

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	3HGGK5G59FM766551
User	
Case Number	
EDR Data Imaging Date	10/01/2015
Crash Date	
Filename	2015 HONDA FIT_3HGGK5G59FM766551_ACM.CDRX
Saved on	Thursday, October 1 2015 at 12:04:36
Collected with CDR version	Crash Data Retrieval Tool 16.2.1
Reported with CDR version	Crash Data Retrieval Tool 16.2.1
EDR Device Type	Airbag Control Module
Event(s) recovered	2

Comments

No comments entered.

Data Limitations

General Information:

These limitations are intended to assist you in reading the event data that has been imaged from the vehicle's SRS control unit. They are not intended to provide specific information regarding the interpretation of this data. Event data should be considered in conjunction with other available physical evidence from the vehicle and scene.

Honda and Acura passenger vehicles designated as 2013 or later model year production are designed to be compatible with the Bosch CDR tool. However, due to production variations during the 2012 model year, only certain 2012 model year vehicles are compatible with the Bosch CDR tool.

Recorded Crash Events:

Data for front, side, rear and rollover events can be recorded as either non-deployment or deployment events. Both types of events can contain pre-crash and crash data.

- A non-deployment event is recorded if the change in longitudinal or lateral velocity equals or exceeds 8km/h over a 150ms timeframe or another type of non-reversible deployable restraint device other than a front, side, or side curtain airbag (e.g. seatbelt pretensioner) is commanded to deploy. Except as indicated below, non-deployment events are not locked into memory and can be over-written by subsequent non-deployment or deployment events.
- A deployment event is recorded if front airbag(s), side airbag(s), or side curtain airbag(s) are commanded to deploy. Deployment events are locked into memory and cannot be over-written.

The SRS control unit typically records only one event. Two events can be recorded if the T0 (time zero) values for each event occur within 5 seconds of each other. T0 is established by whichever of the following occurs first: (1) the change in longitudinal velocity at the SRS control unit equals or exceeds 0.8km/h over a 20ms timeframe; (2) the change in lateral velocity at the SRS control unit equals or exceeds 0.8km/h over a 5ms timeframe; or (3) a commanded deployment of any type of non-reversible deployable restraint device (e.g. airbag or seatbelt pretensioner). Therefore, a non-deployment event can be recorded and locked if it occurs within 5 seconds of a deployment event.

Data:

- Data recorded by the SRS control unit and imaged by the CDR tool is displayed relative to T0, not the time at which the vehicle made contact with another vehicle or object.
- Pre-crash data is recorded at 2 samples per second starting 5 seconds before T0. The sampling interval between T-0.5 and T0 may be less than 0.5 seconds.
- Crash data is recorded at 100 samples per second from T0 to 250 milliseconds or T0 to TEnd (end of event) plus 30 milliseconds, whichever is shorter. TEnd occurs when the change in longitudinal and lateral velocity equals or falls below 0.8km/h over a 20ms timeframe.
- All data is displayed in SAE J211 sign convention unless otherwise noted in this document.
- Delta V, longitudinal reflects the change in velocity that the SRS control unit experienced in the longitudinal direction during the recorded portion of the event and is not the speed the vehicle was traveling before the event.
- Depending on the severity of the event and the accelerometer characteristics, saturation of the SRS control unit longitudinal or lateral accelerometers may occur, decreasing the recorded Delta V value.
- Time, accelerometer range exceeded is recorded if saturation of the SRS control unit longitudinal, lateral and/or normal (vertical) accelerometer occurs. The recorded data is the time at which the sensor range is first exceeded.

- Speed, vehicle indicated data accuracy can be affected by various factors, including but not limited to the following:
 - Significant changes in tire size from the factory setting
 - Wheel lockup
- Accelerator pedal position, percent full is the ratio of accelerator pedal position compared to the fully depressed position.
- PCM (Powertrain Control Module) derived accelerator pedal position, percent full may differ from the accelerator pedal position, percent full under circumstances such as brake override activation or cruise control system engagement. These circumstances are based on vehicle equipment application and vary by model.
- Steering input angle is recorded in 5 degree increments.
- Side air bag suppression system status, right front passenger is recorded when the vehicle is equipped with the Occupant Position Detection System (OPDS).
- Occupant size classification, right front passenger airbag suppressed data is recorded as yes (suppressed) if the front passenger seat weight sensor system determined the passenger seat was empty or occupied by a child-size occupant.
- EV mode data records the vehicle powertrain status, not a driver selected operation mode. EV mode is recorded as On when the vehicle is moving and the internal combustion engine is not operating. EV mode may be recorded as On or Off when the vehicle is stopped.
- If power to the SRS control unit is lost during an event, all or part of the data may not be recorded.

Roll Rate Data:

- Vehicle roll rate data is recorded separately from the non-deployment and deployment events as described above. Therefore, the T0 for the roll rate data may differ from the T0 for the other data in this report.
- Roll rate recording trigger (T0) is established by whichever of the following occurs first: (1) a rollover algorithm ON judgment (SRS control unit decision to command deployment), or (2) a change in relative roll angle at the SRS control unit equal to or exceeding 30 degrees (roll angle is not measured, but is calculated from the roll rate data).
- Once a recording trigger has been met, roll rate data is recorded for one rollover event at 10 samples per second from 1 second before to 2 seconds after T0. If a roll angle trigger is satisfied without a rollover algorithm ON judgment, the recorded roll rate data is unlocked and can be over-written by a subsequent rollover event. Roll rate data triggered by or recorded during a rollover algorithm ON judgment is locked into memory and cannot be over-written.
- If roll rate is detected at the SRS control unit during a non-deployment or deployment event but the recording trigger has not been satisfied, no roll rate data will be recorded. A graph of roll rate data will only be present in this report if roll rate data is recorded.

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. All directional references to sign notation are from the perspective of the driver when seated in the vehicle facing the direction of forward vehicle travel.

Data element name	Positive sign indicates
Longitudinal Acceleration	Forward direction acceleration
Delta-V, Longitudinal	Forward direction acceleration
Lateral Acceleration	Left to right direction acceleration
Delta-V, Lateral	Left to right direction acceleration
Normal (Vertical) Acceleration	Downward direction acceleration
Vehicle Roll Rate	Left to right (clockwise) rotation
Steering Input Angle*	Left Turn

*Not SAE J211 sign convention

Data Source:

All recorded data is measured and calculated within the SRS control unit except for the following parameters (if applicable) which are transmitted via the vehicle's communication network to the SRS control unit:

- Speed, vehicle indicated
- Accelerator pedal position, percent full
- Service brake
- ABS activity
- Stability control
- Steering input angle
- Engine RPM
- PCM derived accelerator pedal position, percent full
- EV mode

Depending on vehicle feature content, capability, or conditions described above, the following items may not be recorded. If these items are not recorded, they will not be present in this document.

- ABS activity
- Stability control
- Steering input angle
- PCM derived accelerator pedal position, percent full
- Side air bag suppression system status, right front passenger
- Vehicle roll rate
- Normal acceleration
- Time, accelerometer range exceeded (longitudinal, lateral or normal)
- EV mode

Hexadecimal Data:

All data that has been specified for imaging is shown in the hexadecimal data section of this report. However, not all of this data is translated by the CDR tool. The SRS control unit may contain additional data that is not retrievable by the CDR tool.

Data Imaging:

If the SRS control unit is imaged outside of the vehicle, ensure that it is not moved, tilted or turned while connected to the CDR tool.

Also, after imaging is complete, wait 3 minutes after removing the CDR tool before moving the SRS control unit. Not following this guideline could cause current non-deployment event data to be overwritten and a new event to be recorded. Current fault status could also be altered if the SRS control unit is imaged outside of the vehicle.

04002_HondaSRS_F-CAN_r003

System Status at Retrieval

EDR Version	1.2.1.0
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System Status at Crash Judgment

Frontal Air Bag Suppression System Status, Right Front Passenger at 1st Front Crash Judgment	Actuation Permitted
Frontal Air Bag Suppression System Status, Right Front Passenger at 2nd Front Crash Judgment	No Crash Judgment
Frontal Air Bag Suppression System Status, Right Front Passenger at Left Side Crash Judgment	No Crash Judgment
Frontal Air Bag Suppression System Status, Right Front Passenger at Right Side Crash Judgment	Actuation Permitted
Frontal Air Bag Suppression System Status, Right Front passenger at Roll Over Judgment	No Crash Judgment

System Status at Event (Event Record 1)

Multi-Event, Number of Events (1, 2)	1
Complete File Recorded (Yes/No)	Yes
Ignition Cycle, Download	83
Maximum Delta-V, Longitudinal (MPH [km/h])	-30 [-48]
Time, Maximum Delta-V, Longitudinal (msec)	95.0
Maximum Delta-V, Lateral (MPH [km/h])	-11 [-18]
Time, Maximum Delta-V, Lateral (msec)	97.5
Time, Maximum Delta-V, Resultant (msec)	97.5
Time, Accelerometer Range Exceeded, Longitudinal (msec)	36.0
Time, Accelerometer Range Exceeded, Lateral (msec)	3.0
Time, Accelerometer Range Exceeded, Normal (msec)	0

Deployment Command Data (Event Record 1)

Pretensioner Deployment, Time to Fire, Driver (msec)	11
Pretensioner Deployment, Time to Fire, Right Front Passenger (msec)	11
Lap Pretensioner Deployment, Time to Fire, Driver (msec)	11
Frontal Air Bag Deployment, Time to Deploy First Stage, Driver (msec)	13
Frontal Air Bag Deployment, Time to Deploy First Stage, Right Front Passenger (msec)	11
Frontal Air Bag Deployment, Time to 2nd Stage, Driver (msec)	33
Frontal Air Bag Deployment, Time to 2nd Stage, Right Front Passenger (msec)	51
Safety Belt Adaptive Load Limiter, Time to Initiation, Right Front Passenger (msec)	0
Side Air Bag Deployment, Time to Deploy, Driver (msec)	0
Side Air Bag Deployment, Time to Deploy, Right Front Passenger (msec)	31
Side Curtain/Tube Air Bag Deployment, Time to Deploy, Driver Side (msec)	0
Side Curtain/Tube Air Bag Deployment, Time to Deploy, Right Side (msec)	30
Frontal Air Bag Deployment, nth Stage Disposal, Driver (Yes/No)	No
Frontal Air Bag Deployment, nth Stage Disposal, Right Front Passenger (Yes/No)	No

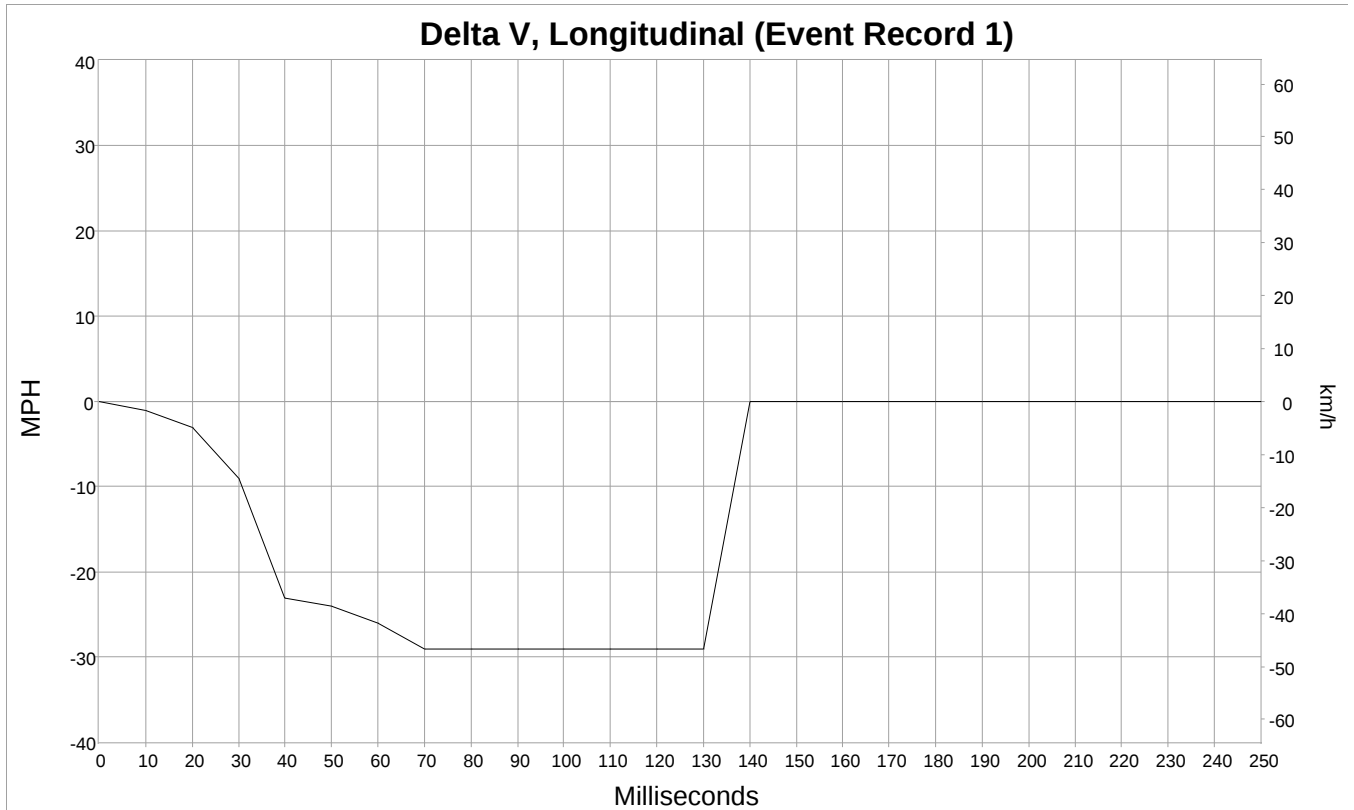
Pre-Crash Data -1 sec (Event Record 1)

Safety Belt Status, Driver	On
Safety Belt Status, Right Front Passenger	On
Seat Track Position Switch, Foremost, Status, Driver	No
Occupant Size Classification, Right Front Passenger Airbag Suppressed (Yes/No)	No
Frontal Air Bag Warning Lamp (On, Off)	Off
Ignition Cycle, Crash	82

Pre-Crash Data -5 to 0 sec [2 samples/sec] (Event Record 1)

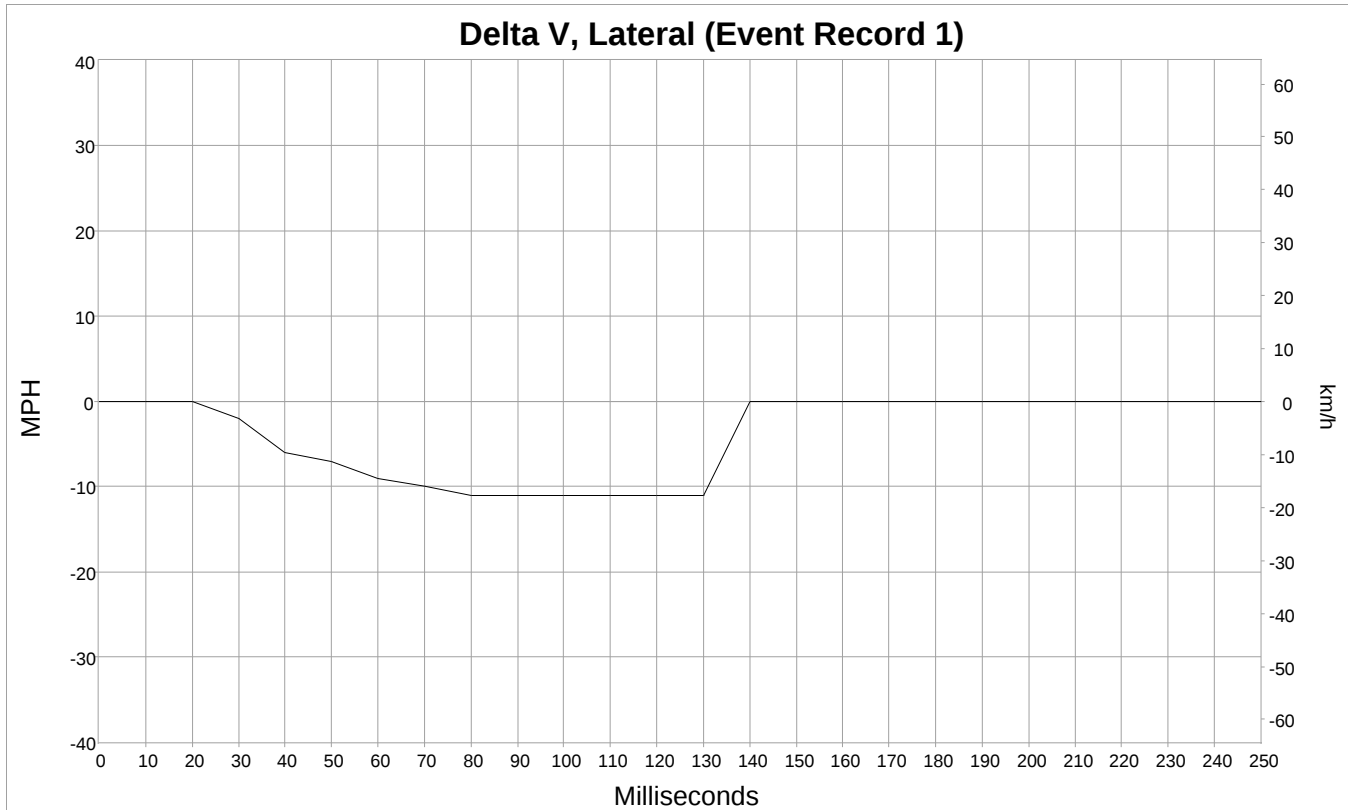
(the most recent sampled values are recorded prior to the event)

Time Stamp (sec)	Speed, Vehicle Indicated (MPH [km/h])	Accelerator Pedal Position, % full	Service Brake (On, Off)	ABS Activity (On, Off)	Stability Control (On, Off, Engaged)	Steering Input (deg)	Engine RPM	PCM Derived Accelerator Pedal Position, % full	EV Mode (On, Off)
-5.0	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-4.5	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-4.0	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-3.5	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-3.0	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-2.5	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-2.0	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-1.5	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-1.0	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-0.5	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
0.0	0 [0]	23	On	Off	On Non-Engaged	0	0	22	Off (Not EV Mode)



Longitudinal Delta V (Event Record 1)

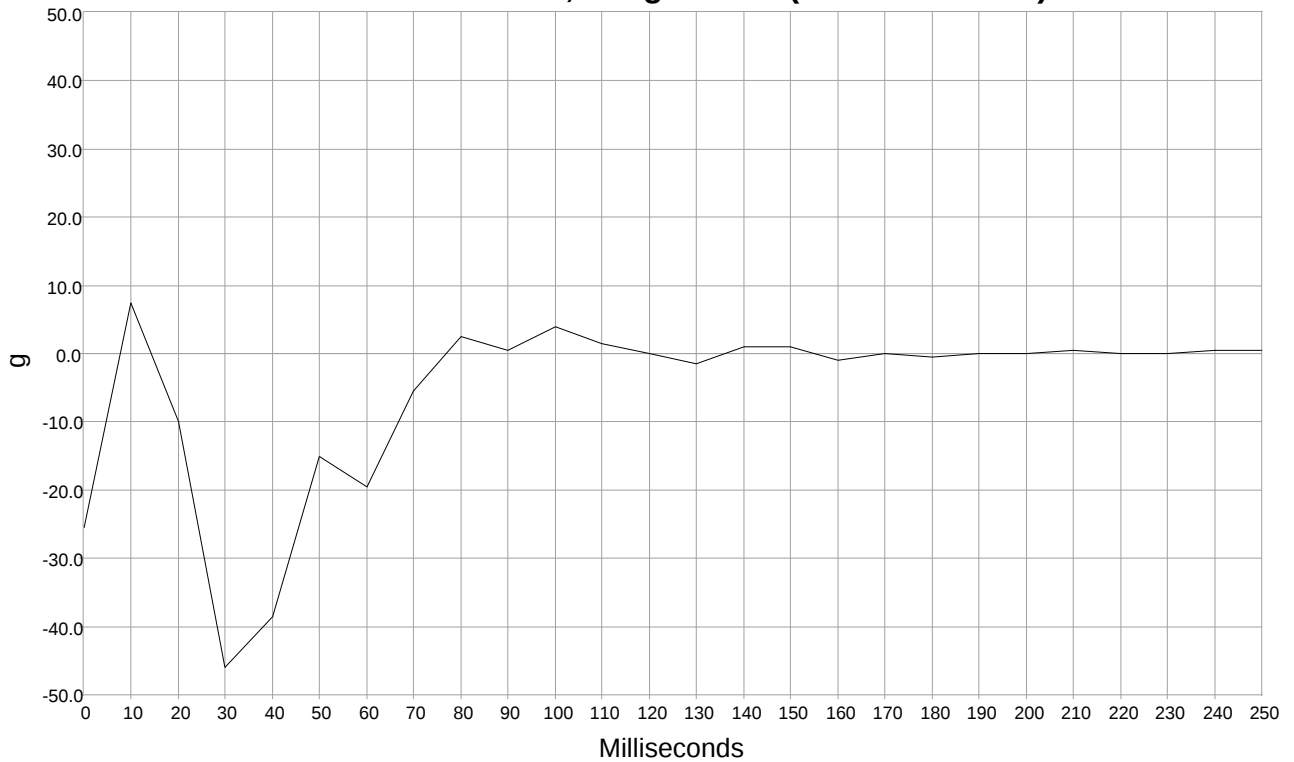
Time (msec)	MPH [km/h]
0	0 [0]
10	-1 [-2]
20	-3 [-5]
30	-9 [-15]
40	-23 [-37]
50	-24 [-38]
60	-26 [-42]
70	-29 [-46]
80	-29 [-47]
90	-29 [-47]
100	-29 [-47]
110	-29 [-47]
120	-29 [-46]
130	-29 [-46]
140	0 [0]
150	0 [0]
160	0 [0]
170	0 [0]
180	0 [0]
190	0 [0]
200	0 [0]
210	0 [0]
220	0 [0]
230	0 [0]
240	0 [0]
250	0 [0]



Lateral Delta V (Event Record 1)

Time (msec)	MPH [km/h]
0	0 [0]
10	0 [0]
20	0 [0]
30	-2 [-4]
40	-6 [-9]
50	-7 [-11]
60	-9 [-14]
70	-10 [-16]
80	-11 [-17]
90	-11 [-18]
100	-11 [-18]
110	-11 [-18]
120	-11 [-17]
130	-11 [-17]
140	0 [0]
150	0 [0]
160	0 [0]
170	0 [0]
180	0 [0]
190	0 [0]
200	0 [0]
210	0 [0]
220	0 [0]
230	0 [0]
240	0 [0]
250	0 [0]

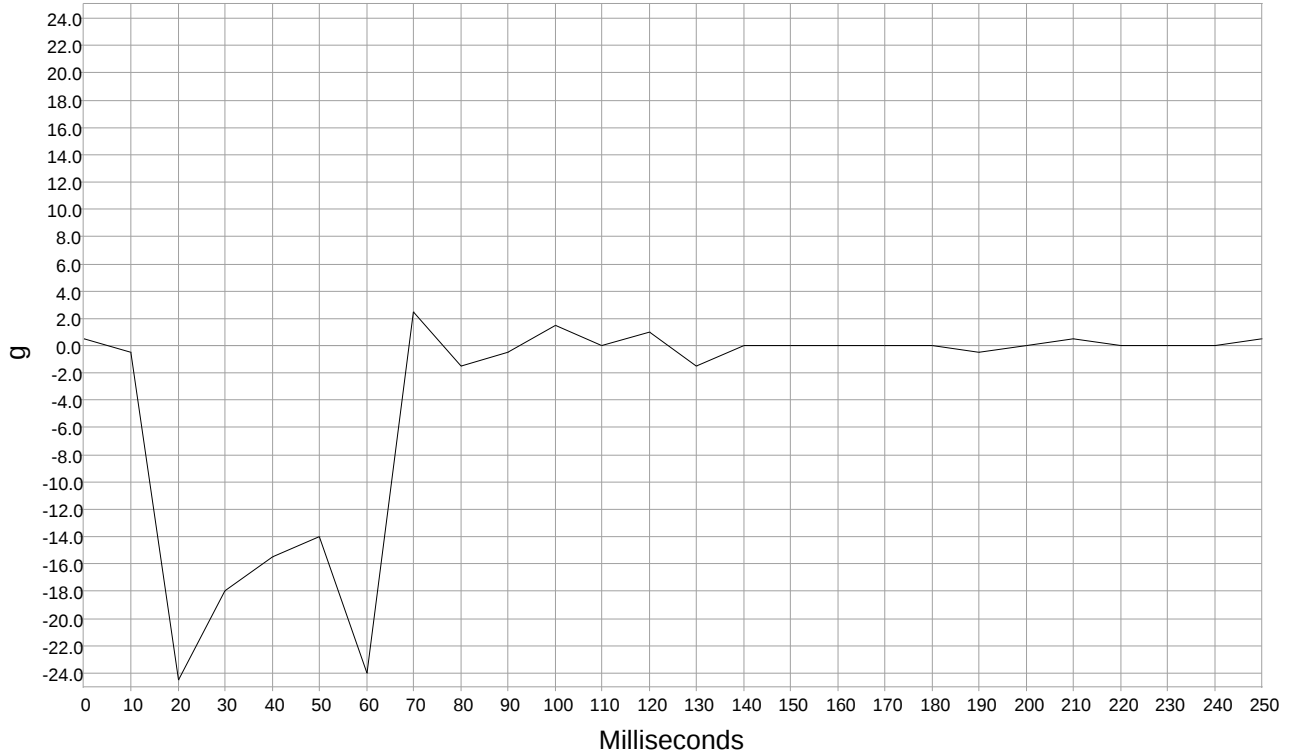
Acceleration, Longitudinal (Event Record 1)



Longitudinal Acceleration (Event Record 1)

Time (msec)	g
0	-25.5
10	7.5
20	-10.0
30	-46.0
40	-38.5
50	-15.0
60	-19.5
70	-5.5
80	2.5
90	0.5
100	4.0
110	1.5
120	0.0
130	-1.5
140	1.0
150	1.0
160	-1.0
170	0.0
180	-0.5
190	0.0
200	0.0
210	0.5
220	0.0
230	0.0
240	0.5
250	0.5

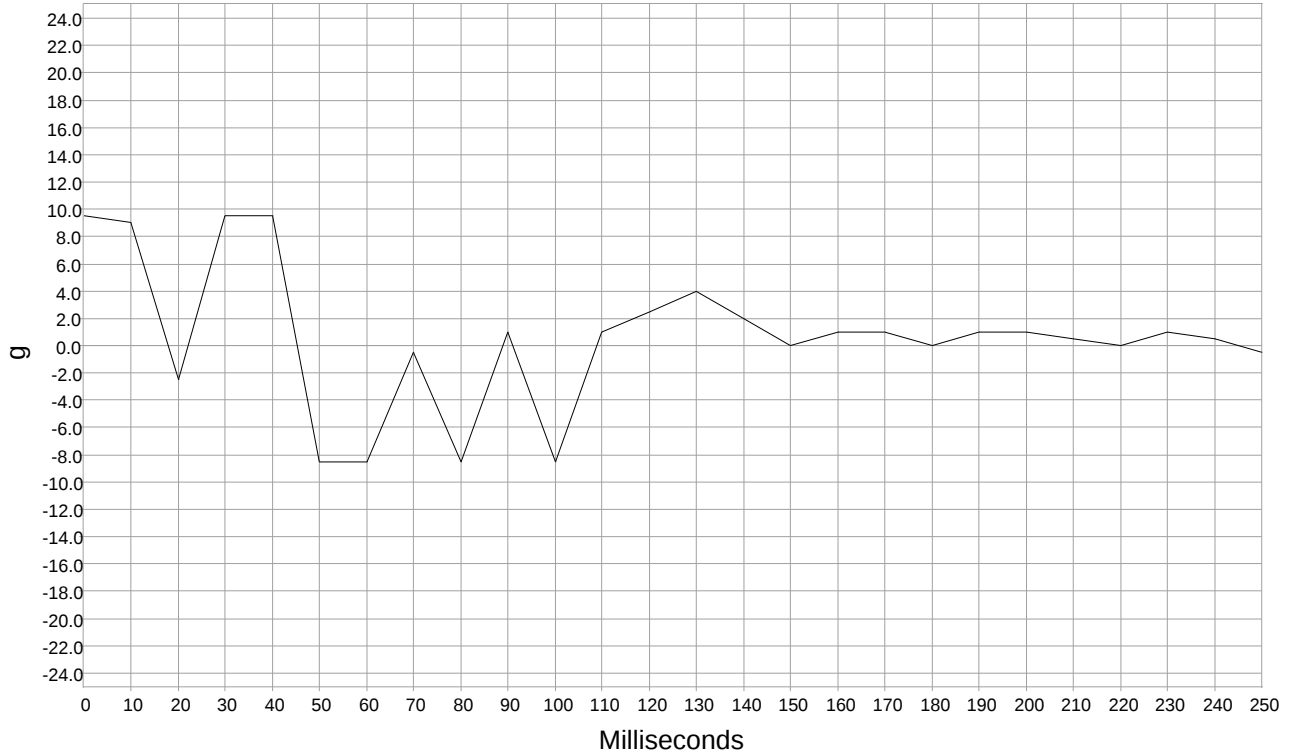
Acceleration, Lateral (Event Record 1)



Lateral Acceleration (Event Record 1)

Time (msec)	g
0	0.5
10	-0.5
20	-24.5
30	-18.0
40	-15.5
50	-14.0
60	-24.0
70	2.5
80	-1.5
90	-0.5
100	1.5
110	0.0
120	1.0
130	-1.5
140	0.0
150	0.0
160	0.0
170	0.0
180	0.0
190	-0.5
200	0.0
210	0.5
220	0.0
230	0.0
240	0.0
250	0.5

Acceleration, Normal (Event Record 1)



Normal Acceleration (Event Record 1)

Time (msec)	g
0	9.5
10	9.0
20	-2.5
30	9.5
40	9.5
50	-8.5
60	-8.5
70	-0.5
80	-8.5
90	1.0
100	-8.5
110	1.0
120	2.5
130	4.0
140	2.0
150	0.0
160	1.0
170	1.0
180	0.0
190	1.0
200	1.0
210	0.5
220	0.0
230	1.0
240	0.5
250	-0.5

System Status at Event (Event Record 2)

Multi-Event, Number of Events (1, 2)	2
Complete File Recorded (Yes/No)	Yes
Ignition Cycle, Download	83
Time from Event 1 to 2 (sec)	1.1
Maximum Delta-V, Longitudinal (MPH [km/h])	-17 [-27]
Time, Maximum Delta-V, Longitudinal (msec)	300.0
Maximum Delta-V, Lateral (MPH [km/h])	4 [7]
Time, Maximum Delta-V, Lateral (msec)	215.0
Time, Maximum Delta-V, Resultant (msec)	300.0
Time, Accelerometer Range Exceeded, Longitudinal (msec)	0
Time, Accelerometer Range Exceeded, Lateral (msec)	0
Time, Accelerometer Range Exceeded, Normal (msec)	0

Deployment Command Data (Event Record 2)

Pretensioner Deployment, Time to Fire, Driver (msec)	0
Pretensioner Deployment, Time to Fire, Right Front Passenger (msec)	0
Lap Pretensioner Deployment, Time to Fire, Driver (msec)	0
Frontal Air Bag Deployment, Time to Deploy First Stage, Driver (msec)	0
Frontal Air Bag Deployment, Time to Deploy First Stage, Right Front Passenger (msec)	0
Frontal Air Bag Deployment, Time to 2nd Stage, Driver (msec)	0
Frontal Air Bag Deployment, Time to 2nd Stage, Right Front Passenger (msec)	0
Safety Belt Adaptive Load Limiter, Time to Initiation, Right Front Passenger (msec)	0
Side Air Bag Deployment, Time to Deploy, Driver (msec)	0
Side Air Bag Deployment, Time to Deploy, Right Front Passenger (msec)	0
Side Curtain/Tube Air Bag Deployment, Time to Deploy, Driver Side (msec)	0
Side Curtain/Tube Air Bag Deployment, Time to Deploy, Right Side (msec)	0
Frontal Air Bag Deployment, nth Stage Disposal, Driver (Yes/No)	No
Frontal Air Bag Deployment, nth Stage Disposal, Right Front Passenger (Yes/No)	No

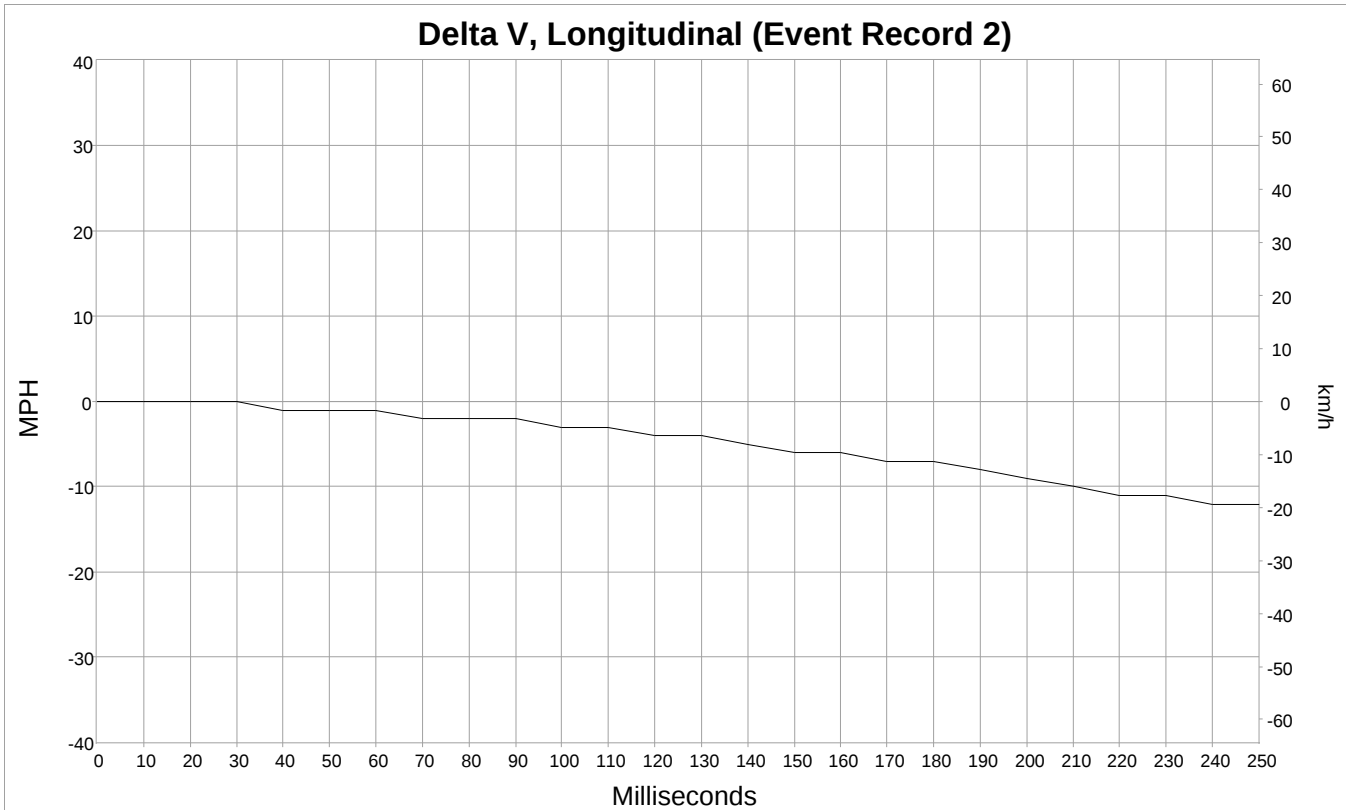
Pre-Crash Data -1 sec (Event Record 2)

Safety Belt Status, Driver	On
Safety Belt Status, Right Front Passenger	On
Seat Track Position Switch, Foremost, Status, Driver	No
Occupant Size Classification, Right Front Passenger Airbag Suppressed (Yes/No)	No
Frontal Air Bag Warning Lamp (On, Off)	On
Ignition Cycle, Crash	82

Pre-Crash Data -5 to 0 sec [2 samples/sec] (Event Record 2)

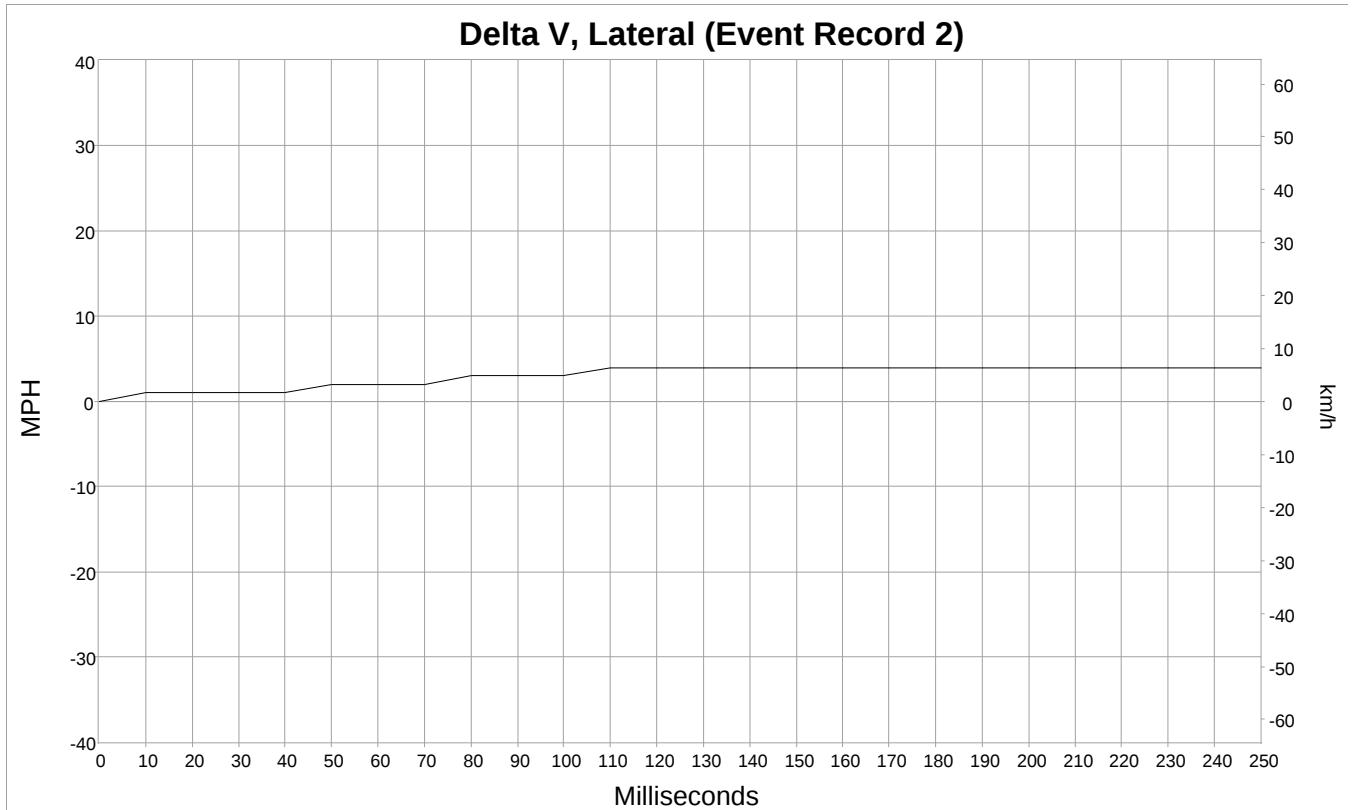
(the most recent sampled values are recorded prior to the event)

Time Stamp (sec)	Speed, Vehicle Indicated (MPH [km/h])	Accelerator Pedal Position, % full	Service Brake (On, Off)	ABS Activity (On, Off)	Stability Control (On, Off, Engaged)	Steering Input (deg)	Engine RPM	PCM Derived Accelerator Pedal Position, % full	EV Mode (On, Off)
-5.0	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-4.5	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-4.0	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-3.5	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-3.0	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-2.5	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-2.0	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-1.5	0 [0]	79	Off	Off	On Non-Engaged	0	0	79	Off (Not EV Mode)
-1.0	0 [0]	23	On	Off	On Non-Engaged	0	0	22	Off (Not EV Mode)
-0.5	0 [0]	24	On	Off	On Non-Engaged	0	0	24	Off (Not EV Mode)
0.0	0 [0]	25	On	Off	On Non-Engaged	0	0	25	Off (Not EV Mode)



Longitudinal Delta V (Event Record 2)

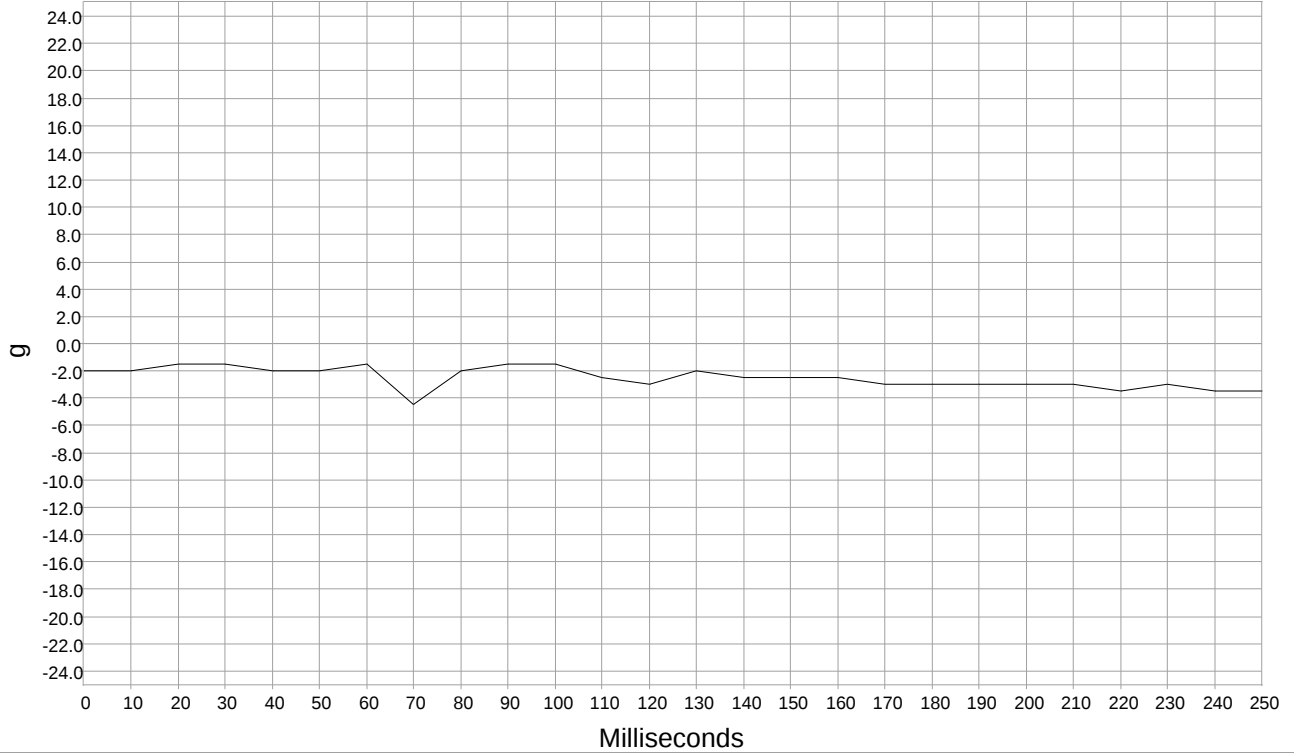
Time (msec)	MPH [km/h]
0	0 [0]
10	0 [0]
20	0 [0]
30	0 [0]
40	-1 [-1]
50	-1 [-1]
60	-1 [-2]
70	-2 [-3]
80	-2 [-3]
90	-2 [-4]
100	-3 [-5]
110	-3 [-5]
120	-4 [-6]
130	-4 [-7]
140	-5 [-8]
150	-6 [-9]
160	-6 [-10]
170	-7 [-11]
180	-7 [-12]
190	-8 [-13]
200	-9 [-15]
210	-10 [-16]
220	-11 [-17]
230	-11 [-18]
240	-12 [-19]
250	-12 [-20]



Lateral Delta V (Event Record 2)

Time (msec)	MPH [km/h]
0	0 [0]
10	1 [1]
20	1 [1]
30	1 [2]
40	1 [2]
50	2 [3]
60	2 [3]
70	2 [4]
80	3 [5]
90	3 [5]
100	3 [5]
110	4 [6]
120	4 [6]
130	4 [6]
140	4 [6]
150	4 [6]
160	4 [6]
170	4 [6]
180	4 [7]
190	4 [7]
200	4 [7]
210	4 [7]
220	4 [7]
230	4 [7]
240	4 [7]
250	4 [6]

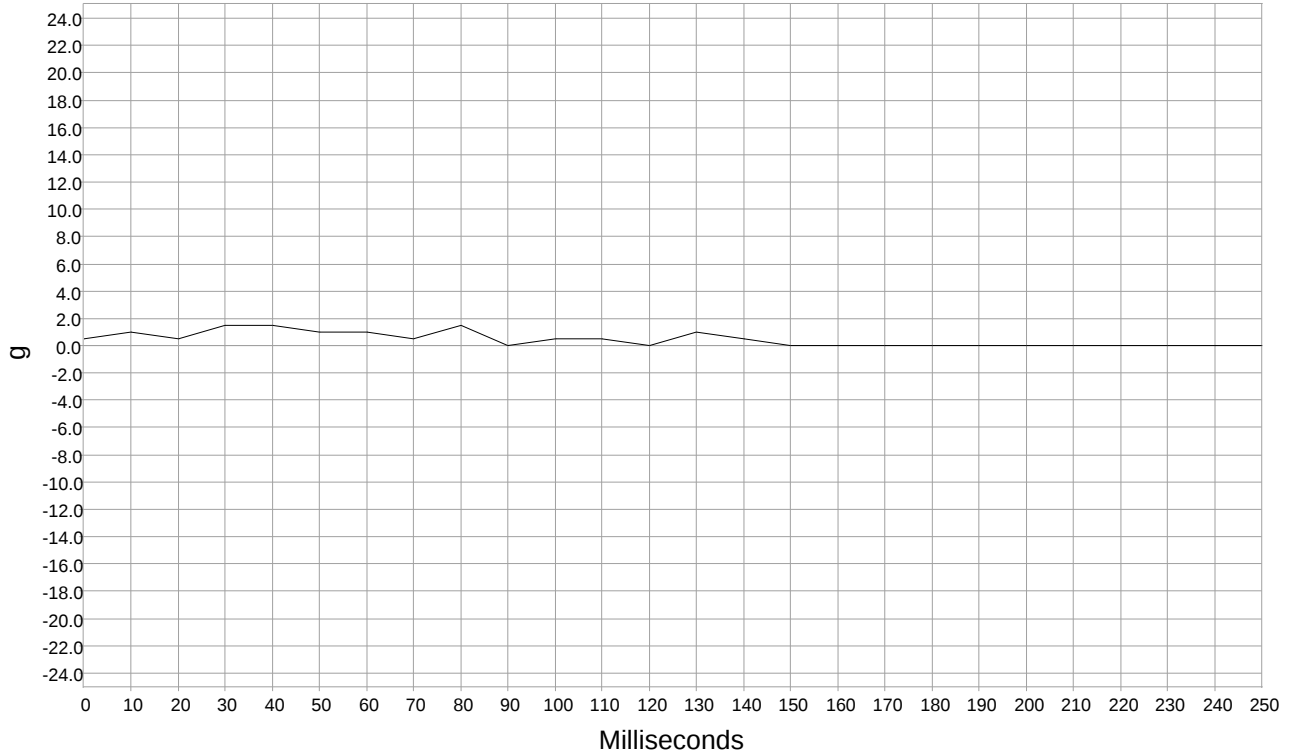
Acceleration, Longitudinal (Event Record 2)



Longitudinal Acceleration (Event Record 2)

Time (msec)	g
0	-2.0
10	-2.0
20	-1.5
30	-1.5
40	-2.0
50	-2.0
60	-1.5
70	-4.5
80	-2.0
90	-1.5
100	-1.5
110	-2.5
120	-3.0
130	-2.0
140	-2.5
150	-2.5
160	-2.5
170	-3.0
180	-3.0
190	-3.0
200	-3.0
210	-3.0
220	-3.5
230	-3.0
240	-3.5
250	-3.5

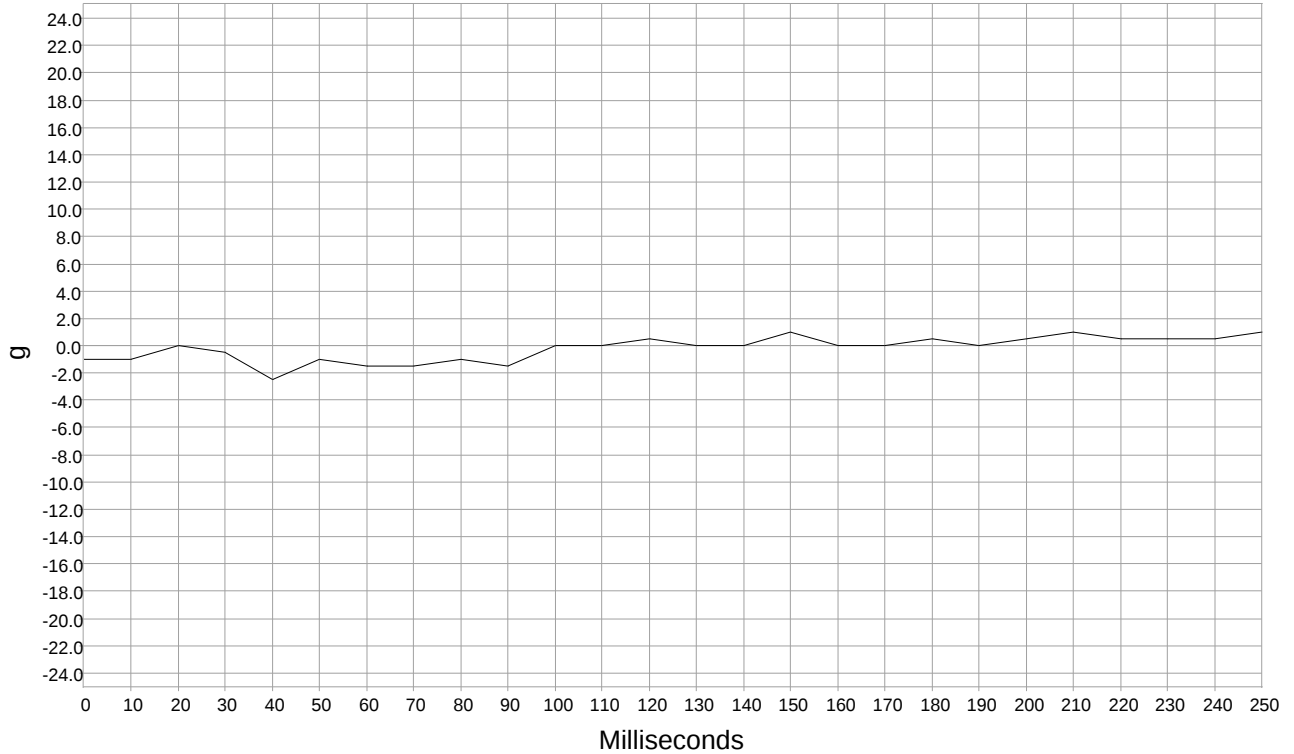
Acceleration, Lateral (Event Record 2)



Lateral Acceleration (Event Record 2)

Time (msec)	g
0	0.5
10	1.0
20	0.5
30	1.5
40	1.5
50	1.0
60	1.0
70	0.5
80	1.5
90	0.0
100	0.5
110	0.5
120	0.0
130	1.0
140	0.5
150	0.0
160	0.0
170	0.0
180	0.0
190	0.0
200	0.0
210	0.0
220	0.0
230	0.0
240	0.0
250	0.0

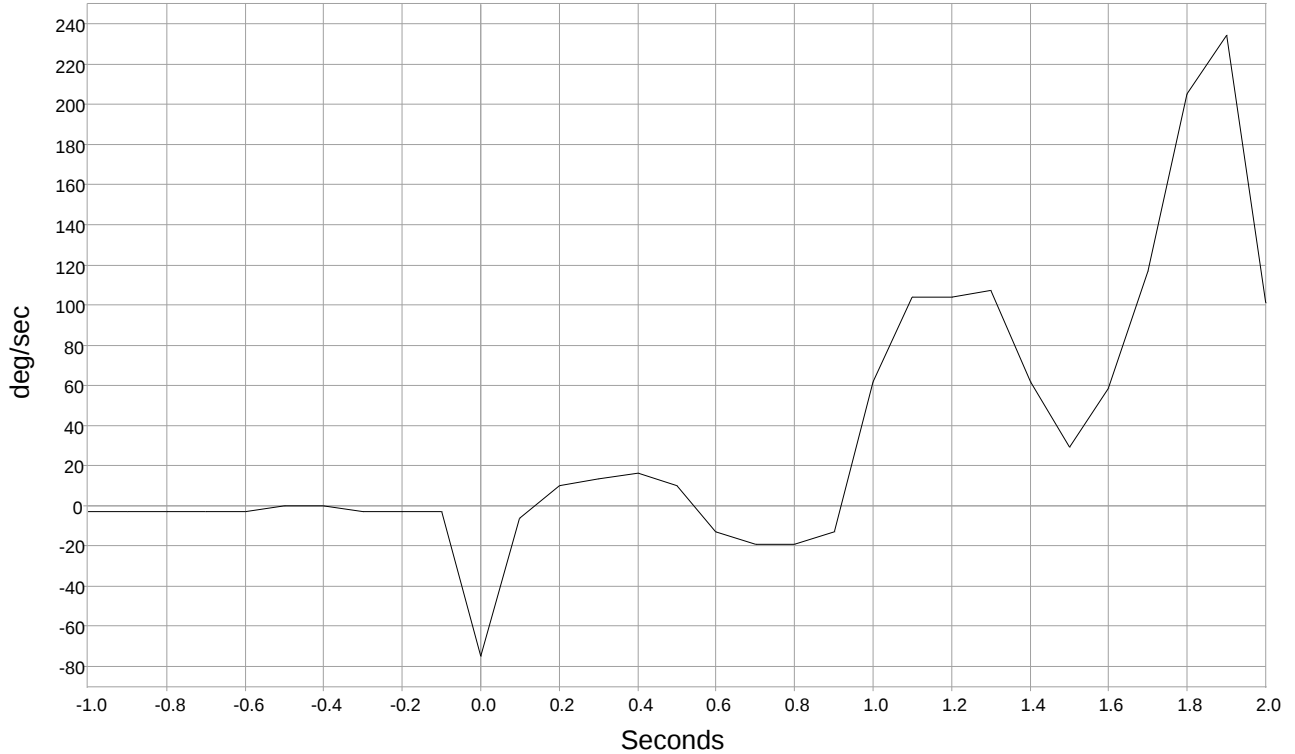
Acceleration, Normal (Event Record 2)



Normal Acceleration (Event Record 2)

Time (msec)	g
0	-1.0
10	-1.0
20	0.0
30	-0.5
40	-2.5
50	-1.0
60	-1.5
70	-1.5
80	-1.0
90	-1.5
100	0.0
110	0.0
120	0.5
130	0.0
140	0.0
150	1.0
160	0.0
170	0.0
180	0.5
190	0.0
200	0.5
210	1.0
220	0.5
230	0.5
240	0.5
250	1.0

Vehicle Roll Rate (Rollover Event Record)



Roll Rate

Time (sec)	deg/sec	Time (sec)	deg/sec
-1.0	-3.3	0.6	-13.0
-0.9	-3.3	0.7	-19.5
-0.8	-3.3	0.8	-19.5
-0.7	-3.3	0.9	-13.0
-0.6	-3.3	1.0	61.8
-0.5	0.0	1.1	104.2
-0.4	0.0	1.2	104.2
-0.3	-3.3	1.3	107.4
-0.2	-3.3	1.4	61.8
-0.1	-3.3	1.5	29.3
0.0	-74.9	1.6	58.6
0.1	-6.5	1.7	117.2
0.2	9.8	1.8	205.1
0.3	13.0	1.9	234.4
0.4	16.3	2.0	100.9
0.5	9.8		

Hexadecimal Data

DID #	Data
\$8000	71 34 14 14 01 33 00 59 00 55 00 00 11 33 00 00 62 0F 00 C9 00 00 00 00 00 00 00 00 18 80 42 27 00 D2
\$8020	01 02 00 00 00 00 00 00 00 00 00 00 00 00 00 FD
\$8021	AA 00 01 02 00 0B 00 00 00 00 00 48 00 53 AA AA
\$8022	AA 00 C8 78 E6 00 00 00 0B 0B 00 00 0B 00 00 00 00 0D 0B 21 33 00 00 00 00 00 1F 00 00 00 1E 00 11 00 00 00 00 00 00 00 00 00 00 00 00 00 00 55
\$8023	AA 00 C8 78 E6 00 11 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1F
\$8024	AA 00 FF 00 00 00 43 03 12 02 01 00 00 52 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 AA
\$8025	AA 00 FF 00 00 00 43 03 12 02 01 01 00 52 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 A9
\$8026	AA 00 FD 00 35 00 01 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 17 00 00 16 01 00 00 00 00 00 00 00 00 00 C9
\$8027	AA 00 FD 00 35 00 01 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 4F 00 00 4F 00 00 00 00 00 00 00 00 00 00 00 00 17 00 00 16 01 00 00 00 00 00 00 00 00 00 00 00 18 00 00 18 01 00 00 00 00 00 00 00 00 00 00 00 19 00 00 19 01 00 00 00 00 00 00 00 00 00 A1
\$8028	AA 00 00 FE FB F1 DB DA D6 D2 D1 D1 D1 D1 D2 D2 00 D0 26 00 00 00 00 31
\$8029	AA 00 00 00 00 00 FF FF FE FD FD FC FB FB FA F9 F8 F7 F6 F5 F4 F3 F1 F0 EF EE ED EC 00 00 00 00

	00 00 00 00 00 00 00 00 00 E5 78 00 00 00 00 00 C6
\$802A	AA 00 00 00 00 00 FC F7 F5 F2 F0 EF EE EE EE EF EF 00 EE 27 00 27 00 00 00 B9
\$802B	AA 00 00 01 01 02 02 03 03 04 05 05 05 06 06 06 06 06 06 06 07 07 07 07 07 07 06 00 00 00 00 00 00 00 00 00 00 00 00 07 56 00 78 00 00 00 01
\$802C	AA 01 CD 0F EC A4 B3 E2 D9 F5 05 01 08 03 00 FD 02 02 FE 00 FF 00 00 01 00 00 01 01 01 68 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 0B
\$802D	AA 01 FC FC FD FD FC FC FD F7 FC FD FD FB FA FC FB FB FB FA FA FA FA FA F9 FA F9 F9 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 D8
\$802E	AA 01 01 FF CF DC E1 E4 D0 05 FD FF 03 00 02 FD 00 00 00 00 00 FF 00 01 00 00 00 01 00 1E 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 F3
\$802F	AA 01 01 02 01 03 03 02 02 01 03 00 01 01 00 02 01 00 3E
\$8030	AA 01 13 12 FB 13 13 EF EF FF EF 02 EF 02 05 08 04 00 02 02 00 02 02 01 00 02 01 FF 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 34
\$8031	AA 01 FE FE 00 FF FB FE FD FD FE FD 00 00 01 00 00 02 00 00 01 00 01 02 01 01 01 02 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 60
\$8007	00 00 00 00 00 00 00 00 00 0E 00 F2
\$803F	AA 00 00 30 00 00 00 00 00 00 00 00 00 00 00 00 84 12 07 00
\$8011	AA 00 C4 3F 00 00 00 00 00 00 00 27 27 00 00 00 10 00 00 00 00 00 00 56 A5 2A 7F 00 51
\$8012	AA 00 55 08 74 22 76 00 08 0A F6 02 0C 08 08 52 01 BB 04 08 52 01 BB 08 08 52 01 BB 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 81 00
\$8013	AA 00 C4 3F 00 53
\$8014	AA 00 56 19 0D 48 00 00 01 83 00 0E

\$8015	AA 00 C4 3F 00 53
\$8016	AA 00 56
\$8017	AA 00 C4 3F 00 00 00 00 00 00 27 27 00 00 00 10 00 00 00 00 00 02 56 A5 2A 7F 00 4F
\$8018	AA 00 01 03 03 F9 26 63 02 B6 16 5E 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 A1
\$8019	AA 00 C4 3F 03 10 FC 00 27 27 00 00 10 00 00 00 00 00 02 59 5A 22 31 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 DE
\$801A	AA 00 41 FD 00 02 A8 FE 55 00 2B 00 C6 FF 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 42 80 00 04 21 31 21 29 F5 0B FF FF CB 00
\$801B	AA 00 FF FF FF FF FF 00 00 FF FF FF E9 FE 03 04 05 03 FC FA FA FC 13 20 20 21 13 09 12 24 3F 48 1F 00 FC 00 00 00 00 00 00 00 00 00 00 00 00 00 00
\$8001	00 00 C4 18 00 00 00 00 36 36 00 00 00 30 00 00 00 00 00 06 07 00
\$8002	00 00 E0 FE F8 00 00 00 00 80 13 00 00 00 00 00 00 3C D0 E5 EE 07 0E 00 80 28 13 06 0D 00
\$8003	00 00 E0 00 00 0A 02 02 00
\$8004	00 00
\$8008	00 00
\$8009	00 00 90 00 AA 00 00 AA 00 00 00 00 00 00 00 00 00 00 00
\$8010	00 00 F8 F8 F8 F8 E0 E0 E0 E3 00 00 00 00 00 AF C0 01 20 02 00 00 00 AF 80 11 A0 01 00 00 00

	0F 00 00 00 00 00 00 00 0F 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 AF 91 11 00 00 00 00 00
	AF C9 01 00 00 00 00 00 A0 10 02 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
\$801C	AA 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 56
\$801F	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 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 00 00 00 00 00 00 00 00 00 00 00 00
\$8040	AA 00 F0 00 FF E0 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00
\$8041	AA 00 FE CA 08 00 00 00 3C 3C 3C 3C 3C 3C 3C 00
	3C 3C 00 00 3C 3C 00 00 00 00 00 00 3C 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00
\$8042	AA 00 FE 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
\$8043	AA 00 FF F0 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
\$8044	AA 00 AC 00 80 00 81 00 7C 88 00 00 00 00 00 00
	00 00 00 00
\$8045	AA 00 A4 00 01 00 BD 00 00 74 00 00 00 00 00 00
	00 00 00 00
\$8046	AA 00 C0 00 00 00 00 00 00 09 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
\$8050	FF FF FF FF 00 00 00 00 00 00 00 00 00 00 00 22
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
\$8051	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
\$8052	F3 13 00 00 00 15 11 00 F9 00 00 00 00 00 00 00
\$8053	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
\$8060	AA 00 11 11 11 A1 12 11 12 41 21 11 00 52 00 00
	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
\$8061	AA 00 CC 00 00 00 00 00 00 00 00 00 00 00 00 00
	7B 7B 11 00 B8 B8 00 00 00 00 00 00 00 00 00

[illegible]

\$8062

[illegible]

\$8063

AA	00	CF	C0	00	00	00	00	00	00	00	00	00	00	00	00
80	80	00	00	7B	7B	7D	7D	80	80	00	00	00	00	00	00
80	80	00	00	7B	7B	7D	7D	80	80	00	00	00	00	00	00
80	80	00	00	7B	7B	7D	7D	80	80	00	00	00	00	00	00
80	80	00	00	7B	7B	7D	7D	80	80	00	00	00	00	00	00
80	80	00	00	7B	7B	7D	7D	80	80	00	00	00	00	00	00
80	80	00	00	7B	7B	7D	7D	80	80	00	00	00	00	00	00
80	80	00	00	7B	7B	7D	7D	80	80	00	00	00	00	00	00
80	80	00	00	7B	7A	7D	7D	80	80	00	00	00	00	00	00
80	80	00	00	7B	7A	7D	7C	80	80	00	00	00	00	00	00
80	80	00	00	7B	7B	7D	7C	80	80	00	00	00	00	00	00
80	80	00	00	7B	7B	7D	7D	80	80	00	00	00	00	00	00
80	80	00	00	7B	7B	7D	7D	80	80	00	00	00	00	00	00

\$8064

[illegible]

9D 9D 9E 9E 00 00 00 00 00 00 9E 9E 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
9D 9D 9E 9E 00 00 00 00 00 00 9E 9E 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
9D 9D 9E 9E 00 00 00 00 00 00 9E 9E 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

\$8065

AA 00 FF FC F0 CC 00 00 00 00 00 00 00 00 00
52 52 52 52 48 48 48 48 48 48 47 47 46 46 00 00
4B 4B 4E 4E 00 00 00 00 4D 4D 00 00 4F 4F 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
52 52 52 52 48 48 48 48 48 48 47 47 46 46 00 00
4B 4B 4E 4E 00 00 00 00 4D 4D 00 00 4F 4F 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
52 52 52 52 48 48 48 48 48 48 47 47 46 46 00 00
4B 4B 4E 4E 00 00 00 00 4D 4D 00 00 4F 4F 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
52 52 52 52 48 48 48 48 48 48 47 47 46 46 00 00
4B 4B 4E 4E 00 00 00 00 4D 4D 00 00 4F 4F 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
52 52 52 52 48 48 48 48 48 48 47 47 46 46 00 00
4B 4B 4E 4E 00 00 00 00 4D 4D 00 00 4F 4F 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F3 52 F3 52 F3 48 F3 48 F3 48 F3 47 F3 46 00 00
4B 4B F3 4E 00 00 00 00 4D 4D 00 00 F3 4F 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 00 00
4B 4B F3 F3 00 00 00 00 4D 4D 00 00 F3 F3 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 00 00
4B 4B F3 F3 00 00 00 00 4D 4D 00 00 F3 F3 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 00 00
4B 4B F3 F3 00 00 00 00 4D 4D 00 00 F3 F3 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 F3 00 00
4B 4B F3 F3 00 00 00 00 4D 4D 00 00 F3 F3 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

\$8066

AA 00 FF 00 00 00 00 00 00 00 00 00 00 00 00
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00 00 59 5A 22 2D 00 5A 00 00 00 00 00 00 00
00 00 59 5A 22 2E 00 5A 00 00 00 00 00 00 00
00 00 59 5A 22 2F 00 5A 00 00 00 00 00 00 00
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00 00 59 5A 22 31 00 5A 00 00 00 00 00 00 00
00 00 59 5A 22 32 00 5A 00 00 00 00 00 00 00
00 00 59 5A 22 33 00 5A 00 00 00 00 00 00 00
00 00 59 5A 22 34 00 5A 00 00 00 00 00 00 00
00 00 59 5A 22 35 00 5A 00 00 00 00 00 00 00
00 00 59 5A 22 36 00 5A 00 00 00 00 00 00 00

\$E600

2D 76

\$E604

01 00 00 00

\$F100

00 00 00 00

\$F110

0E 37 37 39 36 30 54 35 41 41 32 31 32 4D 31 00
00

\$F112

0A 42 43 51 45 43 45 30 30 46 42 00 00 00 00 00

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

\$F181

37 37 39 35 39 2D 54 35 41 2D 41 32 33 30 00 00

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