

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	1FAHP3E23CL227637
User	
Case Number	MC0201
EDR Data Imaging Date	11/29/2011
Crash Date	
Filename	(7470) 12 FORD FOCUS.CDRX
Saved on	Tuesday, November 29 2011 at 11:25:58
Collected with CDR version	Crash Data Retrieval Tool 4.2
Reported with CDR version	Crash Data Retrieval Tool 11.1.1
EDR Device Type	Airbag Control Module
ACM Adapter Detected During Download	Yes
Event(s) recovered	locked side event

Comments

No comments entered.

The retrieval of this data has been authorized by the vehicle's owner, or other legal authority such as a court order or search warrant, as indicated by the CDR tool user on Tuesday, November 29 2011 at 11:25:58.

Data Limitations

Restraints Control Module Recorded Crash Events:

Deployment Events cannot be overwritten or cleared from the Restraints Control Module (RCM). Once the RCM has deployed any airbag device, the RCM must be replaced. The data from events which did not qualify as deployable events can be overwritten by subsequent events. The RCM can store up to two deployment events.

Airbag Module Data Limitations:

- Restraints Control Module Recorded Vehicle Forward Velocity Change reflects the change in forward velocity that the sensing system experienced from the point of algorithm wake up. It is not the speed the vehicle was traveling before the event. Note that the vehicle speed is recorded separately five seconds prior to algorithm wake up. This data should be examined in conjunction with other available physical evidence from the vehicle and scene when assessing occupant or vehicle forward velocity change.
- Event Recording Complete will indicate if data from the recorded event has been fully written to the RCM memory or if it has been interrupted and not fully written.
- If power to the Airbag Module is lost during a crash event, all or part of the crash record may not be recorded.
- For 2011 Ford Mustangs, the Steering Wheel Angle parameter indicates the change in steering wheel angle from the previously recorded sample value and does not represent the actual steering wheel position.

Airbag Module Data Sources:

- Event recorded data are collected either INTERNALLY or EXTERNALLY to the RCM.
 - INTERNAL DATA is measured, calculated, and stored internally, sensors external to the RCM include the following:
 - > The Driver and Passenger Belt Switch Circuits are wired directly to the RCM.
 - > The Driver's Seat Track Position Switch Circuit is wired directly to the RCM.
 - > The Side Impact Sensors (if equipped) are located on the side of vehicle and are wired directly to the RCM.
 - > The Occupant Classification Sensor is located in the front passenger seat and transmits data directly to the RCM on high-speed CAN bus.
 - > Front Impact Sensors (right and left) are located at the front of vehicle and are wire directly to the RCM.
 - EXTERNAL DATA recorded by the RCM are data collected from the vehicle communication network from various sources such as Powertrain Control Module, Brake Module, etc.

02007_RCM-RC6_r002

System Status at Time of Retrieval

VIN As Programmed into RCM at Factory	1FAHP3E23CL227637
Current VIN from PCM	1FAHP3E23CL227637
Ignition Cycle, Download (First Record)	95
Ignition Cycle, Download (Second Record)	N/A
Restraints Control Module Part Number	CM5T-14B321-AF
Restraints Control Module Serial Number	000707624543
Restraints Control Module Software Part Number (Version)	CM5T-14C028-AF
Driver Side/Center Frontal Restraints Sensor Serial Number	B304EA591B21
Driver, Row 1, Side Restraint Sensor 1 Serial Number	C70531272319
Driver, Row 2, Side Restraint Sensor 2 Serial Number	9D04B0DC1635
Passenger Frontal Restraints Sensor Serial Number	B304EA59202C
Passenger, Row 1, Side Restraint Sensor 1 Serial Number	C10538E8482C
Passenger, Row 2, Side Restraint Sensor 2 Serial Number	9B04B0DC2D1B

System Status at Event (First Record)

Complete File Recorded (Yes,No)	Yes
Multi-Event, Number of Events	1
Time From Event 1 to 2 (msec)	N/A
Lifetime Operating Timer at Event Time Zero (sec)	29.173
Key-On Timer at Event Time Zero (sec)	654
Vehicle Voltage at Time Zero (V)	12.76
Energy Reserve Mode Entered During Event (Yes, No)	No

Faults Present at Start of Event (First Record)

No Faults Recorded

Deployment Data (First Record)

Belt tensioner deployment, time to 1st stage, driver (msec)	1.0
Side airbag deployment, time to 1st stage, driver (msec)	1.0
Curtain airbag deployment, time to 1st stage, driver (msec)	1.0
Maximum Delta-V, Longitudinal (MPH [km/h])	-3.7 [-6]
Time, Maximum Delta-V Longitudinal (msec)	90
Driver Row 1, Side Sensor, Discriminating Deployment	Yes
Driver Row 3, Side Sensor, Discriminating Deployment	Yes
Driver Row 3, Side Sensor, Safing	Yes
RCM, Side Driver (Lateral), Safing	Yes
RCM Side Passenger (Lateral), Safing	Yes

Pre-Crash Data -1 sec (First Record)

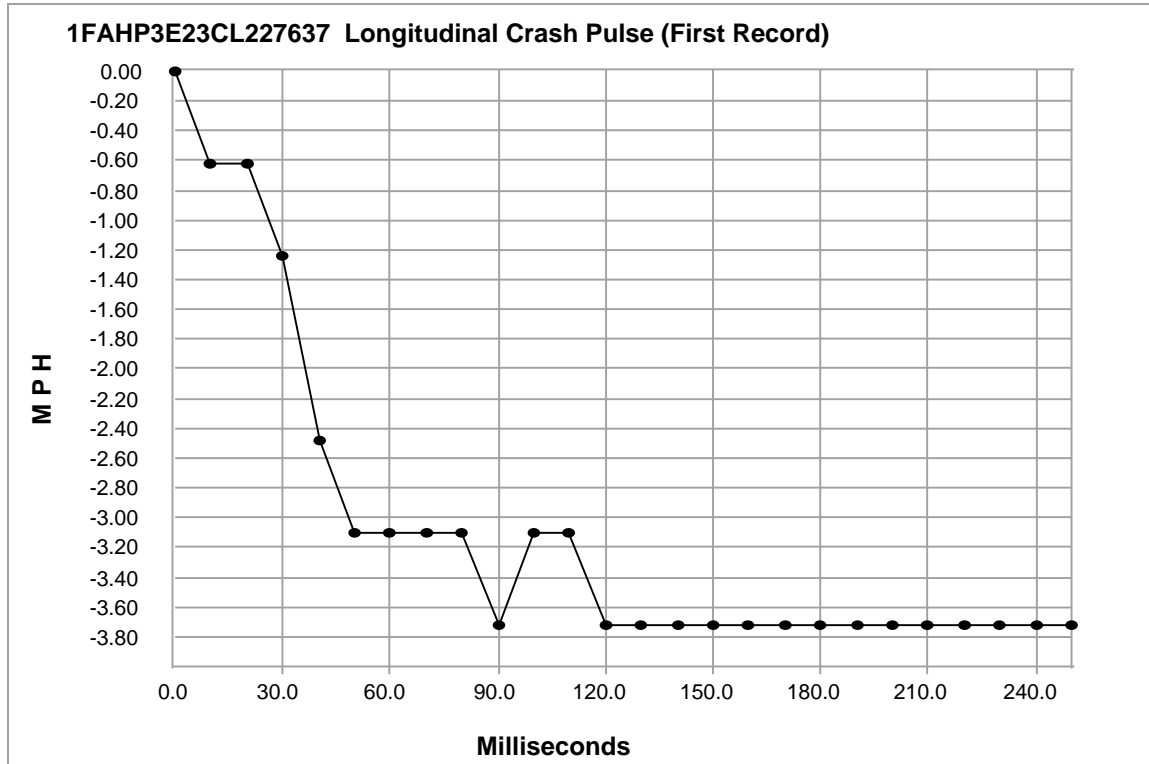
Ignition cycle, Crash	93
Frontal Air Bag Warning Lamp, On/Off	Off
Occupant Size Classification, Front Passenger (Child size Yes/No [Hex value])	No [\$00]
Safety Belt Status, Driver	Buckled
Seat Track Position Switch, Foremost, Status, Driver	Not Forward
Seat Track Position Switch, Foremost, Status, Front Passenger	Not Forward
Safety Belt Status, Front Passenger	Unbuckled
Brake Telltale	Off
ABS Telltale	Off
ESC/TC Telltale	Off
ESC/TC Off Telltale	Off
Speed Control Telltale	Off
Powertrain Wrench Telltale	Off
Powertrain Malfunction Indicator Lamp (MIL) Telltale	On

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

Time (sec)	Speed, Vehicle Indicated (MPH [km/h])	Accelerator Pedal, % Full	Service Brake, On/Off	Engine RPM	ABS Activity (Engaged, Non-Engaged)	Brake Powertrain Torque Request	Traction Control via Brakes	Wheel Torque (N-m)	Driver Gear Select (Auto Trans)
- 5.0	0.0 [0.0]	0.0	Off	0	non-engaged	No	non-engaged	760	Neutral
- 4.5	0.0 [0.0]	0.0	Off	0	non-engaged	No	non-engaged	760	Neutral
- 4.0	0.0 [0.0]	0.0	Off	0	non-engaged	No	non-engaged	760	Neutral
- 3.5	0.0 [0.0]	0.0	Off	0	non-engaged	No	non-engaged	760	Neutral
- 3.0	0.0 [0.0]	0.0	Off	0	non-engaged	No	non-engaged	760	Neutral
- 2.5	0.0 [0.0]	0.0	Off	0	non-engaged	No	non-engaged	760	Neutral
- 2.0	0.0 [0.0]	0.0	Off	0	non-engaged	No	non-engaged	760	Neutral
- 1.5	0.0 [0.0]	0.0	Off	0	non-engaged	No	non-engaged	760	Neutral
- 1.0	0.0 [0.0]	0.0	Off	0	non-engaged	No	non-engaged	760	Neutral
- 0.5	0.0 [0.0]	0.0	Off	0	non-engaged	No	non-engaged	760	Neutral
0.0	0.6 [1.0]	5.1	Off	200	engaged	No	non-engaged	-131,072	Park or Manual

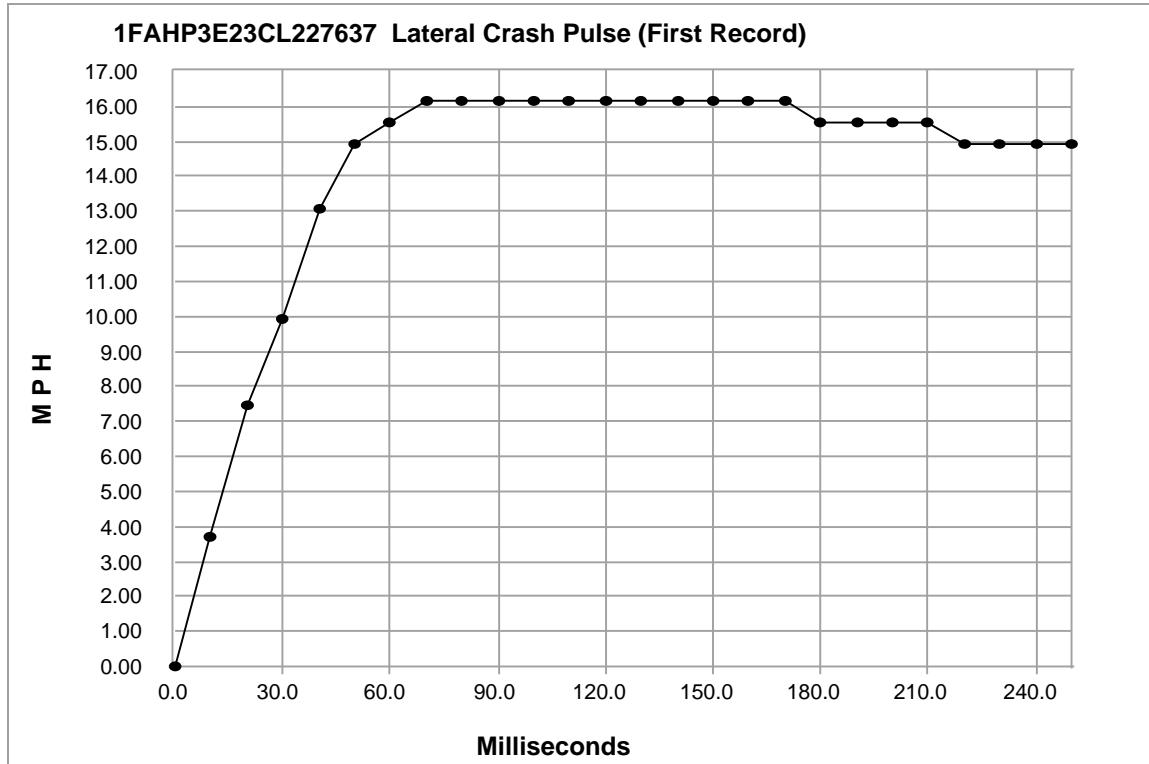
Pre-Crash Data -5 to 0 sec [10 samples/sec] (First Record)

Time (sec)	Stability Control Lateral Acceleration (g)	Stability Control Longitudinal Acceleration (g)	Stability Control Yaw Rate (deg/sec)
- 5.0	0.00	0.00	0.00
- 4.9	0.00	0.00	0.00
- 4.8	0.00	0.00	0.00
- 4.7	0.00	0.00	0.00
- 4.6	0.01	0.00	0.00
- 4.5	0.01	0.00	0.00
- 4.4	0.01	0.00	0.00
- 4.3	0.00	0.00	0.00
- 4.2	0.00	0.00	0.00
- 4.1	0.00	0.00	0.00
- 4.0	0.00	0.00	0.00
- 3.9	0.00	0.00	0.00
- 3.8	0.00	0.00	0.00
- 3.7	0.01	0.00	0.00
- 3.6	0.01	0.00	0.00
- 3.5	0.00	0.00	0.00
- 3.4	0.00	0.00	0.00
- 3.3	0.01	0.00	0.00
- 3.2	0.01	0.00	0.00
- 3.1	0.00	0.00	0.00
- 3.0	0.00	0.00	0.00
- 2.9	0.00	0.00	0.00
- 2.8	0.00	0.00	0.00
- 2.7	0.00	0.00	0.00
- 2.6	0.00	0.00	0.00
- 2.5	0.00	0.00	0.00
- 2.4	0.00	0.00	0.00
- 2.3	0.00	0.00	0.00
- 2.2	0.00	0.00	0.00
- 2.1	0.01	0.00	0.00
- 2.0	0.01	0.00	0.00
- 1.9	0.00	0.00	0.00
- 1.8	0.00	0.00	0.00
- 1.7	0.01	0.00	0.00
- 1.6	0.01	0.00	0.00
- 1.5	0.00	0.00	0.00
- 1.4	0.01	0.00	0.01
- 1.3	0.00	0.00	0.00
- 1.2	0.01	0.00	0.00
- 1.1	0.01	0.00	0.00
- 1.0	0.00	0.00	0.00
- 0.9	0.00	0.00	0.00
- 0.8	0.00	0.00	0.00
- 0.7	0.01	0.00	0.00
- 0.6	0.00	0.00	0.00
- 0.5	0.01	0.00	0.00
- 0.4	0.00	0.00	0.00
- 0.3	0.00	0.00	0.00
- 0.2	0.00	0.00	0.00
- 0.1	0.00	0.00	0.00
0.0	0.00	0.00	0.00



Longitudinal Crash Pulse (First Record)

Time (msec)	Delta-V, longitudinal (MPH)	Delta-V, longitudinal (km/h)
0	0.0	0
10	-0.6	-1
20	-0.6	-1
30	-1.2	-2
40	-2.5	-4
50	-3.1	-5
60	-3.1	-5
70	-3.1	-5
80	-3.1	-5
90	-3.7	-6
100	-3.1	-5
110	-3.1	-5
120	-3.7	-6
130	-3.7	-6
140	-3.7	-6
150	-3.7	-6
160	-3.7	-6
170	-3.7	-6
180	-3.7	-6
190	-3.7	-6
200	-3.7	-6
210	-3.7	-6
220	-3.7	-6
230	-3.7	-6
240	-3.7	-6
250	-3.7	-6



Lateral Crash Pulse (First Record)

Time (msec)	Delta-V, lateral (MPH)	Delta-V, lateral (km/h)
0	0.0	0
10	3.7	6
20	7.5	12
30	9.9	16
40	13.0	21
50	14.9	24
60	15.5	25
70	16.2	26
80	16.2	26
90	16.2	26
100	16.2	26
110	16.2	26
120	16.2	26
130	16.2	26
140	16.2	26
150	16.2	26
160	16.2	26
170	16.2	26
180	15.5	25
190	15.5	25
200	15.5	25
210	15.5	25
220	14.9	24
230	14.9	24
240	14.9	24
250	14.9	24

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.

04 00 00 00

43 4D 35 54 2D 31 34 42 33 32 31 2D 41 46 00 00 00 00 00 00 00 00 00 00

30 30 30 37 30 37 36 32 34 35 34 33 00 00 00 00

43 4D 35 54 2D 31 34 43 30 32 38 2D 41 46 00 00 00 00 00 00 00 00 00

42 33 30 34 45 41 35 39 31 42 32 31 00 00 00 00

43 37 30 35 33 31 32 37 32 33 31 39 00 00 00 00

39 44 30 34 42 30 44 43 31 36 33 35 00 00 00 00

42 33 30 34 45 41 35 39 32 30 32 43 00 00 00 00

43 31 30 35 33 38 45 38 34 38 32 43 00 00 00 00

39 42 30 34 42 30 44 43 32 44 31 42 00 00 00 00

31 46 41 48 50 33 45 32 33 43 4C 32 32 37 36 33 37

31 46 41 48 50 33 45 32 33 43 4C 32 32 37 36 33 37 00 00 00 00 00 00 00

Event Record 1

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03 00 00 00 04 01 01 FF FF 00 04 02 01 FF FF 00 06 FD 03 FF FF 00 07 06 00 FF
FF 00 08 FD 02 FF FF 00 08 05 03 FF FF 00 09 FC 00 FF FF 00 09 01 03 FF FF 00
0A FE 03 FF FE 00 0A FF 01 FF FE 00 0B FC FF FF FE 00 0C 01 03 FF FF 00 0C FF
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10 FF FB FF FE 00 10 00 FC FF FE 00 11 01 FE FF FE 00 11 FE FF FE 00 12 02
FF FF FD 00 12 03 00 FF FD 00 12 02 02 FF FD 00 12 04 02 FF FD 00 13 03 02 FF
FD 00 13 02 02 FF FC 00 14 03 03 FF FC 00 15 01 03 FF FC 00 15 01 03 FF FC 00
16 00 03 FF FC 00 16 01 03 FF FC 00 16 03 02 FF FC 00 17 01 01 FF FC 00 17 02
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FF 43 00 1D FE 49 00 E5 FA 4C 00 CD F5 4C 00 F8 F2 4C 00 1F F2 4A 00 28 F5 42
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08 00 FB 4C 07 05 00 4C 07 16 FE 4C 08 0B FB 4C 08 0B FD 4C 08 0C F7 4C 05 09
F7 4C 04 0B FD 4C 05 01 F9 4C 06 FB F9 4C 05 FF 01 4C 04 09 F9 4C 04 0D F8 4C
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FC 33 00 25 03 33 FF 0B FC 35 FF F1 FA 35 FF FB F5 34 00 08 F3 32 FF F5 FB 31
FF 03 04 35 FE 08 FD 36 FE FE F9 30 FE 02 FB 2C FE 04 F7 2B FE 09 FA 2B FF 05
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00 00 00 00 00 64 00 47 00 00 00 00 00 64 00 32 00 00 00 00 00 64 00 1F 00 00
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00 64 00 29 FF FE 00 00 00 64 00 26 00 00 00 00 00 64 00 32 00 00 00 00 00 64
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