

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	
User	Miguel Tabone
Case Number	
EDR Data Imaging Date	02/05/2019
Crash Date	
Filename	VITZ LI GHANDU [REDACTED] 5-2-2019_ACM.CDRX
Saved on	Tuesday, February 5 2019 at 13:15:27
Imaged with CDR version	Crash Data Retrieval Tool 17.2
Imaged with Software Licensed to (Company Name)	University of Malta
Reported with CDR version	Crash Data Retrieval Tool 17.2
Reported with Software Licensed to (Company Name)	University of Malta
EDR Device Type	Airbag Control Module
Event(s) recovered	Front/Rear (2), Side (2)

Comments

Vitz [REDACTED]
 Li ghandu [REDACTED]
 5-2-2019

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 Tech Stream, 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 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 / 15EDR / 17EDR
- 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.
 - In some situations, pre-crash data may be re-recorded if an event continues for more than 0.5 seconds.
- 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	Outside to Inside
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
 - "Ignition Cycle Since DTC was Set" records the cumulative amount of times that the ignition is switched ON after an airbag system diagnostics code was set for the first time.
 - "Air Bag Warning Lamp ON Time Since DTC was Set" records the total time that the ignition has been switched ON after the warning lamp was illuminate, due to an airbag system fault, for the first time. The resolution 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.

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System Status at Time of Retrieval

ECU Part Number	89170-52B70
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)	846
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	8	Side Crash	0	Complete (Page 0)	Complete (Side Page 1)
1st Prior Event	7	Front/Rear Crash	-7	Complete (Page 0)	Complete (Front/Rear Page 1)
2nd Prior Event	6	Front/Rear Crash	-840	Complete (Page 1)	Complete (Front/Rear Page 0)
3rd Prior Event	5	Side Crash	-853	Complete (Page 1)	Complete (Side Page 0)

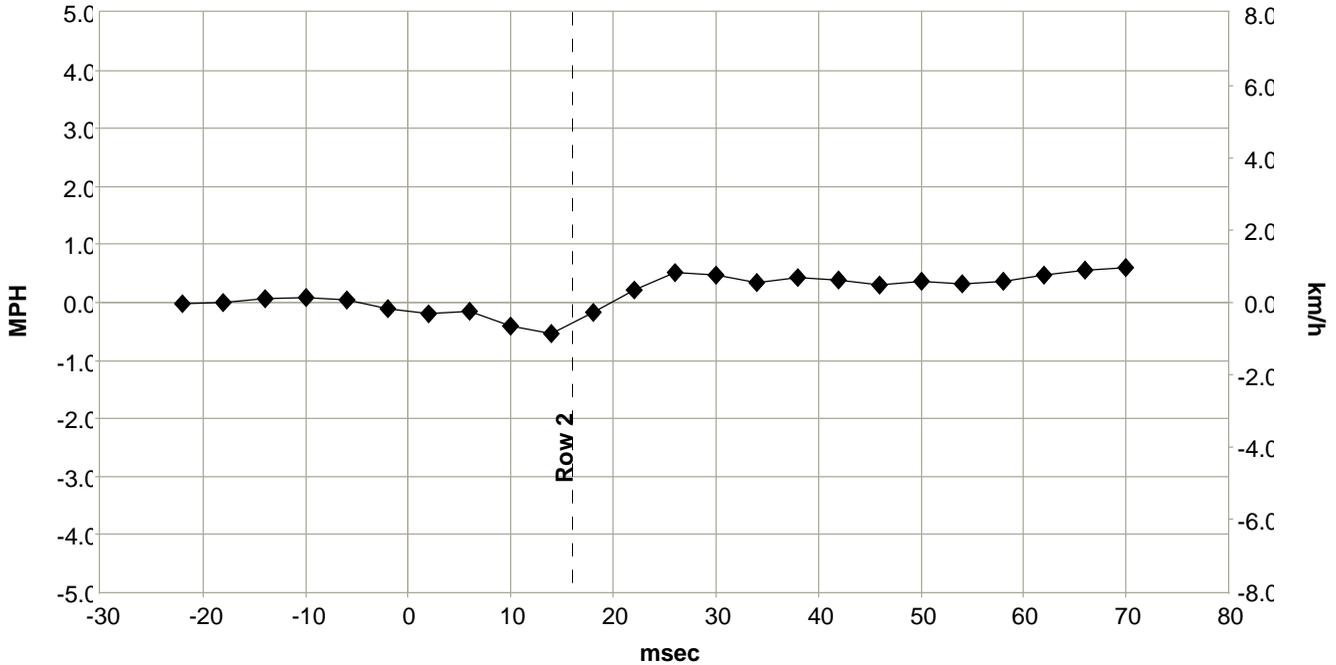
System Status at Event (Most Recent Event, TRG 8)

Recording Status, Side Crash Info.	Complete
Crash Type	Side Crash
TRG Count (times)	8
Recorded Side	Passenger's Side
Previous Crash Type	Frontal/Rear
Time from Pre-Crash TRG (msec)	7
Linked Pre-Crash Page	0
Time to Deployment Command, B-Pillar Sensor (msec)	Not Commanded
Time to Deployment Command, C-Pillar Sensor (msec)	16

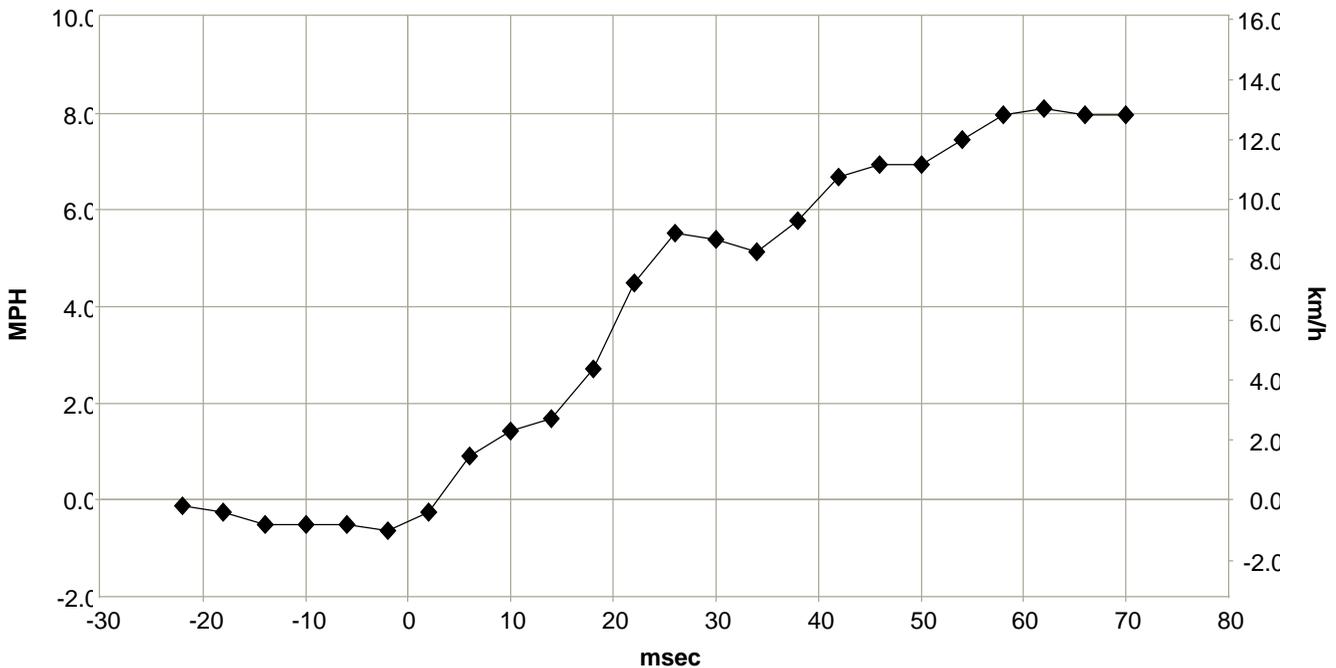
Lateral Crash Pulse (Most Recent Event, TRG 8 - table 1 of 2)

Recording Status, Time Series Data	Complete
Time from TRG to Next Sample (msec)	2
Max Lateral Delta-V, B-Pillar Sensor (MPH [km/h])	8.1 [13.0]
Max Lateral Delta-V, C-Pillar Sensor (MPH [km/h])	15.9 [25.5]

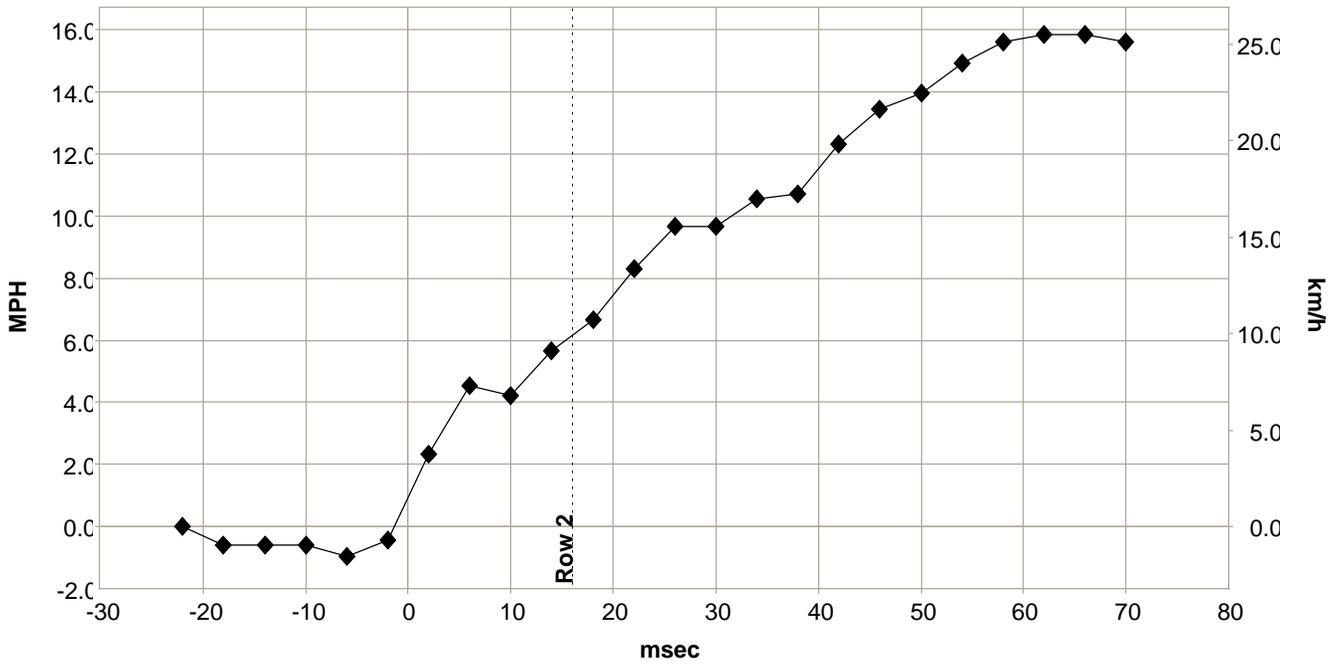
Lateral Delta-V, Airbag ECU Sensor



Lateral Delta-V, B-Pillar Sensor



Lateral Delta-V, C-Pillar Sensor



Lateral Crash Pulse (Most Recent Event, TRG 8 - 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])
-22	0.0 [0.0]	-0.1 [-0.2]	0.0 [0.0]
-18	0.0 [0.0]	-0.3 [-0.4]	-0.6 [-1.0]
-14	0.1 [0.1]	-0.5 [-0.8]	-0.6 [-1.0]
-10	0.1 [0.1]	-0.5 [-0.8]	-0.6 [-1.0]
-6	0.1 [0.1]	-0.5 [-0.8]	-0.9 [-1.5]
-2	-0.1 [-0.2]	-0.6 [-1.0]	-0.4 [-0.7]
2	-0.2 [-0.3]	-0.3 [-0.4]	2.3 [3.7]
6	-0.2 [-0.2]	0.9 [1.4]	4.5 [7.3]
10	-0.4 [-0.7]	1.4 [2.3]	4.2 [6.8]
14	-0.5 [-0.9]	1.7 [2.7]	5.7 [9.1]
18	-0.2 [-0.3]	2.7 [4.3]	6.7 [10.8]
22	0.2 [0.4]	4.5 [7.2]	8.3 [13.4]
26	0.5 [0.8]	5.5 [8.9]	9.7 [15.6]
30	0.5 [0.8]	5.4 [8.7]	9.7 [15.6]
34	0.3 [0.6]	5.1 [8.3]	10.5 [17.0]
38	0.4 [0.7]	5.8 [9.3]	10.7 [17.2]
42	0.4 [0.6]	6.7 [10.8]	12.3 [19.9]
46	0.3 [0.5]	6.9 [11.2]	13.5 [21.7]
50	0.4 [0.6]	6.9 [11.2]	14.0 [22.5]
54	0.3 [0.5]	7.5 [12.0]	14.9 [24.0]
58	0.4 [0.6]	8.0 [12.8]	15.6 [25.1]
62	0.5 [0.8]	8.1 [13.0]	15.9 [25.5]
66	0.6 [0.9]	8.0 [12.8]	15.9 [25.5]
70	0.6 [1.0]	8.0 [12.8]	15.6 [25.1]

DTCs Present at Time of Event (Most Recent Event, TRG 8)

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 8)

Recording Status, Pre-Crash/Occupant	Complete
Time from Pre-Crash to TRG (msec)	400
Shift Position	Drive

Pre-Crash Data, -5 to 0 seconds (Most Recent Event, TRG 8)

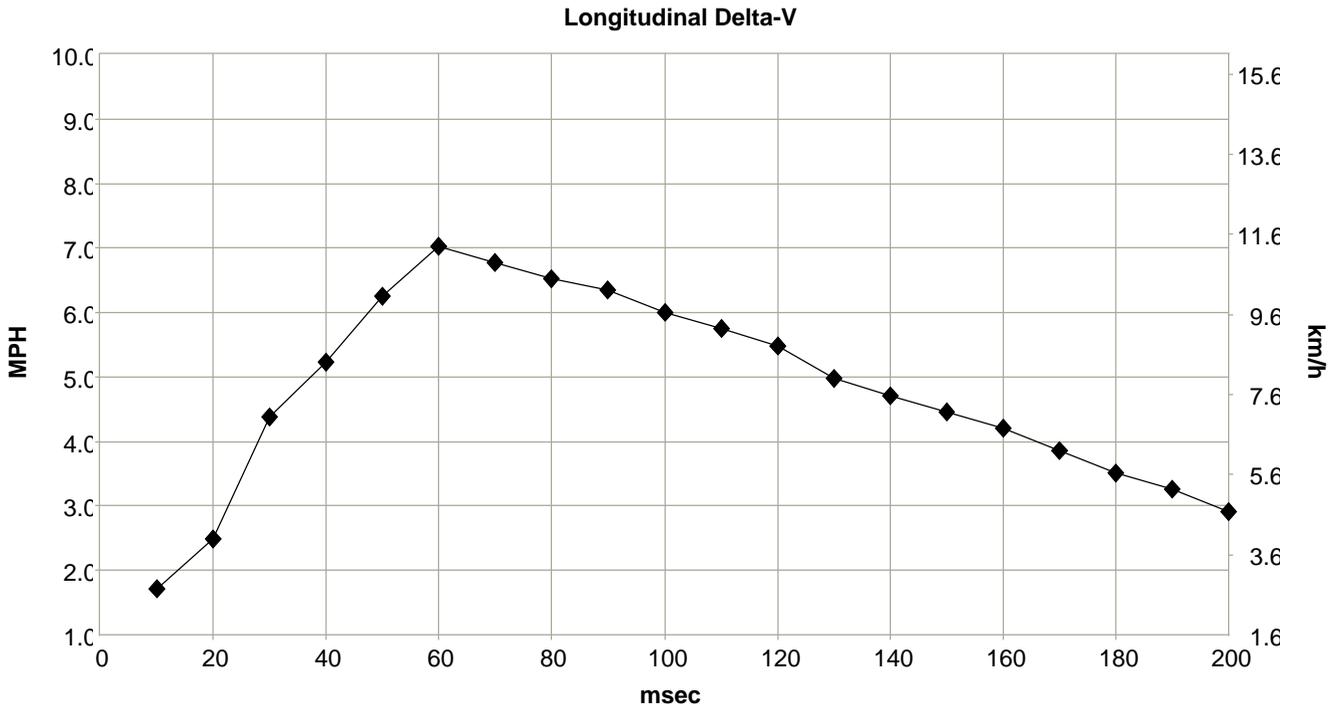
Time (sec)	-4.4	-3.4	-2.4	-1.4	-0.4	0 (TRG)
Vehicle Speed (MPH [km/h])	73.3 [118]	72.1 [116]	70.8 [114]	68.4 [110]	22.4 [36]	28.6 [46]
Brake Switch	OFF	OFF	OFF	ON	ON	ON
Accelerator Rate (V)	0.78	0.78	0.90	0.78	0.78	0.78
Engine RPM (RPM)	3,600	2,800	2,800	2,400	800	800

System Status at Event (1st Prior Event, TRG 7)

Recording Status, Front/Rear Crash Info.	Complete
Crash Type	Front/Rear Crash
TRG Count (times)	7
Previous Crash Type	Frontal/Rear
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 (1st Prior Event, TRG 7 - table 1 of 2)

Recording Status, Time Series Data	Complete
Max Longitudinal Delta-V (MPH [km/h])	7.0 [11.3]



Longitudinal Crash Pulse (1st Prior Event, TRG 7 - table 2 of 2)

Time (msec)	Longitudinal Delta-V (MPH [km/h])
10	1.7 [2.8]
20	2.5 [4.0]
30	4.4 [7.0]
40	5.2 [8.4]
50	6.3 [10.1]
60	7.0 [11.3]
70	6.8 [10.9]
80	6.5 [10.5]
90	6.3 [10.2]
100	6.0 [9.7]
110	5.7 [9.2]
120	5.5 [8.8]
130	5.0 [8.0]
140	4.7 [7.6]
150	4.5 [7.2]
160	4.2 [6.8]
170	3.9 [6.2]
180	3.5 [5.7]
190	3.3 [5.2]
200	2.9 [4.7]

DTCs Present at Time of Event (1st Prior Event, TRG 7)

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 7)

Recording Status, Pre-Crash/Occupant	Complete
Time from Pre-Crash to TRG (msec)	400
Shift Position	Drive

Pre-Crash Data, -5 to 0 seconds (1st Prior Event, TRG 7)

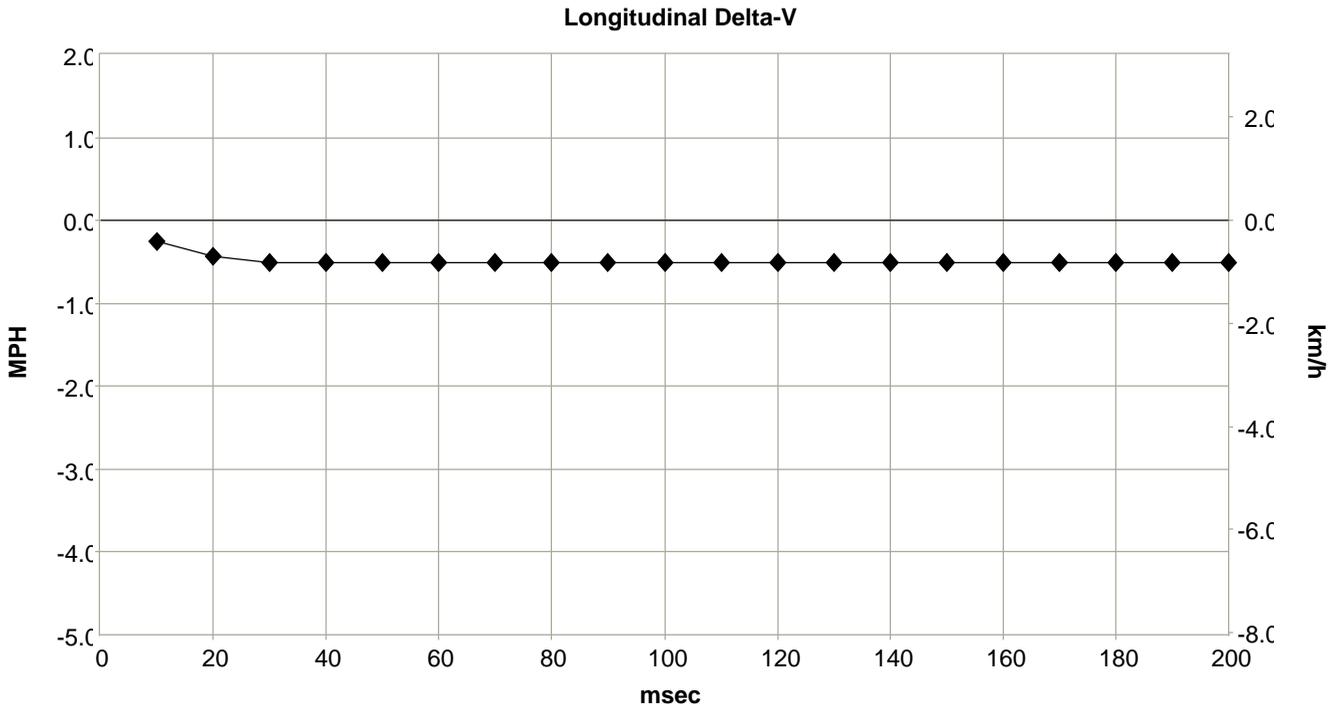
Time (sec)	-4.4	-3.4	-2.4	-1.4	-0.4	0 (TRG)
Vehicle Speed (MPH [km/h])	73.3 [118]	72.1 [116]	70.8 [114]	68.4 [110]	22.4 [36]	28.6 [46]
Brake Switch	OFF	OFF	OFF	ON	ON	ON
Accelerator Rate (V)	0.78	0.78	0.90	0.78	0.78	0.78
Engine RPM (RPM)	3,600	2,800	2,800	2,400	800	800

System Status at Event (2nd Prior Event, TRG 6)

Recording Status, Front/Rear Crash Info.	Complete
Crash Type	Front/Rear Crash
TRG Count (times)	6
Previous Crash Type	Side
Time from Pre-Crash TRG (msec)	13
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 (2nd Prior Event, TRG 6 - table 1 of 2)

Recording Status, Time Series Data	Complete
Max Longitudinal Delta-V (MPH [km/h])	-0.5 [-0.8]



Longitudinal Crash Pulse (2nd Prior Event, TRG 6 - table 2 of 2)

Time (msec)	Longitudinal Delta-V (MPH [km/h])
10	-0.3 [-0.4]
20	-0.4 [-0.7]
30	-0.5 [-0.8]
40	-0.5 [-0.8]
50	-0.5 [-0.8]
60	-0.5 [-0.8]
70	-0.5 [-0.8]
80	-0.5 [-0.8]
90	-0.5 [-0.8]
100	-0.5 [-0.8]
110	-0.5 [-0.8]
120	-0.5 [-0.8]
130	-0.5 [-0.8]
140	-0.5 [-0.8]
150	-0.5 [-0.8]
160	-0.5 [-0.8]
170	-0.5 [-0.8]
180	-0.5 [-0.8]
190	-0.5 [-0.8]
200	-0.5 [-0.8]

DTCs Present at Time of Event (2nd Prior Event, TRG 6)

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 6)

Recording Status, Pre-Crash/Occupant	Complete
Time from Pre-Crash to TRG (msec)	600
Shift Position	Drive

Pre-Crash Data, -5 to 0 seconds (2nd Prior Event, TRG 6)

Time (sec)	-4.6	-3.6	-2.6	-1.6	-0.6	0 (TRG)
Vehicle Speed (MPH [km/h])	72.1 [116]	73.3 [118]	72.1 [116]	70.8 [114]	68.4 [110]	22.4 [36]
Brake Switch	OFF	OFF	OFF	OFF	ON	ON
Accelerator Rate (V)	1.80	0.78	0.78	0.90	0.78	0.78
Engine RPM (RPM)	4,000	3,600	2,800	2,800	2,400	1,600

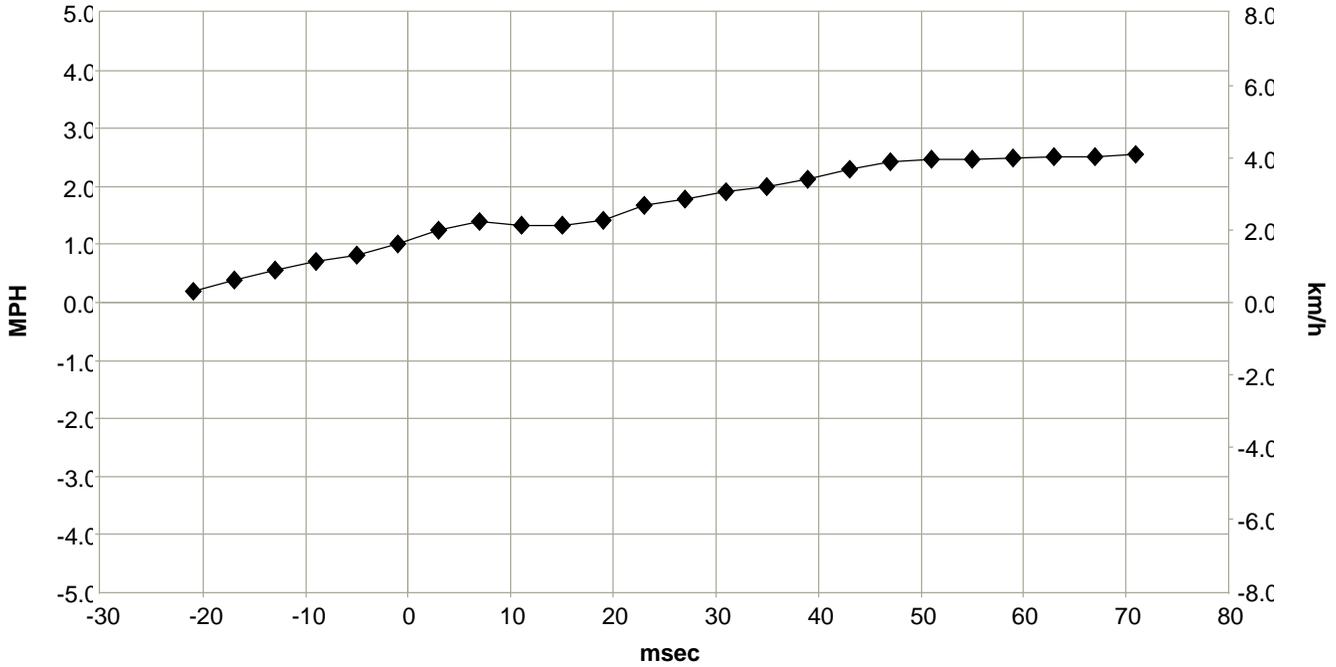
System Status at Event (3rd Prior Event, TRG 5)

Recording Status, Side Crash Info.	Complete
Crash Type	Side Crash
TRG Count (times)	5
Recorded Side	Driver's Side
Previous Crash Type	No Event
Time from Pre-Crash TRG (msec)	0
Linked Pre-Crash Page	1
Time to Deployment Command, B-Pillar Sensor (msec)	Not Commanded
Time to Deployment Command, C-Pillar Sensor (msec)	Not Commanded

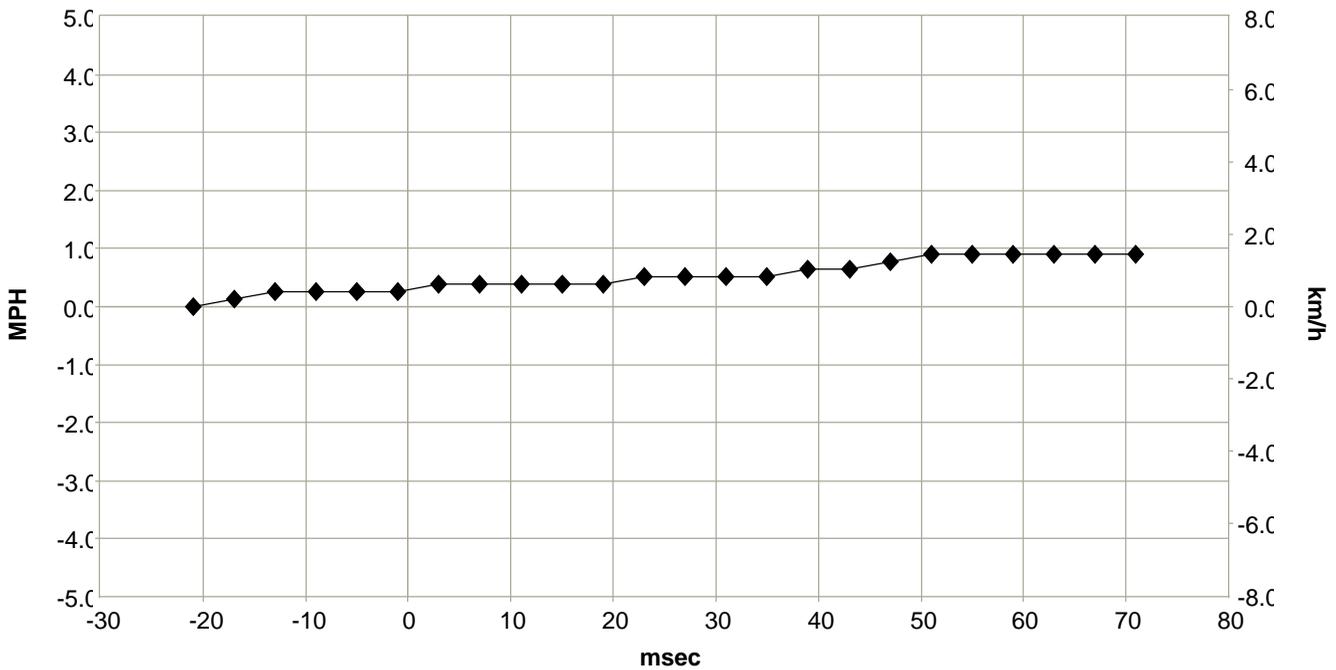
Lateral Crash Pulse (3rd Prior Event, TRG 5 - table 1 of 2)

Recording Status, Time Series Data	Complete
Time from TRG to Next Sample (msec)	3
Max Lateral Delta-V, B-Pillar Sensor (MPH [km/h])	0.9 [1.4]
Max Lateral Delta-V, C-Pillar Sensor (MPH [km/h])	0.3 [0.4]

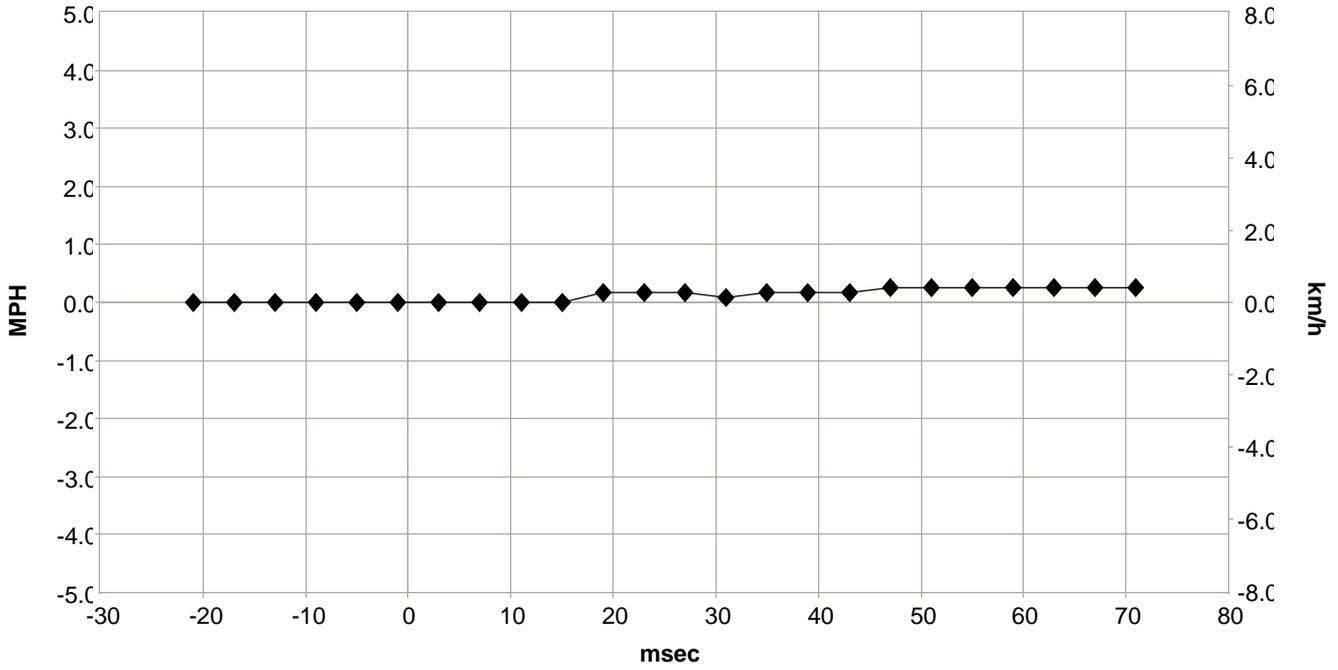
Lateral Delta-V, Airbag ECU Sensor



Lateral Delta-V, B-Pillar Sensor



Lateral Delta-V, C-Pillar Sensor



Lateral Crash Pulse (3rd Prior Event, TRG 5 - 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	0.2 [0.3]	0.0 [0.0]	0.0 [0.0]
-17	0.4 [0.6]	0.1 [0.2]	0.0 [0.0]
-13	0.5 [0.9]	0.3 [0.4]	0.0 [0.0]
-9	0.7 [1.1]	0.3 [0.4]	0.0 [0.0]
-5	0.8 [1.3]	0.3 [0.4]	0.0 [0.0]
-1	1.0 [1.6]	0.3 [0.4]	0.0 [0.0]
3	1.3 [2.0]	0.4 [0.6]	0.0 [0.0]
7	1.4 [2.2]	0.4 [0.6]	0.0 [0.0]
11	1.3 [2.1]	0.4 [0.6]	0.0 [0.0]
15	1.3 [2.1]	0.4 [0.6]	0.0 [0.0]
19	1.4 [2.3]	0.4 [0.6]	0.2 [0.3]
23	1.7 [2.7]	0.5 [0.8]	0.2 [0.3]
27	1.8 [2.9]	0.5 [0.8]	0.2 [0.3]
31	1.9 [3.1]	0.5 [0.8]	0.1 [0.1]
35	2.0 [3.2]	0.5 [0.8]	0.2 [0.3]
39	2.1 [3.4]	0.6 [1.0]	0.2 [0.3]
43	2.3 [3.7]	0.6 [1.0]	0.2 [0.3]
47	2.4 [3.9]	0.8 [1.2]	0.3 [0.4]
51	2.5 [4.0]	0.9 [1.4]	0.3 [0.4]
55	2.5 [4.0]	0.9 [1.4]	0.3 [0.4]
59	2.5 [4.0]	0.9 [1.4]	0.3 [0.4]
63	2.5 [4.0]	0.9 [1.4]	0.3 [0.4]
67	2.5 [4.1]	0.9 [1.4]	0.3 [0.4]
71	2.6 [4.1]	0.9 [1.4]	0.3 [0.4]

DTCs Present at Time of Event (3rd Prior Event, TRG 5)

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 (3rd Prior Event, TRG 5)

Recording Status, Pre-Crash/Occupant	Complete
Time from Pre-Crash to TRG (msec)	600
Shift Position	Drive

Pre-Crash Data, -5 to 0 seconds (3rd Prior Event, TRG 5)

Time (sec)	-4.6	-3.6	-2.6	-1.6	-0.6	0 (TRG)
Vehicle Speed (MPH [km/h])	72.1 [116]	73.3 [118]	72.1 [116]	70.8 [114]	68.4 [110]	22.4 [36]
Brake Switch	OFF	OFF	OFF	OFF	ON	ON
Accelerator Rate (V)	1.80	0.78	0.78	0.90	0.78	0.78
Engine RPM (RPM)	4,000	3,600	2,800	2,800	2,400	1,600

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	AE 40 00 01
	01	00
	03	35 32 42 37 30 30 30 30 43 43 30 30 30 43 43 30 30 30 43 42 30 30 30 43 42 30 30 30 44 30 30 30 30 44 30
	05	02
	06	00
	07	30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30
	0A	02
	20	80 00 C0 01
	21	00 31
	31	03 03 00
	32	03 03 02 02 00 00 00 00 00 00 00 00 00 00 00 80 00 00 00 08 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 7B 5F
	40	80 00 00 01
	41	58 0C 02 47 00 00 00 00
	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	02
	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 00 00 03 4E 00 00 A5 20 00 00 00 00 00 00
	40	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 -- --
	50	-- -- 00 00 01 5D 14 22 49 14 67 DD 14 79 E4 17
	60	E8 14 EC 14 04 00 00 55 00 00 00 00 00 00 00 00
	70	00 00 00 00 00 00 00 00 00 00 55 00 00 01 49 14 46
	80	DD 14 77 E4 17 9A E8 14 EC 14 E8 2E 06 00 00 55
	90	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
	A0	00 55 -- -- 03 02 01 00 00 00 00 00 00 00 00 00
	B0	00 00 00 00 00 00 00 00 FF A5 00 55 00 06 14 0D
	C0	FE FE 00 55 EC F7 EA F6 F4 F7 03 03 02 04 03 03
	D0	06 03 03 03 04 04 03 04 FE 90 00 55 00 07 00 00
	E0	FE FE 00 55 -- -- 00 01 01 01 00 00 00 01 00 00
	F0	00 01 00 00 00 01 00 01 01 00 00 00 00 00 00 00
	100	00 00 00 00 00 00 00 00 02 00 00 FF 01 00 00 01
	110	00 00 00 00 00 00 F5 F4 F7 F7 F9 F5 F2 F8 04 00
	120	FA F1 FA F9 FA F9 F6 F9 FD 00 FF FF FF FE 00 00
	130	00 00 30 55 00 05 E4 00 FE FE 00 55 FF FF FE 00
	140	00 FF 03 09 04 02 08 0E 08 FF FE 05 07 02 00 04
	150	04 01 FF 00 00 F9 00 00 FC 06 20 1A FC 11 0C 13
	160	10 00 0A 02 13 0D 06 0B 08 03 00 FD 01 FF FC FF
	170	02 09 05 FE 0F 07 EB E9 EF 02 08 FB 02 05 FD 02
	180	FE F9 FB FE 00 00 00 00 20 55 00 08 00 07 FE 10
	190	40 55

Disclaimer of Liability

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