km/h])	-9.6 [-15.4]



Longitudinal Crash Pulse (2nd Prior Event, TRG 1 - table 2 of 2)

Time (msec)	Longitudinal Delta-V (MPH [km/h])
10	-0.6 [-1.0]
20	-1.7 [-2.8]
30	-2.9 [-4.7]
40	-4.5 [-7.2]
50	-6.1 [-9.8]
60	-7.4 [-11.9]
70	-8.2 [-13.2]
80	-8.7 [-13.9]
90	-8.9 [-14.3]
100	-9.1 [-14.6]
110	-9.2 [-14.8]
120	-9.3 [-14.9]
130	-9.3 [-15.0]
140	-9.3 [-15.0]
150	-9.3 [-15.0]
160	-9.3 [-15.0]
170	-9.4 [-15.2]
180	-9.5 [-15.3]
190	-9.6 [-15.4]
200	-9.6 [-15.4]

DTCs Present at Time of Event (2nd Prior Event, TRG 1)

Recording Status, Diagnostic	Complete
Ignition Cycle Since DTC was Set (times)	0
Airbag Warning Lamp ON Time Since DTC was Set (min)	0
Diagnostic Trouble Codes	None

Pre-Crash Data, 1 Sample (2nd Prior Event, TRG 1)

Recording Status, Pre-Crash/Occupant	Complete
Time from Pre-Crash to TRG (msec)	500
Buckle Switch, Left Seat	Buckled
Buckle Switch, Right Seat	Buckled
Occupancy Status, Passenger	AF05
Seat Position, Driver	Rearward
Shift Position	Drive

Pre-Crash Data, -5 to 0 seconds (2nd Prior Event, TRG 1)

Time (sec)	-4.5	-3.5	-2.5	-1.5	-0.5	0 (TRG)
Vehicle Speed (MPH [km/h])	32.3 [52]	32.3 [52]	31.1 [50]	29.8 [48]	26.1 [42]	22.4 [36]
Brake Switch	OFF	OFF	ON	ON	ON	ON
Accelerator Rate (V)	0.90	0.86	0.78	0.78	0.78	0.78
Engine RPM (RPM)	0	0	0	0	0	0

Hexadecimal Data

Data that the vehicle manufacturer has specified for data retrieval is shown in the hexadecimal data section of the CDR report. The hexadecimal data section of the CDR report may contain data that is not translated by the CDR program. The control module contains additional data that is not retrievable by the CDR system.

PIDs

PID	Data
00	BC 60 00 01
01	00
03	34 37 30 38 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30
04	FF FF FF FF
05	01
06	06
0A	01
0B	00
20	80 00 00 01
21	00 31
40	00 00 00 01
60	00 00 00 01
80	00 00 00 01
A0	00 00 00 01
C0	00 00 00 01
E0	C0 10 00 00
E1	12 12
E2	00 5B 19 11 00
EC	FF

EEPROM

Address	Data (-- = data not imaged from ECU) (** = no response from ECU)
0	-- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --
10	-- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --
20	-- -- -- -- -- -- -- -- -- -- -- -- -- -- 00 00
30	00 00 00 00 7F FD 00 00 A5 20 00 06 00 00 -- --
40	-- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --
50	-- -- 11 21 01 49 14 00 55 14 00 61 14 00 65 14
60	68 16 68 17 05 00 00 55 00 00 00 00 00 00 00 00
70	00 00 00 00 00 00 00 00 00 55 10 01 01 11 14 00
80	15 14 00 1D 14 00 25 14 29 14 2D 14 04 00 00 55
90	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
A0	00 55 -- -- 07 0D 0E 12 13 0F 0A 05 03 02 01 01
B0	01 00 00 00 01 01 01 00 01 86 00 55 00 01 E0 00
C0	FE FE 00 55 E2 E7 C7 C3 C1 C2 BC B8 C3 D4 CB C9
D0	C5 CF DD EA F2 F7 FB FC F2 48 00 55 00 02 E4 00
E0	FE FE 00 55 -- -- 00 06 FE FF FD FE 07 0D 0D 00
F0	FA FC FE F1 08 1A FA E2 F2 E2 D0 03 16 09 FB 0B
100	FE 07 F9 04 20 F9 23 1A 27 27 1D 0C 07 06 DA E3
110	FA F6 09 06 FC F6 03 02 04 02 03 05 0F 0F 07 09
120	03 00 00 F0 1D 1D 21 1F 1C 11 12 0D 00 FC 00 00
130	00 00 30 55 00 03 04 1A 0B 00 40 55 00 00 00 00
140	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
150	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
160	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
170	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
180	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
190	00 00

Disclaimer of Liability

The users of the CDR product and reviewers of the CDR reports and exported data shall ensure that data and information supplied is applicable to the vehicle, vehicle's system(s) and the vehicle ECU. Robert Bosch LLC and all its directors, officers, employees and members shall not be liable for damages arising out of or related to incorrect, incomplete or misinterpreted software and/or data. Robert Bosch LLC expressly excludes all liability for incidental, consequential, special or punitive damages arising from or related to the CDR data, CDR software or use thereof.

IMPORTANT NOTICE: Robert Bosch LLC and the manufacturers whose vehicles are accessible using the CDR System urge end users to use the latest production release of the Crash Data Retrieval system software when viewing, printing or exporting any retrieved data from within the CDR program. Using the latest version of the CDR software is the best way to ensure that retrieved data has been translated using the most current information provided by the manufacturers of the vehicles supported by this product.

CDR File Information

User Entered VIN/Frame Number	JTKDE3B75A0319659
User	Inv. Cowan #170
Case Number	15-062138
EDR Data Imaging Date	06/30/2015
Crash Date	06/25/2015
Filename	JTKDE3B75A0319659_ACM 2010 SCION 15-062138.CDRX
Saved on	Tuesday, June 30 2015 at 14:08:12
Collected with CDR version	Crash Data Retrieval Tool 15.0
Reported with CDR version	Crash Data Retrieval Tool 15.0
EDR Device Type	Airbag Control Module
Event(s) recovered	Front/Rear (1)

Comments

Imaged at Chattanooga Police Service Center, ACM removed, desktop download. NTSB Agent Jane Foster present.

Data Limitations

CDR Record Information:

- Due to limitations of the data recorded by the airbag ECU, such as the resolution, data range, sampling interval, time period of the recording, and the items recorded, the information provided by this data may not be sufficient to capture the entire crash.
- Pre-Crash data is recorded in discrete intervals. Due to different refresh rates within the vehicle's electronics, the data recorded may not be synchronous to each other.
- Airbag ECU data should be used in conjunction with other physical evidence obtained from the vehicle and the surrounding circumstances.
- If the airbags did not deploy or the pretensioners did not operate during an event that meets a specified recording threshold, it is called a Non-Deployment Event. Data from a Non-Deployment Event can be overwritten by a succeeding event that meets the specified recording threshold. If the airbag(s) deploy or the pretensioners are operated, it is called a Deployment Event. Deployment Event data cannot be overwritten or deleted by the airbag ECU following that event.
- If power supply to the airbag ECU is lost during an event, all or part of the data may not be recorded.
- "Diagnostic Trouble Codes" are information about faults when a recording trigger is established. Various diagnostic trouble codes could be set and recorded due to component or system damage during an accident.
- The airbag ECU records only diagnostic information related to the airbag system. It does not record diagnostic information related to other vehicle systems.
- The TaSCAN, Global TechStream, or Intelligent Tester II devices (or any other Toyota genuine diagnostic tool) can be used to obtain detailed information on the diagnostic trouble codes from the airbag system, as well as diagnostic information from other systems. However, in some cases, the diagnostic trouble codes of the airbag system recorded by the airbag ECU when the event occurred may not match the diagnostic trouble codes read out when the diagnostic tool is used.

General Information:

- The data recording specifications of Toyota's airbag ECUs are divided into the following seven categories. The specifications for 12EDR or later are designed to be compatible with NHTSA's 49CFR Part 563 rule.
  - 00EDR / 02EDR / 04EDR / 06EDR / 10EDR / 12EDR / 13EDR
- The airbag ECU records data for all or some of the following accident types: frontal crash, rear crash , side crash, and rollover events. Depending on the installed airbag ECU, data for side crash and/or rollover events may not be recorded.
- The airbag ECU records post-crash data and may record pre-crash data in the event of a frontal/rear crash. In addition, it may record post-crash data in the event of a side crash or rollover.
- The airbag ECU has the following recording pages (memory maps) for each accident type to store event data: three pages for frontal or rear crash, one page for a side crash (if airbag ECU is applicable) , and one page for rollover events. (if airbag ECU is applicable)
- The data recorded by the airbag ECU in the event of a frontal/rear crash includes information that indicates the sequence and interval of each previously-occurring frontal/rear crash event.
  - Time from Previous TRG
  - TRG Count
- The point in time at which the recording trigger is established is regarded as time zero for the recorded data. For the time indicated in "Lateral Delta-V", "Roll Angle" or "Lateral Acceleration", the first sampling point after the recording trigger establishment is regarded as time zero. The time zero of the data and the recording trigger establishment do not always occur simultaneously.
- The recording trigger judgment threshold value differs depending on the collision type (i.e., frontal crash, rear crash, side crash, or rollover event).
- Some of the data recorded by the airbag ECU is transmitted to the airbag ECU from various vehicle control modules by the vehicle's Controller Area Network (CAN).

- In some cases, the airbag ECU part number printed on the ECU label may not match the airbag ECU part number that the CDR tool reports. The part number retrieved by the CDR tool should be considered as the official ECU part number.
- The sampling interval of "Roll Angle" and "Lateral Acceleration" is 8 [ms] or 128 [ms]. A field indicating the sampling interval is not provided. The graph scaling can assist with derterming the sample rate. The time zero is indicated by count (0).
- "Prior Event" is the event that occurred before the "1st Prior Event" that reached the greatest MAX Delta-V. Therefore, "Prior Event" is not always the prior event of "1st Prior Event".

Data Element Sign Convention:
The following table provides an explanation of the sign notation for data elements that may be included in this CDR report.

Data Element Name	Positive Sign Notation Indicates
Max. Longitudinal Delta-V	Forward
Longitudinal Delta-V	Forward
Roll Angle Peak	Clockwise Rotation
Roll Angle	Clockwise Rotation
Lateral Acceleration , Airbag ECU Sensor *	Right to Left

* For sensing a rollover

Data Definitions:
1)

- The "ON" setting for the "Freeze Signal" indicates a state in which the non-volatile memory can not be overwritten or deleted by the airbag ECU. After "Freeze Signal" has been turned ON, subsequent events will not be recorded.
- "Recording Status" indicates a state in which all recorded event data has been written into the non-volatile memory, or a state in which this process was interrupted and not fully written into the non-volatile memory. If "Recording Status" is "Incomplete", recorded event data may not be valid.
- "Time to Deployment Command" indicates the time between recording trigger establishment and the determination of airbag deployment. This value may differ from the actual time it takes for the airbag to fully deploy.
- Even if an airbag/pretensioner did not deploy due to the "front passenger airbag disable switch and/or "RSCA Disable Switch" in the ON position or other disabling criteria are met, the "Time to deployment command" data element for that airbag/pretensioner may still be recorded.
- "Engine RPM" indicates the number of engine revolutions, not the number of motor revolutions. The recorded value has an upper limit of 6,000 rpm. Resolution is 400 rpm and the value is rounded down and recorded. For example, if the actual engine speed is 799 rpm, the recorded value will be 400 rpm.
- The upper limit for the recorded "Vehicle Speed" value is 126 km/h (78.3mph). Resolution is 2km/h (1.2mph) and the value is rounded down and recorded. The accuracy of the "Vehicle Speed" value can be affected by various factors. These include, but not limited, to the following.
  - Significant changes in the tire's rolling radius
  - Wheel lock and wheel slip
- The "Accelerator Rate" value is recorded as a voltage or level. In the case of voltage, the voltage increases as the driver depresses the accelerator. In case of the level, the following three levels are recorded.
  - FULL / MIDDLE / OFF
- "Accelerator Rate" may be recorded as "OFF" even if the accelerator pedal is depressed lightly. In addition, "FULL" may be recorded when the accelerator pedal is depressed strongly but not fully.
- The "Drive" setting for the "Shift Position" value indicates the shift position state is other than "R,"(Reverse), "N" (Neutral), or "P" (Park). It also includes communication disruption. Regardless of an actual shift position, "Drive" is always set for M/T vehicles because the shift position signal is not available.
- Depending on the type of occupant sensor installed in the vehicle, one of the following three recording formats for "Occupancy Status, Passenger" will be utilized.
  - Occupied / Not Occupied
  - Adult / Child / Not Occupied
  - AM50 / AF05 / Child / Not Occupied
- Resolution of the "Air Bag Warning Lamp ON Time Since DTC was Set" is 15 minutes, and the value is rounded down and recorded.
- "Longitudinal Delta-V" indicates the change in forward speed after establishment of the recording trigger. This does not refer to vehicle speed, and it does not include the change in speed during the period from the start of the actual collision to establishment of the recording trigger.
- "Roll Angle peak" may not always match the peak value within the "Roll Angle" sampling points due to differences in data calculation method.
- For "Lateral Delta-V", the sensor location (B-pillar, front door, C-pillar, and slide door) shows the outline of a typical sensor position. Sensory location can be confirmed using the repair manual.
- "TRG Count" indicates the number of frontal/rear recording triggers that have been established. The calculated value does not include the number of times side or rollover recording triggers have been established. The sequence in which each frontal/rear event occurred can be verified from the "TRG Count". The lesser the "TRG Count" value, the older the data. The upper limit for the recorded value is 255 times. When more than one event reaches the upper limit, the actual "TRG Count" may be greater than what is displayed for that event.
- Resolution of the "Time from Pre-Crash to TRG" is 100 [ms], and the value is rounded down and recorded.
- For "Time from Previous TRG", the recording trigger of side crash and rollover is not considered. The upper limit for the recorded value is 5000 [ms] or 5100 [ms] depending on the ECU part number. Resolution is 20 [ms] and the value is rounded down and recorded. When it's displayed as 5100ms, the actual "Time from Previous TRG" may be longer than what is displayed for that event.
- If 2 or more frontal/rear events occur successively within a period of 5000ms (or 5120ms for ECUs with 1.024 data sampling intervals), the actual sample time before the trigger is not displayed for subsequent events. The sample time before trigger will only be displayed for the

first event of the successive events. For subsequent events (i.e second event or later events), the pre-crash "Time (sec)" data is replaced by integers -5 through -1 and the heading "Time (sec)" is replaced with "Sample Count". The time between "Sample Count" integers (-5 through -1) cannot be determined. The time between the last integer and TRG cannot be determined.

- "Pre-Crash Data Status" indicates data communication status of the vehicle. If communication disruption or other failure is occur, "Invalid" is set. Moreover, "Invalid" is set for some M/T vehicles because the shift position signal is not transmitted for them even if the other data is valid.

05002_ToyotaDENSO_r023

System Status at Time of Retrieval

ECU Part Number	89170-21100
ECU Generation	02EDR
Recording Status, All Pages	Complete
Diagnostic Trouble Codes Exist	No
Total Number of Front/Rear Crash Events	1
Freeze Signal	ON

Front/Rear Event Record Summary at Retrieval

Events Recorded	TRG Count	Crash Type	Time (msec)	Event & Crash Pulse Data Recording Status
Most Recent Frontal/Rear Event	1	Front/Rear Crash	0	Complete (Front/Rear Page 0)

System Status at Front Airbag Deployment

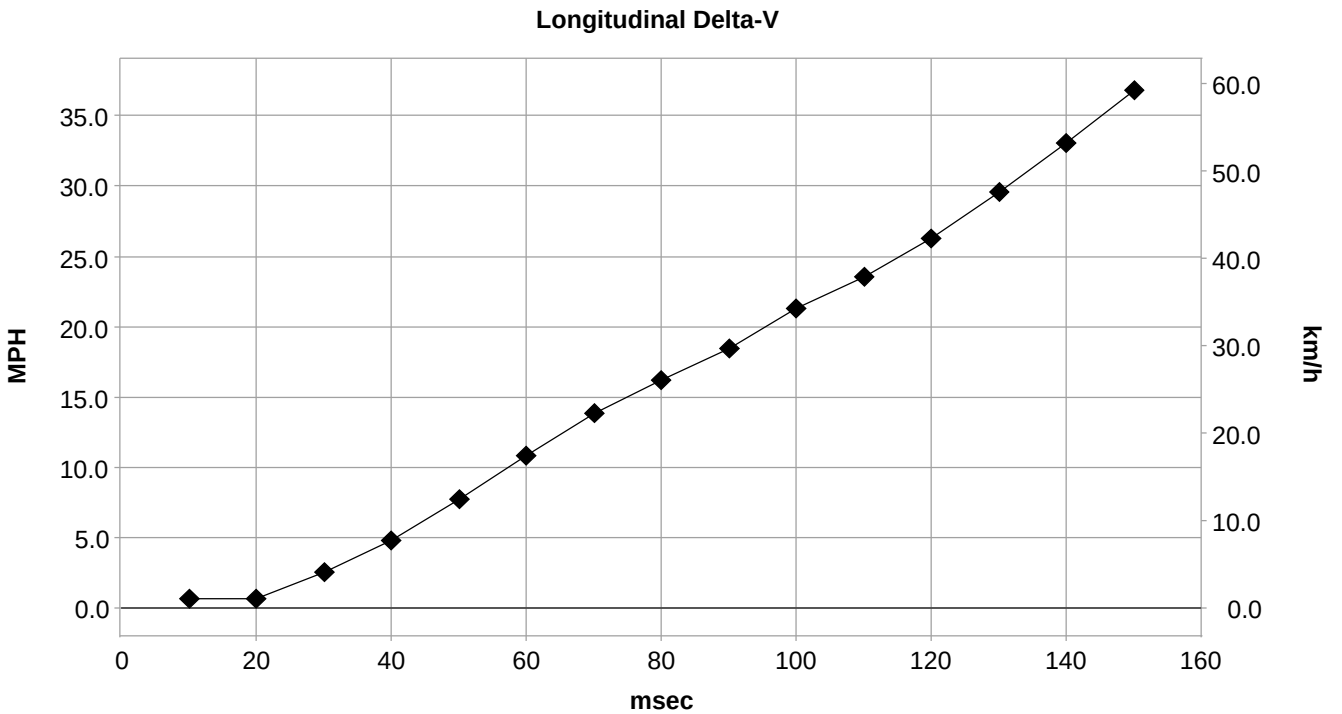
Time to Deployment Command, Front Airbag, Driver (msec)	0
Time to Deployment Command, Front Airbag, Passenger (msec)	0
Event Severity Status, Driver	N/A
Event Severity Status, Passenger	N/A

System Status at Event (Most Recent Frontal/Rear Event, TRG 1)

Recording Status, Front/Rear Crash Info.	Complete
TRG Count	1
Time From Previous TRG (msec)	5000 or greater
Buckle Switch, Driver	Buckled
Buckle Switch, Passenger	Buckled
Occupancy Status, Passenger	AF05
Seat Position, Driver	Rearward

Longitudinal Crash Pulse (Most Recent Frontal/Rear Event, TRG 1 - table 1 of 2)

Max Longitudinal Delta-V (MPH [km/h])	36.8 [59.3]



Longitudinal Crash Pulse (Most Recent Frontal/Rear Event, TRG 1 - table 2 of 2)

Time (msec)	Longitudinal Delta-V (MPH [km/h])
10	0.6 [1.0]
20	0.6 [1.0]
30	2.6 [4.1]
40	4.8 [7.8]
50	7.7 [12.4]
60	10.8 [17.4]
70	13.8 [22.2]
80	16.2 [26.0]
90	18.4 [29.7]
100	21.3 [34.3]
110	23.6 [37.9]
120	26.2 [42.2]
130	29.6 [47.6]
140	33.1 [53.3]
150	36.8 [59.3]

DTCs Present at Start of Event (Most Recent Frontal/Rear Event, TRG 1)

Ignition Cycle Since DTC was Set (times)	0
Airbag Warning Lamp ON Time Since DTC was Set (min)	0
Diagnostic Trouble Codes	None

Hexadecimal Data

Data that the vehicle manufacturer has specified for data retrieval is shown in the hexadecimal data section of the CDR report. The hexadecimal data section of the CDR report may contain data that is not translated by the CDR program. The control module contains additional data that is not retrievable by the CDR system.

PIDs

PID	Data
00	BC 00 00 01
01	00
03	32 31 31 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30
04	FF FF FF FF
05	02
06	02
20	80 00 00 01
21	00 01
40	00 00 00 01
60	00 00 00 01
80	00 00 00 01
A0	00 00 00 01
C0	00 00 00 01
E0	C0 10 00 00
E1	19 19
E2	00 5B 1F 11 00
EC	FF

EEPROM

Address	Data (-- = data not imaged from ECU) (** = no response from ECU)
0	-- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --
10	-- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --
20	-- -- -- -- -- -- -- -- -- -- -- -- -- -- 00 00
30	00 00 FF FF 00 80 00 00 A5 00 00 02 00 00 FF FF
40	AA FA 24 00 00 EE 00 EB 00 E5 00 E3 00 E4 00 EA
50	00 EB 00 E5 00 EB 00 E7 00 E1 00 DF 00 DD 00 EA
60	00 FA 00 01 00 00 00 00 00 00 00 00 00 00 00 00
70	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
80	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
90	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
A0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
B0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
C0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
D0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
E0	00 00 00 00 00 00 00 00

Disclaimer of Liability

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