INFORMATION Redacted PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C . 552(B)(6)

March 15, 2017 CL-10923921-8088 U.S. DOT Nat. Hwy Traffic Tueson Safety Administration Office of Defects Investigation NHTSA Tracking (NVS-210) 1200 New Jersey Ave. SE, West Blog. WA D.C. 20,590 #109 239 21 MAR 22 2017 Phone EMail To whom it concerns. I'm writting to sand a copy of the Crash Data from the computer on my 2013 Toyota Anis that was involved in a crosh because of a cadisfraphic failure of the brake system. I'm including my Annalysis of this data and a copy of stoyotas investigation letter that denys any brake failure, which is false. I hope that you will study this crash data and come to the same conclusion that I made. I hope to have your reply seen and that a recall will be issued for this brate failure defect. Sincerely ET 3.24.17 UN

NHTSA Tracking #109' 23921

My Analysis of the Computer Crash Data from my 2013 Toyota Prius

1. On line 1, line 7, and line 8 of page 9, at 4.65 seconds before the impact crash, I tapped the brake pedal (line 7), causing the cruise control to turn off (line 14) and the Oil Brake Pressure (line 8), to momentarily come on, with a slight pressure of .05 Mpa.

2. On line 8, at 4.15 seconds before the crash, the computer data shows that the Brake Oil Pressure went back to Zero and stayed at Zero until .65 seconds (line 1) before impact. Line 3 shows that I was off the accelerator the entire time.

3. Line 7 data shows at 3.65 seconds before the crash, I applied the brakes and that the brakes were on all the way to the moment of impact with the vehicle in front of me, but line 8 data, shows that the Brake Oil Pressure did not come on until .65 seconds before impact! And it shows that I applied the maximum brake pressure of 12.14 Mpa (see page 3, note 3).

In conclusion, the computer crash data from my 2013 Toyota Prius, clearly shows on line 7, that I applied the brakes at 3.65 seconds before my car crashed into the car in front of me. It's obvious from the computer crash data, that I was in complete control of my vehicle before the crash and that I applied the brakes with plenty of time (3.65 seconds) to safely stop my vehicle. What the data also indicates, is that there was a cadi-strophic failure of the brake system.

I'm requesting that the charge of, "failure to control my vehicle", be removed because I did have complete control of my vehicle, but crashed because of a brake failure that was beyond my control.

Sincerely,

Note: this analysis was given to the traffic court judge because I received a citation of failure to control my vehicle, After Studying Ahis data he judg came 40 the conclusion that I was not at fault, becauge the data shows that it awas a Brake failure that was beyound My control.

ογοτα NHTSA Tracking 109 239 21

Carlos Garcia Direct Phone (310) 468-7521 Fax (310) 381-8690 **TOYOTA MOTOR NORTH AMERICA, INC.** 19001 South Western Avenue Torrance: CA 90501

		Januar	y 18, 2017		
Tucson, AZ					
RE:	Date of Loss Vohiclo VIN	• • • • • • • • •	October 28, 2 2010 Teyota JTDKN3DP4	2016 Prive D	
Dear Mr					

We appreciate you contacting Toyota's Customer Experience Center in regards to your incident.

It was reported that your 2013 Toyota Prius experienced brake failure, causing a collision with a vehicle.

In response to your concerns, Toyota Motor North America, Inc. assigned a Field Technical Specialist to inspect your vehicle November 17, 2016 at Insurance Auto Auction and obtain a copy of the Event Data Recorder (EDR) readout. Based on our inspection of your vehicle, we found no evidence that this incident was the result of any type of brake defect.

When tested, the brake pedal was operating normally. The brake components were in good condition with no brake fluid leaks. The brake fluid was below minimum - Whong level. When test driven with various braking applications, no issues were found. All the

vehicle's tires were worn. Mechlo

the opportunity to address your concerns.

Sincerely.

Wlos

I was present at the car for Investigators Inspection.

ica, Inc. analysis of Event Data done Carlos Garcia Legal Claims Administrator Toyota Motor North America, Inc. Tensioner didutivor. Saut Belt Whale second fa tien Brekez did nat indage

State of Arizona, Plaintiff		Docket Number:			• .	
		Citation Number				
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State appeared			Defendant app	eared		
By counsel,			Witnout cou	nsei, personally		
State's witness appeared		- 66	By counsel	Sec. 1		
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Initials & Date CC Form #60

Rev. 9/96

NHT SA Tracking # 109 239 21



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

BOSCH

User Entered VIN/Frame Number	JTDKN3DP4D3
User	Joseph
Case Number	
EDR Data Imaging Date	11/17/2016
Crash Date	10/17/2016
Filename	JTDKN3DP4D3 ACM.CDRX
Saved on	Thursday, November 17 2016 at 09:25:03
Collected with CDR version	Crash Data Retrieval Tool 16.6
Reported with CDR version	Crash Data Retrieval Tool 16.6
EDR Device Type	Airbag Control Module
Event(s) recovered	Front/Rear (1), Side (1)

Comments

No comments entered.

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 airb ag 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 eight 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
- 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 informati on 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

BOSCH

- 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
Maximum Delta-V, Longitudinal	Forward
Delta-V, Longitudinal	Forward
Maximum Delta-V Lateral, Side Satellite Sensor 1	Left to Right
Maximum Delta-V Lateral, Side Satellite Sensor 2	Left to Right
Maximum Delta-V Lateral, Side Satellite Sensor 3	Left to Right
Maximum Delta-V Lateral, Side Satellite Sensor 4	Left to Right
Delta-V Lateral, Side Satellite Sensor 1	Left to Right
Delta-V Lateral, Side Satellite Sensor 2	Left to Right
Delta-V Lateral, Side Satellite Sensor 3	Left to Right
Delta-V Lateral, Side Satellite Sensor 4	Left to Right
Roll Angle Peak	Clockwise Rotation
Roll Angle at the Time of TRG	Clockwise Rotation
Roll Rate	Clockwise Rotation
Lateral Acceleration, Airbag ECU Sensor *	Left to Right
Longitudinal Acceleration, VSC Sensor	Forward
Yaw Rate	Left Turn
Steering Input	Left Turn

* For sensing a rollover

1) Data Definitions:

- 2)
 - 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 "C hild" 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 Tra ck Position Switch, Foremost, Status, Driver", "Occupant Size Classification, Front Passenger", "Safety Belt Status, Driver", "S afety Belt Status, Front Passenger", "Frontal Air Bag Suppression 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 Qil 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/s² and -8.973 m/s² 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 3 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 rep air
- manual.
- For "Lateral Delta-V", the acceleration sensor installed in the airbag ECU is not used but the satellite sensor is used for the "Lateral Delta-V" calculation.
- "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 re cording 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.

05012 ToyotaS03std r025









System Status at Time of Retrieval

89170-47280
12EDR
Yes
ON
Front Airbag Deployment
No
4563
2 or greater
-0.016
16381 or greater
0
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	2	Front/Rear Crash	0	Complete (Page 0)	Complete (Front/Rear Page 0)
1st Prior Event	1	Side Crash	16	Complete (Page 0)	Complete (Side Page 0)





System Status at Event (Most Recent Event, TRG 2)

Recording Status, Front/Rear Crash Info.	Complete
Crash Type	Front/Rear Crash
TRG Count (times)	2
Previous Crash Type	Side Crash
Time from Pre-Crash TRG (msec)	3
Linked Pre-Crash Page	0
Frontal Airbag Deployment, Time to 1st Stage Deployment, Driver (msec)	
Frontal Airbag Deployment, Time to 1st Stage Deployment, Front Passenger (msec)	No
Pretensioner Deployment, Time to Fire, Driver (msec)	19
Pretensioner Deployment, Time to Fire, Front Passenger (msec)	No
Frontal Airbag Deployment, Time to 2nd Stage, Driver (msec)	49
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)	69
Side Curtain Airbag Deployment, Time to Deploy, Passenger (msec)	69
Rear Window Airbag Deployment, Time to Deploy (msec)	SNA





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

Recording Status, Time Series Data	Complete
Time from Time Zero to TRG (msec)	19.0
Length of Delta-V (msec)	180
Max. Longitudinal Delta-V (MPH [km/h])	-12.7 [-20.4]
Time, Maximum Delta-V, Longitudinal (msec)	173.5
Power Supply Status at Max. Delta-V	ON



	-		
		Data and Alata and Development of the set	
		Unver Airdad Deblovment Time	
station and street			and a family start of the second

2	Passenge	er Airbag I	Deploym	ent Time	
• • • • • • • • • • • • •			and the second se	THE REPORT OF TAXABLE PARTY.	THE OWNER ADDRESS
-					

- ssenger Pretensione
- Driver 2nd Stage Airbag Deployment Time Passenger 2nd Stage Airbag Deployment 5
- Driver/Passenger AHR
- Driver/Passenger CSA Rear Window Airbag Deployment Time 7
- 8



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

in setter

Longitudinal Delta-V	
(MPH [km/h])	Power Supply Status
0.0 [0.0]	ON
-0.3 [-0.6]	ON
-1.5 [-2.5]	ON
-2.4 [-3.9]	• ON
-3.4 [-5.5]	ON
-4.1 [-6.6]	ON
-5.3 [-8.6]	ON
-6.3 [-10.2]	ON
-7.5 [-12.1]	ON
-8.6 [-13.8]	ON
-9.4 [-15.2]	ON
-10.6 [-17.1]	ON
-11.3 [-18.2]	ON
-11.8 [-19.0]	ON
-12.2 [-19.6]	ON
-12.3 [-19.9]	ON
-12.5 [-20.1]	ON
-12.5 [-20.1]	ON
-12.7 [-20.4]	ON
	i i i i i i i i i i i i i i i i i i i
ti de la companya de	
	- ON
	Longitudinal Delta-V (MPH [km/h]) 0.0 [0.0] -0.3 [-0.6] -1.5 [-2.5] -2.4 [-3.9] -3.4 [-5.5] -4.1 [-6.6] -5.3 [-8.6] -6.3 [-10.2] -7.5 [-12.1] -8.6 [-13.8] -9.4 [-15.2] -10.6 [-17.1] -11.3 [-18.2] -11.8 [-19.0] -12.2 [-19.6] -12.3 [-19.9] -12.5 [-20.1] -12.5 [-20.1] -12.5 [-20.4] 0.0 0.0 0 0.0 0.0 0 0.0 0.0 0 0.0 0.0 0





DTCs Present at Time of Event (Most Recent 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 (Most Recent Event, TRG 2)

Recording Status, Pre-Crash/Occupant	Complete
Time from Pre-Crash to TRG (msec)	150
Safety Belt Status, Driver	ON
Safety Belt Status, Front Passenger	OFF
Occupant Size Classification, Front Passenger	Not Occupied
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)	4553

BOSCH

Line	ク 「Pre <u>-Cr</u> ash D	ata, -5 to 0	seco <u>nd</u> s (l	Most Rece	nt Event, T	RG 2)						
11	Time (sec)	-4.65	-4.15	-3.65	-3.15	-2.65	-2.15	-1.65	-1.15	-0.65	-0.15	0 (TRG)
2,	Vehicle Speed (MPH [km/h])	44.1 [71]	43.5 [70]	42.9 [69]	42.3 [68]	41.6 [67]	41 [66]	39.8 [64]	39.1 [63]	32.9 [53]	21.7 [35]	20.5 [33]
3.	Accelerator Pedal, % Full (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.	Percentage of Engine Throttle (%)	Invalid	invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid
5,	Engine RPM (RPM)	1,100	1,100	1,000	1,100	600	100	0	0	0	0	0
<i>b</i> .	Motor RPM (RPM)	5,200	5,100	5,000	4,900	4,900	4,800	4,700	4,600	3,800	2,600	2,400
7.	Service Brake, ON/OFF	ON	OFF	ON								
8.	Brake Oil Pressure (Mpa)	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.14	12.14	12.14
9.	Longitudinal Acceleration VSC Sensor (m/sec^2)	-0.933	-0.646	-0.574	-0.790	-0.790	-0.718	-0.646	-0.718	-8.326	-8.111	-8.973
10.	Yaw Rate (deg/sec)	0.00	0.98	0.49	0.00	0.00	0.00	0.00	0.00	3.42	0.00	0.00
11	Steering Input (degrees)	0	6	3	0	0	0	0	0	9	-9	0
12	Shift Position	D	D	D	D	D	D	D	D	D	D	D
13	Sequential Shift Range	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined
14	Status	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
15	Drive Mode, PWR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
16	Drive Mode, ECO	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
17	Drive Mode, Sport	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
18	Drive Mode, Snow	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

JTDKN3DP4D3



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JTDKN3DP4D3

| Drive Mode, EV | OFF |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Fuel Injection
Quantity
(mm3/st) | Invalid |

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

Recording Status, Side Crash Info.	Complete
Crash Type	Side Crash
TRG Count (times)	1
Previous Crash Type	No Event
Time from Pre-Crash TRG (msec)	0
Linked Pre-Crash Page	0
Side Airbag Deployment, Time to Deploy (If Equipped) (msec)	No
Side Curtain Airbag Deployment, Time to Deploy (If Equipped) (msec)	No
Pretensioner Deployment, Time to Fire (msec)	SNA
Rear Window Airbag Deployment, Time to Deploy (msec)	SNA





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

Recording Status, Time Series Data	Complete
Recorded Side	Right Side
Time from TRG to Next Sample (msec)	3
Location of Side Satellite Sensor 1	Not Equipped
Location of Side Satellite Sensor 2	B-Pillar
Location of Side Satellite Sensor 3	Not Equipped
Location of Side Satellite Sensor 4	C-Pillar
Maximum Delta-V Lateral, Side Satellite Sensor 1 (MPH [km/h])	N/A
Maximum Delta-V Lateral, Side Satellite Sensor 2 (MPH [km/h])	0.3 [0.4]
Maximum Delta-V Lateral, Side Satellite Sensor 3 (MPH [km/h])	N/A
Maximum Delta-V Lateral, Side Satellite Sensor 4 (MPH [km/h])	-0.6 [-1.0]



Deployment Time Marker Key 1 Driver/Passenger Pretensioner Side Airbag 2 3

Rear Window Airbag Deployment Time







Deployment Time Marker Key
Driver/Passenger Pretensioner Side Airbag Rear Window Airbag Deployment Time 23







Deployment Time Marker Key 1 Side Curtain Airbag







Deployment Time Marker Key





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

	Delta-V Lateral, Side	Delta-V Lateral, Side	Delta-V Lateral, Side	Delta-V Lateral, Side
	Satellite Sensor 1	Satellite Sensor 2	Satellite Sensor 3	Satellite Sensor 4
Time (msec)	(MPH [km/h])	(MPH [km/h])	(MPH [km/h])	(MPH [km/h])
-21	SNA [SNA]	0.0 [0.0]	SNA [SNA]	0.0 [0.0]
-17	SNA [SNA]	0.0 [0.0]	SNA [SNA]	0.0 [0.0]
-13	SNA [SNA]	0.0 [0.0]	SNA [SNA]	0.0 [0.0]
-9	SNA [SNA]	0.0 [0.0]	SNA [SNA]	0.0 [0.0]
-5	SNA [SNA]	0.0 [0.0]	SNA [SNA]	0.0 [0.0]
-1	SNA [SNA]	0.0 [0.0]	SNA [SNA]	-0.1 [-0.1]
3	SNA [SNA]	-0.1 [-0.2]	SNA [SNA]	-0.2 [-0.3]
7	SNA [SNA]	0.1 [0.2]	SNA [SNA]	-0.2 [-0.3]
11	SNA [SNA]	0.3 [0.4]	SNA [SNA]	-0.3 [-0.4]
15	SNA [SNA]	0.0 [0.0]	SNA [SNA]	-0.3 [-0.4]
19	SNA [SNA]	0.0 [0.0]	SNA [SNA]	-0.3 [-0.4]
23	SNA [SNA]	0.1 [0.2]	SNA [SNA]	-0.3 [-0.6]
27	SNA [SNA]	-0.1 [-0.2]	SNA [SNA]	-0.4 [-0.7]
31	SNA [SNA]	-0.3 [-0.4]	SNA [SNA]	-0.4 [-0.7]
35	SNA [SNA]	-0.1 [-0.2]	SNA [SNA]	-0.5 [-0.8]
39	SNA [SNA]	-0.3 [-0.4]	SNA [SNA]	-0.5 [-0.8]
43	SNA [SNA]	-0.3 [-0.4]	SNA [SNA]	-0.5 [-0.8]
47	SNA [SNA]	-0.1 [-0.2]	SNA [SNA]	-0.5 [-0.8]
51	SNA [SNA]	-0.1 [-0.2]	SNA [SNA]	-0.5 [-0.8]
55	SNA [SNA]	-0.1 [-0.2]	SNA [SNA]	-0.5 [-0.8]
59	SNA [SNA]	-0.1 [-0.2]	SNA [SNA]	-0.5 [-0.8]
63	SNA [SNA]	-0.1 [-0.2]	SNA [SNA]	-0.6 [-1.0]
67	SNA [SNA]	-0.1 [-0.2]	SNA [SNA]	-0.6 [-1.0]
71	SNA [SNA]	-0.1 [-0.2]	SNA [SNA]	-0.6 [-1.0]





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

Recording Status, Pre-Crash/Occupant	Complete
Time from Pre-Crash to TRG (msec)	150
Safety Belt Status, Driver	ON
Safety Belt Status, Front Passenger	OFF
Occupant Size Classification, Front Passenger	Not Occupied
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)	4553

BOSCH

Time (sec)	-4.65	-4.15	-3.65	-3.15	-2.65	-2.15	-1.65	-1.15	-0.65	-0.15	0 (TRG)	
Vehicle Speed (MPH [km/h])	44.1 [71]	43.5 [70]	42.9 [69]	42.3 [68]	41.6 [67]	41 [66]	39.8 [64]	39.1 [63]	32.9 [53]	21.7 [35]	20.5 [33]	
Accelerator Pedal, % Full (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Percentage of Engine Throttle (%)	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid Invalid		Invalid	Invalid	Invalid	Invalid	
Engine RPM (RPM)	1,100	1,100	1,000	1,100	600	100	100 0		0	0	0	
Motor RPM (RPM)	5,200	5,100	5,000	4,900	4,900	4,800	4,700	4,600	3,800	2,600	2,400	
Service Brake, ON/OFF	ON	OFF	- ON ON		ON	ON	ON	ON	ON	ON	ON	
Brake Oil Pressure (Mpa)	0.05	0.00	0.00	0.00	0.00	0.00	0.00 0.00		12.14	12.14	12.14	
Longitudinal Acceleration, VSC Sensor (m/sec ²)	-0.933	-0.646	-0.574	-0.790	-0.790	-0.718	-0.646	-0.718	-8.326	-8.111	-8.973	
Yaw Rate (deg/sec)	0.00	0.98	0.49	0.00	0.00	0.00	0.00	0.00	3.42	0.00	0.00	
Steering Input (degrees)	0	6	3	0	0	0	0	0	9	-9	0	
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	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
Drive Mode, ECO	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
Drive Mode, Sport	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
Drive Mode, Snow	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

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

JTDKN3DP4D

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JTDKN3DP4D

| Drive Mode, EV | OFF |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Fuel Injection
Quantity
(mm3/st) | Invalid |

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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 00	Da BC	ta 60	00	01																		
	01	00		• •		• •			• •			• •	• •	• •			2.0	2.0	24	4.5	26	2.0	20
	03	34	37 45	32	38	30	30	30 45	30	45 30	43	30	30 45	30 38	45	4,3	30	30	30	45	36	30	.30
	04	02	02	01	01	00	00	10	•••														
	05 06	01																					
	08 0A	01																					
	0B	00																					
	20	80	00 0 F	00	01																		
	40	00	00	00	01																		
	60	FF	FF	FO	01														• •		~ ~		
	61	02	03	E8 00	00	88	80	05	00	00	00	00	00	03	55	03	55	00	00	00	00	05	00
	62	A5	01	3F	FD	11	D3	00	00	00	00												
	63	. 55	80	11	C9	10	10	00	00	11	11	11	11	11	10	47	46	45	44	43 0 D	42	40 0D	3F
		35 01	23 00	21 00	00	00	00	00	00	00	00	00	00	00	0.0	45	55	54	ÛВ	UВ	UA	UΒ	06
	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
	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	0.0	00	00	00	00	00	00					
	67 68	55	10	03	00	02	13	13	13	1E	1E	55	FD	FD	00	45							
	69	00	26	13	00	00	00	02	00	09	00	0E	00	14	00	18	00	1F	00	25	00	2C	00
		32	00	37	00	3E	00	42	00	45	00	47	00	48	00	49	00	49	00	4A	00	00	00
	6A	00	00	00	00	00	00	00	00	00	00	00	00	4A 00	00	00	00	00	00	00	00	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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	60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	~ ^	• •	~ ~	0.0	~ ~	0.0	0.0
	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			-				
	6D	00	00	00	00	00	00	01	FE	FF	02	00	FF	02	01	FF	01	00	FF	00	00	00	00
		00	01	00	00	00	FE	00	01	01	00	01	00	00	01	01	00	01	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
	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
	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
	71	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	0.0	00	00	00	0.0	00
	71	00	00	00	00	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
	73	00	00	00	00	00	0.0	00	00	00 FD	00 FD	UU FD	00	00	00	00	00	00	00	00	03	FD	00
		00	02	01	00	00	00	00	00	07	00	00	F3	F7	F8	F5	F5	F6	F7	F6	8C	8F	83
	74	FE	FE	FE	FE	FE	FE	FE	FE	FE	FE	FE	00	00	00	00	00	00	00	0.0	00	00	0.0
	14	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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80	00	00	00	01																		
A0	0C	00	00	01																		
A5 .	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	7F	7E	7D	7C	7C	7B	7A	79	71	65	63	14	14	14	14	14	14	14	14	14	14	14
	FE	\mathbf{FE}	FE	FE.	\mathbf{FE}																	
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	00	00	00	00	00	00	00	00	00	00	00											





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