August 15, 2014



Frank S. Borris II, Director Office of Defects Investigation 1200 New Jersey Avenue, S.E. Washington, DC 20590

## *Re: Petition DP14-001, Supplement #2*

Dear Mr. Borris:

This letter supplements Petition DP14–001 in three areas: 1.) Clarifies the parameters for a search basis of the defective algorithm, 2.) Provides an estimate of the number of vehicles affected, 3.) Requests NHTSA to obtain production volumes of the occupant classification system with the defective algorithm.

1.) A 2010 study identifies environmental factors of NASS and FARS cases associated with nondeployment. [SAE 2010-01-1048 "Characteristics of Frontal Crashes with Serious Injuries and Airbag Non-deployment"]. These factors are often: contacts with curbs, berms or guardrails immediately preceding an impact with a pole or tree. The examples are GM vehicles.

Attached is a General Motors CDR download of a 2010 Chevrolet Tahoe accident which, as in the Martinez case, misclassified the right front passenger as a small adult in the last second (no significant delta V or injury).

A review of the previously submitted FARS files of all non-deployment events, indicates that 40% are GM vehicles, 20% are Ford vehicles and 10% are Toyota vehicles.

In summary searches should be for a GM non deployment impact preceded by a curb, berm or guardrail contact with a small occupant classification.

2.) Confidential information leads the petitioner to believe that the defective algorithm exists in most GM vehicles at least from 2006 to the present. During that eight year period GM produced about 3.5 million vehicles per year or an estimated total of about 25 million vehicles.

GM vehicles understood to have the defective algorithm are 2006 to 2013 platforms including:

GMT 800 - Chevrolet Silverado, GMC Sierra GMT 610 - Chevrolet Express, GMC Savannah GMX 270 - Cadillac Deville GMT 265 - Cadillac SRX NS V8 RHD/LHD, Cadillac SRX 3.6l V6 GMT 355 - Chevrolet Colorado, GMC Canyon GMX 215 - Cadillac XLR GMX 320 - Cadillac CTS GMX 245 - Chevrolet Corvette GMX 211 - Chevrolet Impala

3.) The petitioner requests that ODI/NHTSA demand from Delphi the number of control modules produced by vehicle model and model year, with the same occupant classification algorithm identified by Delphi in the April 2012 download of the Martinez v. GM 2008 Chevrolet Impala vehicle. While this may not indicate the number of casualties it will identify the number of vehicles to be recalled with the potential for injury.

I would be pleased to facilitate your investigation any way I can.

Sincerely,

Donald Friedman

Encl. Attachment 1: CDR of 2010 Chevrolet Tahoe

cc: Clarence Ditlow, Center for Auto Safety Tom Krisher, Associated Press Nick Choate, Senator McCaskill Michal Freedhoff, Senator Markey Joel Kelsey, Senator Blumenthal Vanessa O'Connell, Wall Street Journal Richard Gardella, NBC News





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	1GNMCAE37AR132226
User	PHILLIP NOTTINGHAM
Case Number	733835
EDR Data Imaging Date	11/09/2011
Crash Date	08/20/2011
Filename	1GNMCAE37AR132226_ACM.CDRX
Saved on	Wednesday, November 9 2011 at 16:17:44
Collected with CDR version	Crash Data Retrieval Tool 4.1.1
Reported with CDR version	Crash Data Retrieval Tool 4.1.1
EDR Device Type	Airbag Control Module
Event(s) recovered	Non-Deployment, Deployment, Deployment

### Comments

- 8790 CROWNHILL BLVD, SAN ANTONIO, TX
- DLC USED
- BATTERY PACK USED TO POWER VEHICLE SYSTEMS
- SIR LAMP: FLASHED ON AND OFF AND REMAINED ON
- MILEAGE: 50,715

- ATTENDED BY: DAN MORROW (GUERRA LAW FIRM REP), YVONNE HERNANDEZ (BROCK, PERSON, GUERRA, AND REYNA), STEVE HOWARD (REP DOLLAR THRIFTY), KELLEY ADAMSON (ADAMSON ENGINEERING), JOY TULL (HARTLINE), PATRICK WOLTER (REP LUCKY SEAFOOD).

#### **Data Limitations**

#### **Recorded Crash Events:**

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

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

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

There are also two types of recorded crash events for Rollover Events. The first is the Non-Deployment (Non-rollover) Event. A Non-Deployment Event records data but does not deploy the air bag(s). A Non-Deployment Event contains Pre-Crash and Crash data. Non-Deployment Rollover event follow the same rules as FSR Non-Deployment events. The SDM can store up to three Events. Once the SDM records a combination of three Deployment or locked Non-Deployment Events, the SDM must be replaced.

#### Data:

For FSR Events, SDM Recorded Vehicle Velocity Change reflects the change in velocity that the sensing system experienced during the recorded portion of the event. SDM Recorded Vehicle Velocity Change is the change in velocity during the recording time and is not the speed the vehicle was traveling before the event, and is also not the Barrier Equivalent Velocity. For Deployment Events, the SDM will record 220 milliseconds of data after the Deployment criteria is met and up to 70 milliseconds before the Deployment criteria is met. For Non-Deployment Events, the SDM will record the first 300 milliseconds of data after algorithm enable. Velocity Change data is displayed in SAE sign convention. For Rollover Events, the SDM may record Lateral Acceleration, Vertical Acceleration, and Roll Rate data, if the SDM is rollover capable. This data reflects what the sensing system experienced during the recorded portion of the event. For Non-Deployment (Non-rollover) Events, the SDM will record 750 milliseconds of data before the Deployment criteria is met and 250 milliseconds after the Deployment criteria is met. Vehicle Recorded Acceleration and Roll Rate data are displayed in SAE sign convention.





-Time Between Events is recorded at a 10 millisecond sample rate and is displayed in seconds for a maximum time of 655.33 seconds. The counter measures from the start of one event to the start of the next event, if both events occur within the same ignition cycle.

-The CDR tool displays time from Algorithm Enable (AE) to time of Deployment command in a Deployment event and AE to time of maximum SDM recorded vehicle velocity change in a Non-Deployment event. Time from AE begins when the first air bag system enable threshold is met and ends when Deployment command criteria is met or at maximum SDM recorded vehicle velocity change. Any air bag systems may be a source of an enable.

-Time From Algorithm Enable to Maximum SDM Recorded Vehicle Velocity Change is captured when the largest, absolute value of either the Longitudinal or Lateral Recorded Vehicle Velocity Change occurs. The Maximum may occur between the recorded 10 millisecond sample points.

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

-SDM Recorded Vehicle Speed accuracy can be affected by various factors, including but not limited to the following: -Significant changes in the tire's rolling radius

-Final drive axle ratio changes

-Wheel lockup and wheel slip

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

-Pre-Crash data is recorded asynchronously.

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

-The SDM receives a message with an "invalid" flag from the module sending the pre-crash data

-Pre-Crash Electronic Data Validity Check Status indicates "Data Not Available" if:

-No data is received from the module sending the pre-crash data

-Belt Switch Circuit Status indicates the status of the seat belt switch circuit.

-The ignition cycle counter will increment when the power mode cycles from OFF/Accessory to RUN. Applying and removing of battery power to the module will not increment the ignition cycle counter.

-Ignition Cycles Since DTCs Were Last Cleared can record a maximum value of 253 cycles and can only be reset by a scan tool.

-Deployment Event Counter tracks the number of Deployment events that have occurred during the SDM's lifetime. -Event Counter tracks the number of qualified events (either Deployments, Non-deploy, or Rollover events) that have occurred during the SDM's lifetime.

-The Algorithm Enable to Deployment Command Criteria Met times for the following will be indicated for whichever occurs first:

-Driver Thorax or Driver Curtain

-Passenger Thorax or Passenger Curtain

-Driver Pretensioner Loop #1 or Driver Pretensioner Loop #2

-Passenger Pretensioner Loop #1 or Passenger Pretensioner Loop #2

-All data should be examined in conjunction with other available physical evidence from the vehicle and scene

#### Data Source:

All SDM recorded data is measured, calculated, and stored internally, except for the following:

-Vehicle Status Data (Pre-Crash) is transmitted to the SDM, by Body Control Module, via the vehicle's communication network.

-The Belt Switch Circuit is wired directly to the SDM.

01041\_SDM11-delphi\_r007





## **Event Data (General)**

Ignition Cycles At Investigation	3996
ESS # 1 Traceability Data	AU447039315011EC
ESS # 2 Traceability Data	AT44703931000E06
ESS # 3 Traceability Data	AH274429303013FA
ESS # 4 Traceability Data	AJ274429303013FD
ESS # 5 Traceability Data	DA44704931500DD0
ESS # 6 Traceability Data	DB44704931500E60
ESS # 7 Traceability Data	??0000000000000000000000000000000000000
ESS # 8 Traceability Data	??0000000000000000000000000000000000000
Vehicle Identification Number	?GNMCAE37AR132226
System Type	Delphi
Manufacturing Traceability Data	AS0674KZ932830PJ
Software Module Identifier 1	00CE1158
Software Module Identifier 2	013F0403
Software Module Identifier 3	01AE4BE4
End Model Part Number	00CE0102





# Event Data (Event Record 1)

Event Record Type         Non-Deployment           Orash Recording Complete - Deployment Status Data         No           Data Recording Complete - Doll Recorded Vehicle Velocity Change Data         No           Deployment Event Counter         0           Orgorithm Active: Rear         4           Algorithm Active: Rear         Yes           Algorithm Active: Rear         Yes           Algorithm Active: Side         Yes           Algorithm Active: Side         Yes           Algorithm Active: Fontal         Yes           Innico Cycles Al Event         3988           Time Between Events (sec)         Data Not Available           Concurrent Event Sistals: Rollover         No           Event Severity Status: Rollover         No           Event Severity Status: Frontal Stage 1         No           Event Severity Status: Frontal Stage 2         No           Event Severity Status: Frontal Stage 1         No           Privert Status: Frontal Stage 1         No           Event Severity Status: Frontal Stage 1         No           Privert Status: Frontal Stage 1         No           Privert Status: Frontal Pretensioner         No           Priver Status: Frontal Pretensioner         No           Privert Status Deployment Loop Commanded	Event Recording Complete	Yes
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Event Severity Status:         Frontal Stage 1         No           Event Severity Status:         Frontal Pretensioner         No           Driver 1st Stage Deployment Loop Commanded         No           Passenger 1st Stage Deployment Loop Commanded         No           Driver 2nd Stage Deployment Loop #1 Commanded         No           Passenger 3nd Stage Deployment Loop #1 Commanded         No           Driver Pretensioner Deployment Loop #1 Commanded (If Equipped)         No           Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Passenger Thorax Loop Commanded (If Equipped)         No           Passenger Thorax Loop Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Driver Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No	Event Severity Status: Left Side	No
Event Severity Status:         Frontal Stage 1         No           Event Severity Status:         Frontal Pretensioner         No           Driver 1st Stage Deployment Loop Commanded         No           Passenger 1st Stage Deployment Loop Commanded         No           Driver 2nd Stage Deployment Loop Commanded         No           Passenger Pretensioner Deployment Loop #1 Commanded         No           Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Priver Row 2 Thorax Loop Commanded (If Equipped)         No           Priver Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped) <td>Event Severity Status: Frontal Stage 2</td> <td>No</td>	Event Severity Status: Frontal Stage 2	No
Evenity Status:         Frontal Pretensioner         No           Driver 1st Stage Deployment Loop Commanded         No           Passenger 1st Stage Deployment Loop Commanded         No           Driver 2nd Stage Deployment Loop Commanded         No           Passenger 2nd Stage Deployment Loop Commanded         No           Driver Pretensioner Deployment Loop #1 Commanded         No           Driver Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Driver Thorax Loop Commanded (If Equipped)         No           Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Passenger Thorax Loop Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pre	Event Severity Status: Frontal Stage 1	No
Driver 1st Stage Deployment Loop Commanded         No           Passenger 1st Stage Deployment Loop Commanded         No           Driver 2nd Stage Deployment Loop Commanded         No           Passenger 2nd Stage Deployment Loop 41 Commanded         No           Driver Pretensioner Deployment Loop #1 Commanded (If Equipped)         No           Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Driver Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Driver Thorax Loop Commanded (If Equipped)         No           Passenger Thorax Loop Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No<	Event Severity Status: Frontal Pretensioner	No
Passenger 1st Stage Deployment Loop Commanded       No         Driver 2nd Stage Deployment Loop Commanded       No         Driver Pretensioner Deployment Loop #1 Commanded       No         Driver Pretensioner Deployment Loop #1 Commanded (If Equipped)       No         Driver Pretensioner Deployment Loop #2 Commanded (If Equipped)       No         Driver Thorax Loop Commanded (If Equipped)       No         Driver Row 2 Thorax Loop Commanded (If Equipped)       No         Driver Row 2 Thorax Loop Commanded (If Equipped)       No         Driver Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Driver Row 2 Pretensio	Driver 1st Stage Deployment Loop Commanded	No
Driver 2nd Stage Deployment Loop Commanded         No           Passenger 2nd Stage Deployment Loop #1 Commanded         No           Driver Pretensioner Deployment Loop #1 Commanded         No           Driver Pretensioner Deployment Loop #1 Commanded (If Equipped)         No           Driver Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Driver Thorax Loop Commanded (If Equipped)         No           Passenger Thorax Loop Commanded (If Equipped)         No           Driver Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded	Passenger 1st Stage Deployment Loop Commanded	No
Passenger 2nd Stage Deployment Loop #1 Commanded         No           Driver Pretensioner Deployment Loop #1 Commanded         No           Driver Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Driver Thorax Loop Commanded (If Equipped)         No           Passenger Thorax Loop Commanded (If Equipped)         No           Driver Row 2 Thorax Loop Commanded (If Equipped)         No           Driver Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Driver Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Pressenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Protensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If E	Driver 2nd Stage Deployment Loop Commanded	No
Driver Pretensioner Deployment Loop #1 Commanded         No           Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Driver Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Driver Thorax Loop Commanded (If Equipped)         No           Driver Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretens	Passenger 2nd Stage Deployment Loop Commanded	No
Passenger Pretensioner Deployment Loop #1 Commanded (If Equipped)         No           Driver Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Driver Thorax Loop Commanded (If Equipped)         No           Driver Thorax Loop Commanded (If Equipped)         No           Passenger Thorax Loop Commanded (If Equipped)         No           Driver Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Knee Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Driver Row 2 Pretensioner Deployment Loop Commanded	Driver Pretensioner Deployment Loop #1 Commanded	No
Driver Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Driver Thorax Loop Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Driver Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Knee Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Roll Bar Loop Commanded (If Equipped)         No           Passenger Row 2 Head Re	Passenger Pretensioner Deployment Loop #1 Commanded	No
Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)         No           Driver Thorax Loop Commanded (If Equipped)         No           Passenger Thorax Loop Commanded (If Equipped)         No           Driver Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Driver Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Driver Row 2	Driver Pretensioner Deployment Loop #2 Commanded (If Equipped)	No
Driver Thorax Loop Commanded (If Equipped)         No           Passenger Thorax Loop Commanded (If Equipped)         No           Driver Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Driver Roll Bar Loop Commanded (If Equipped)         No           Driver Row 2 Head Rest Loop Commanded (I	Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)	No
Passenger Thorax Loop Commanded (If Equipped)         No           Driver Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Knee Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No <t< td=""><td>Driver Thorax Loop Commanded (If Equipped)</td><td>No</td></t<>	Driver Thorax Loop Commanded (If Equipped)	No
Driver Row 2 Thorax Loop Commanded (If Equipped)         No           Passenger Row 2 Thorax Loop Commanded (If Equipped)         No           Driver Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Knee Deployment Loop Commanded (If Equipped)         No           Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 1 Bar Loop Commanded (If Equipped)         No           Passenger Head Rest Loop Commanded (If Equipped)         No           Driver Row 3 Head Rest Loop Commanded (If Equipped)         No           Passenger Head Rest Loop Commanded (If Equipped)         No           Driver Row 2 Head Rest Loop Commanded (If	Passenger Thorax Loop Commanded (If Equipped)	No
Passenger Row 2 Thorax Loop Commanded (If Equipped)       No         Driver Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Passenger Row 2 Protensioner Deployment Loop Commanded (If Equipped)       No         Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Driver Roll Bar Loop Commanded (If Equipped)       No         Driver Roll Bar Loop Commanded (If Equipped)       No         Passenger Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No	Driver Row 2 Thorax Loop Commanded (If Equipped)	No
Driver Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)         No           Passenger Knee Deployment Loop Commanded (If Equipped)         No           Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)         No           Driver Roll Bar Loop Commanded (If Equipped)         No           Passenger Roll Bar Loop Commanded (If Equipped)         No           Passenger Row 2 Head Rest Loop Commanded (If Equipped)         No           Driver Head Rest Loop Commanded (If Equipped)         No           Passenger Row 2 Head Rest Loop Commanded (If Equipped)         No           Passenger Row 2 Head Rest Loop	Passenger Row 2 Thorax Loop Commanded (If Equipped)	No
Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Passenger Knee Deployment Loop Commanded (If Equipped)       No         Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Battery Cutoff Loop Commanded (If Equipped)       No         Passenger Roll Bar Loop Commanded (If Equipped)       No         Passenger Roll Bar Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 He	Driver Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Knee Deployment Loop Commanded (If Equipped)       No         Passenger Knee Deployment Loop Commanded (If Equipped)       No         Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Battery Cutoff Loop Commanded (If Equipped)       No         Passenger Roll Bar Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If E	Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Knee Deployment Loop Commanded (If Equipped)       No         Passenger Knee Deployment Loop Commanded (If Equipped)       No         Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Deter Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Battery Cutoff Loop Commanded (If Equipped)       No         Driver Roll Bar Loop Commanded (If Equipped)       No         Passenger Roll Bar Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Command	Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Knee Deployment Loop Commanded (If Equipped)       No         Passenger Knee Deployment Loop Commanded (If Equipped)       No         Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Driver Roll Bar Loop Commanded (If Equipped)       No         Driver Roll Bar Loop Commanded (If Equipped)       No         Driver Roll Bar Loop Commanded (If Equipped)       No         Steering Column Energy Absorbing Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped) <t< td=""><td>Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)</td><td>No</td></t<>	Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)       No         Driver Knee Deployment Loop Commanded (If Equipped)       No         Passenger Knee Deployment Loop Commanded (If Equipped)       No         Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Battery Cutoff Loop Commanded (If Equipped)       No         Driver Roll Bar Loop Commanded (If Equipped)       No         Passenger Roll Bar Loop Commanded (If Equipped)       No         Steering Column Energy Absorbing Loop Commanded (If Equipped)       No         Driver Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Belt Switch Circuit Status       Buckled         Passenger Belt Switch Circuit Status       Buckled	Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Driver Knee Deployment Loop Commanded (If Equipped)       No         Passenger Knee Deployment Loop Commanded (If Equipped)       No         Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Driver Roll Sar Loop Commanded (If Equipped)       No         Driver Roll Bar Loop Commanded (If Equipped)       No         Passenger Roll Bar Loop Commanded (If Equipped)       No         Passenger Roll Bar Loop Commanded (If Equipped)       No         Driver Roll Bar Loop Commanded (If Equipped)       No         Passenger Roll Bar Loop Commanded (If Equipped)       No         Driver Read Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Bow 2 Head Rest Loop Commanded (If Equipped)       No         Driver Bow 2 Head Rest Loop Commanded (If Equipped)       No         Driver Belt Switch Circuit Status       Buckled         Driver Belt Switch Circuit Status       Buckled         Driver Belt Switch Circuit Status (If Equipped)	Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Passenger Knee Deployment Loop Commanded (If Equipped)       No         Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Battery Cutoff Loop Commanded (If Equipped)       No         Driver Roll Bar Loop Commanded (If Equipped)       No         Driver Roll Bar Loop Commanded (If Equipped)       No         Steering Column Energy Absorbing Loop Commanded (If Equipped)       No         Driver Head Rest Loop Commanded (If Equipped)       No         Passenger Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Belt Switch Circuit Status       Buckled         Passenger Belt Switch Circuit Status       Buckled         Driver Seat Position Status (If Equipped)       Rearward         Passenger Seat Position Status (If Equipped)       Data Not Available         Passenger Seat Occ	Driver Knee Deployment Loop Commanded (If Equipped)	No
Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Battery Cutoff Loop Commanded (If Equipped)       No         Driver Roll Bar Loop Commanded (If Equipped)       No         Passenger Roll Bar Loop Commanded (If Equipped)       No         Passenger Roll Bar Loop Commanded (If Equipped)       No         Steering Column Energy Absorbing Loop Commanded (If Equipped)       No         Driver Head Rest Loop Commanded (If Equipped)       No         Passenger Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Belt Switch Circuit Status       Buckled         Passenger Belt Switch Circuit Status       Buckled         Driver Seat Position Status (If Equipped)       Rearward         Passenger Seat Occupancy Status       Occupied         Passenger Classification Status       Smal	Passenger Knee Deployment Loop Commanded (If Equipped)	No
Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)       No         Battery Cutoff Loop Commanded (If Equipped)       No         Driver Roll Bar Loop Commanded (If Equipped)       No         Passenger Roll Bar Loop Commanded (If Equipped)       No         Passenger Roll Bar Loop Commanded (If Equipped)       No         Passenger Roll Bar Loop Commanded (If Equipped)       No         Driver Roll Bar Loop Commanded (If Equipped)       No         Driver Head Rest Loop Commanded (If Equipped)       No         Passenger Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Bow 2 Head Rest Loop Commanded (If Equipped)       No         Driver Belt Switch Circuit Status       Buckled         Passenger Belt Switch Circuit Status       Buckled         Driver Seat Position Status (If Equipped)       Rearward         Passenger Seat Occupancy Status       Occupied         Passenger Classification Status       Smill Adult	Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No
Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)NoBattery Cutoff Loop Commanded (If Equipped)NoDriver Roll Bar Loop Commanded (If Equipped)NoPassenger Roll Bar Loop Commanded (If Equipped)NoSteering Column Energy Absorbing Loop Commanded (If Equipped)NoDriver Head Rest Loop Commanded (If Equipped)NoDriver Head Rest Loop Commanded (If Equipped)NoPassenger Head Rest Loop Commanded (If Equipped)NoDriver Row 2 Head Rest Loop Commanded (If Equipped)NoDriver Row 2 Head Rest Loop Commanded (If Equipped)NoPassenger Row 2 Head Rest Loop Commanded (If Equipped)NoCenter Row 2 Head Rest Loop Commanded (If Equipped)NoDriver Belt Switch Circuit StatusBuckledPassenger Belt Switch Circuit StatusBuckledDriver Seat Position Status (If Equipped)Data Not AvailablePassenger Seat Position Status (If Equipped)Data Not AvailablePassenger Seat Occupancy StatusOccupiedPassenger Seat Occupancy StatusSmall AdultPassenger Sife Supression StatusSmall AdultPassenger Seat Position StatusSmall Adult	Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No
Battery Cutoff Loop Commanded (If Equipped)       No         Driver Roll Bar Loop Commanded (If Equipped)       No         Passenger Roll Bar Loop Commanded (If Equipped)       No         Steering Column Energy Absorbing Loop Commanded (If Equipped)       No         Driver Head Rest Loop Commanded (If Equipped)       No         Passenger Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Belt Switch Circuit Status       Buckled         Passenger Belt Switch Circuit Status       Buckled         Driver Seat Position Status (If Equipped)       Data Not Available         Passenger Seat Occupancy Status       Occupied         Passenger Seat Position Status       Small Adult         Passenger Sile Suppersion Status       Small Adult	Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No
Driver Roll Bar Loop Commanded (If Equipped)       No         Passenger Roll Bar Loop Commanded (If Equipped)       No         Steering Column Energy Absorbing Loop Commanded (If Equipped)       No         Driver Head Rest Loop Commanded (If Equipped)       No         Passenger Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         Driver Belt Switch Circuit Status       Buckled         Passenger Belt Switch Circuit Status       Buckled         Driver Seat Position Status (If Equipped)       Rearward         Passenger Seat Position Status (If Equipped)       Data Not Available         Passenger Classification Status       Small Adult         Passenger Classification Status       Small Adult	Battery Cutoff Loop Commanded (If Equipped)	No
Passenger Roll Bar Loop Commanded (If Equipped)       No         Steering Column Energy Absorbing Loop Commanded (If Equipped)       No         Driver Head Rest Loop Commanded (If Equipped)       No         Passenger Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         High Voltage Battery Cutoff loop commanded (If Equipped)       No         Driver Belt Switch Circuit Status       Buckled         Passenger Belt Switch Circuit Status       Buckled         Driver Seat Position Status (If Equipped)       Data Not Available         Passenger Seat Occupancy Status       Occupied         Passenger Classification Status       Small Adult         Passenger Site Suppression Status       Small Adult	Driver Roll Bar Loop Commanded (If Equipped)	No
Steering Column Energy Absorbing Loop Commanded (If Equipped)       No         Driver Head Rest Loop Commanded (If Equipped)       No         Passenger Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         High Voltage Battery Cutoff loop commanded (If Equipped)       No         Driver Belt Switch Circuit Status       Buckled         Passenger Belt Switch Circuit Status       Buckled         Driver Seat Position Status (If Equipped)       Data Not Available         Passenger Seat Occupancy Status       Occupied         Passenger Classification Status       Small Adult         Passenger Site Suppression Switch Circuit Status (If Equipped)       Data Not Available	Passenger Roll Bar Loop Commanded (If Equipped)	No
Driver Head Rest Loop Commanded (If Equipped)       No         Passenger Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         High Voltage Battery Cutoff loop commanded (If Equipped)       No         Driver Belt Switch Circuit Status       Buckled         Passenger Belt Switch Circuit Status       Buckled         Driver Seat Position Status (If Equipped)       Rearward         Passenger Seat Occupancy Status       Occupied         Passenger Classification Status       Small Adult         Passenger Site Suppression Switch Circuit Status       Small Adult	Steering Column Energy Absorbing Loop Commanded (If Equipped)	No
Passenger Head Rest Loop Commanded (If Equipped)       No         Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         High Voltage Battery Cutoff loop commanded (If Equipped)       No         Driver Belt Switch Circuit Status       Buckled         Passenger Belt Switch Circuit Status       Buckled         Driver Seat Position Status (If Equipped)       Rearward         Passenger Seat Position Status (If Equipped)       Data Not Available         Passenger Classification Status       Goccupied         Passenger Site Suppression Status       Small Adult	Driver Head Rest Loop Commanded (If Equipped)	No
Driver Row 2 Head Rest Loop Commanded (If Equipped)       No         Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         High Voltage Battery Cutoff loop commanded (If Equipped)       No         Driver Belt Switch Circuit Status       Buckled         Passenger Belt Switch Circuit Status       Buckled         Driver Seat Position Status (If Equipped)       Rearward         Passenger Seat Position Status (If Equipped)       Data Not Available         Passenger Classification Status       Gocupied         Passenger Slassification Status       Small Adult	Passenger Head Rest Loop Commanded (If Equipped)	No
Passenger Row 2 Head Rest Loop Commanded (If Equipped)       No         Center Row 2 Head Rest Loop Commanded (If Equipped)       No         High Voltage Battery Cutoff loop commanded (If Equipped)       No         Driver Belt Switch Circuit Status       Buckled         Passenger Belt Switch Circuit Status       Buckled         Driver Seat Position Status (If Equipped)       Rearward         Passenger Seat Position Status (If Equipped)       Data Not Available         Passenger Seat Occupancy Status       Occupied         Passenger Classification Status       Small Adult         Passenger SIP Suppression Switch Circuit Status       Small Adult	Driver Row 2 Head Rest Loop Commanded (If Equipped)	No
Center Row 2 Head Rest Loop Commanded (If Equipped)       No         High Voltage Battery Cutoff loop commanded (If Equipped)       No         Driver Belt Switch Circuit Status       Buckled         Passenger Belt Switch Circuit Status       Buckled         Driver Seat Position Status (If Equipped)       Rearward         Passenger Seat Position Status (If Equipped)       Data Not Available         Passenger Seat Occupancy Status       Occupied         Passenger Classification Status       Small Adult         Passenger SIP Suppression Switch Circuit Status (If Equipped)       Data Not Available	Passenger Row 2 Head Rest Loop Commanded (If Equipped)	No
High Voltage Battery Cutoff loop commanded (If Equipped)       No         Driver Belt Switch Circuit Status       Buckled         Passenger Belt Switch Circuit Status       Buckled         Driver Seat Position Status (If Equipped)       Rearward         Passenger Seat Position Status (If Equipped)       Data Not Available         Passenger Seat Occupancy Status       Occupied         Passenger Classification Status       Small Adult         Passenger SIR Suppression Switch Circuit Status (If Equipped)       Data Not Available	Center Row 2 Head Rest Loop Commanded (If Equipped)	No
Driver Belt Switch Circuit Status     Buckled       Passenger Belt Switch Circuit Status     Buckled       Driver Seat Position Status (If Equipped)     Rearward       Passenger Seat Position Status (If Equipped)     Data Not Available       Passenger Seat Occupancy Status     Occupied       Passenger Slassification Status     Small Adult       Passenger Slassification Status     Driver Status	High Voltage Battery Cutoff loop commanded (If Equipped)	No
Passenger Belt Switch Circuit Status     Buckled       Driver Seat Position Status (If Equipped)     Rearward       Passenger Seat Position Status (If Equipped)     Data Not Available       Passenger Seat Occupancy Status     Occupied       Passenger Slassification Status     Small Adult       Passenger Slassification Status     Diversition Status	Driver Belt Switch Circuit Status	Buckled
Driver Seat Position Status (If Equipped)     Rearward       Passenger Seat Position Status (If Equipped)     Data Not Available       Passenger Seat Occupancy Status     Occupied       Passenger Classification Status     Small Adult       Passenger SIR Suppression Switch Circuit Status (If Equipped)     Data Not Available	Passenger Belt Switch Circuit Status	Buckled
Passenger Seat Position Status (If Equipped)     Data Not Available       Passenger Seat Occupancy Status     Occupied       Passenger Classification Status     Small Adult       Passenger SIR Suppression Switch Circuit Status (If Equipped)     Data Not Available	Driver Seat Position Status (If Equipped)	Rearward
Passenger Seat Occupancy Status Passenger Classification Status Passenger SIR Suppression Switch Circuit Status (If Equipped) Data Not Not Available Data Not Not Available	Passenger Seat Position Status (If Equipped)	Data Not Available
Passenger Classification Status Passenger SIR Suppression Switch Circuit Status (If Equipped) Data Not Available	Passenger Seat Occupancy Status	Occupied
Dassenger SIR Suppression Switch Circuit Status (If Equipped)	Passenger Classification Status	Small Adult
T assenger on Suppression Switch Ordan Status (II Equipped) Data Not Available I	Passenger SIR Suppression Switch Circuit Status (If Equipped)	Data Not Available





Passenger Air Bag OFF Indicator StatusOffLow Tire Pressure Warning LampData Not AvailableSIR Warning Lamp StatusOffSIR Warning Lamp ON/OFF Time Continuously (seconds)655330Number of Ignition Cycles SIR Warning Lamp was ON/OFF Continuously3982Ignition Cycles Since DTCs Were Last Cleared at Event Enable253Diagnostic Trouble Codes at Event:N/AFault typeN/ADiagnostic Trouble Codes at Event:N/ADiagnostic Trouble Codes at Event:N/ADiagnostic Trouble Codes at Event:N/ADiagnostic Trouble Codes at Event:N/ADiagnostic Trouble Codes at Event:N/A <tr< th=""></tr<>
Low Tire Pressure Warning LampData Not AvailableSIR Warning Lamp StatusOffSIR Warning Lamp ON/OFF Time Continuously (seconds)655330Number of Ignition Cycles SIR Warning Lamp was ON/OFF Continuously3982Ignition Cycles Since DTCs Were Last Cleared at Event Enable253Diagnostic Trouble Codes at Event:N/AFault typeN/ADiagnostic Trouble Codes at Event:N/ADiagnostic Trouble Codes at Event:N/ADiagnostic Trouble Codes at Event:N/ADiagnostic Trouble Codes at Event:N/ADiagnostic Trouble Code
SIR Warning Lamp Status       Off         SIR Warning Lamp ON/OFF Time Continuously (seconds)       655330         Number of Ignition Cycles SIR Warning Lamp was ON/OFF Continuously       3982         Ignition Cycles Since DTCs Were Last Cleared at Event Enable       253         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A <t< td=""></t<>
SIR Warning Lamp ON/OFF Time Continuously (seconds)       655330         Number of Ignition Cycles SIR Warning Lamp was ON/OFF Continuously       3982         Ignition Cycles Since DTCs Were Last Cleared at Event Enable       253         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Pault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Diagnostic Trouble Codes at Event:       N/A         Diagnostic Trouble Codes at Event:       N/A         Pault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Pault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Pault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Pault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Pault type       N/A
Number of Ignition Cycles SIR Warning Lamp was ON/OFF Continuously       3982         Ignition Cycles Since DTCs Were Last Cleared at Event Enable       253         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Pault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Diagnostic Trouble Codes at Event:       N/A         Diagnostic Trouble Codes at Event:       N/A
Ignition Cycles Since DTCs Were Last Cleared at Event Enable253Diagnostic Trouble Codes at Event:N/AFault typeN/ADiagnostic Trouble Codes at Event:N/AFault typeN/AFault typeN/ADiagnostic Trouble Codes at Event:N/AFault typeN/ADiagnostic Trouble Codes at Event:N/AFault typeN/ADiagnostic Trouble Codes at Event:N/AFault typeN/AFault typeN/A
Diagnostic Trouble Codes at Event:N/AFault typeN/ADiagnostic Trouble Codes at Event:N/AFault typeN/AFault typeN/ADiagnostic Trouble Codes at Event:N/AFault typeN/ADiagnostic Trouble Codes at Event:N/AFault typeN/ADiagnostic Trouble Codes at Event:N/AFault typeN/AFault typeN/A
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Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A         Diagnostic Trouble Codes at Event:       N/A         Fault type       N/A
Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Fault type     N/A
Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Fault type     N/A       Fault type     N/A
Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Fault type     N/A
Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Fault type     N/A       Fault type     N/A
Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Fault type     N/A
Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A       Fault type     N/A
Fault type     N/A       Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A
Diagnostic Trouble Codes at Event:     N/A       Fault type     N/A
Fault type N/A
Discussed a Taxable Order at Example NI/A
Diagnostic Trouble Codes at Event: N/A
Fault type N/A
Diagnostic Trouble Codes at Event: N/A
Fault type N/A
Diagnostic Trouble Codes at Event: N/A
Fault type N/A
Time From Algorithm Enable to Maximum SDM Recorded Vehicle Velocity Change
(msec)
-5 [-8]
Lateral SDM Recorded Vehicle Vehicle Vehicle Vehicle at time of Maximum SDM Recorded
Vehicle Velocity Change MPH [km/h] -4 [-6]
Driver 1st Stage Time From Algorithm Enable to Deployment Command Criteria Met
(msec) Data Not Available
Driver 2nd Stage Time From Algorithm Enable to Deployment Command Criteria Met
(msec) Data Not Available
Passenger 1st Stage Time From Algorithm Enable to Deployment Command Criteria
Met (msec) Data Not Available
Passenger 2nd Stage Time From Algorithm Enable to Deployment Command Criteria
Met (msec) Data Not Available
Driver Thorax/Curtain Time From Algorithm Enable to Deployment Command Criteria
Met (msec) Data Not Available
Passenger Thorax/Curtain Time From Algorithm Enable to Deployment Command Data Not Available
Criteria Met (msec)
Driver Pretensioner Time From Algorithm Enable to Deployment Loop #1 or Loop #2 Data Not Available
Command Criteria Met (msec)
#2 Command Criteria Met (msec)
Rollover Sensor - time from Event Enable to time of angle threshold (msec) Data Not Available





### Pre-Crash Data -1 to -.5 sec (Event Record 1)

Times (sec)	Cruise Control Active	Cruise Control Resume Switch Active	Cruise Control Set Switch Active	Engine Torque (lb-ft [N-m])	Reduced Engine Power Mode Indicator
-1.0	Data Not Available	Data Not Available	Data Not Available	-4 [-6]	Off
-0.5	Data Not Available	Data Not Available	Data Not Available	1 [ 1]	Off

### Pre-Crash Data -2.5 to -.5 sec (Event Record 1)

Times (sec)	Accelerator Pedal Position (percent)	Brake Switch Circuit State	Engine Speed	Throttle Position (%)	Vehicle Speed (MPH [km/h])
-2.5	0	Off	1472	13	68 [109]
-2.0	0	Off	1472	11	67 [ 108]
-1.5	0	On	1472	9	68 [109]
-1.0	0	On	1408	7	65 [ 105]
-0.5	0	On	1344	6	61 [ 98]







Time (msec)	Delta-V, Iongitudinal (MPH)	Delta-V, Iongitudinal (km/h)
10	0.0	0.0
20	-0.6	-1.0
30	-0.6	-1.0
40	-1.2	-2.0
50	-1.9	-3.0
60	-3.1	-5.0
70	-3.7	-6.0
80	-4.3	-7.0
90	-4.3	-7.0
100	-5.0	-8.0
110	-5.0	-8.0
120	-5.0	-8.0
130	-5.0	-8.0
140	-5.0	-8.0
150	-5.0	-8.0
160	-5.0	-8.0
170	-5.0	-8.0
180	-5.0	-8.0
190	-5.0	-8.0
200	-5.0	-8.0
210	-5.0	-8.0

Time (msec)	Delta-V, Iongitudinal (MPH)	Delta-V, Iongitudinal (km/h)
220	-5.0	-8.0
230	-5.0	-8.0
240	-5.0	-8.0
250	-5.0	-8.0
260	-5.0	-8.0
270	-5.0	-8.0
280	-5.0	-8.0
290	-5.0	-8.0
300	-5.0	-8.0







Time (msec)	Delta-V, lateral (MPH)	Delta-V, lateral (km/h)
10	0.0	0.0
20	-0.6	-1.0
30	-1.2	-2.0
40	-2.5	-4.0
50	-3.1	-5.0
60	-3.7	-6.0
70	-3.7	-6.0
80	-3.7	-6.0
90	-3.7	-6.0
100	-3.7	-6.0
110	-3.7	-6.0
120	-3.7	-6.0
130	-3.7	-6.0
140	-3.7	-6.0
150	-3.7	-6.0
160	-3.7	-6.0
170	-3.7	-6.0
180	-3.7	-6.0
190	-4.3	-7.0
200	-4.3	-7.0
210	-4.3	-7.0

Time (msec)	Delta-V, lateral (MPH)	Delta-V, lateral (km/h)
220	-4.3	-7.0
230	-4.3	-7.0
240	-4.3	-7.0
250	-4.3	-7.0
260	-4.3	-7.0
270	-4.3	-7.0
280	-4.3	-7.0
290	-4.3	-7.0
300	-4.3	-7.0





SDM Recorded Vehicle Lateral Acceleration (Event Record 1)





SDM Recorded Vehicle Roll Rate (Event Record 1)







Time	G
2	-0.7
4	-0.7
6	-0.7
8	-0.7
10	-1.5
12	-1.5
14	-2.2
16	-2.2
18	-2.2
20	-1.5
22	-1.5
24	-1.5
26	-2.2
28	-2.2
30	-1.5
32	-2.2
34	-2.2
36	-1.5
38	-2.2
40	-2.2
42	-0.7
44	-5.1
46	-3.6
48	-5.1
50	-3.6

Time	G
52	-2.9
54	-3.6
56	-3.6
58	-3.6
60	-4.4
62	-3.6
64	-2.9
66	-2.9
68	-2.9
70	-2.9
72	-2.9
74	-2.9
76	-2.2
78	-2.2
80	-2.2
82	-2.2
84	-1.5
86	-1.5
88	-1.5
90	-0.7
92	-0.7
94	0.0
96	0.0
98	0.0
100	0.0







Millisecond
-------------

Time	G	Time
2	-1.5	52
4	-2.2	54
6	-2.2	56
8	-2.2	58
10	-2.9	60
12	-2.9	62
14	-2.2	64
16	-3.6	66
18	-2.9	68
20	-2.2	70
22	-3.6	72
24	-3.6	74
26	-2.9	76
28	-2.9	78
30	-3.6	80
32	-2.9	82
34	-2.9	84
36	-2.9	86
38	-4.4	88
40	-4.4	90
42	-2.9	92
44	-3.6	94
46	-5.1	96
48	-2.9	98
50	-3.6	100

Time	G
52	-2.9
54	-2.9
56	-2.9
58	-2.2
60	-1.5
62	-1.5
64	-0.7
66	-0.7
68	0.0
70	0.0
72	0.0
74	0.0
76	0.0
78	0.0
80	0.0
82	0.0
84	0.0
86	0.0
88	0.0
90	0.0
92	0.0
94	0.0
96	0.0
98	0.0
100	0.0





# Event Data (Event Record 2)

Event Recording Complete	Yes
Event Record Type	Deployment
Crash Record Locked	Yes
Data Recording Complete - Deployment Status Data	Yes
Data Recording Complete - SDM Recorded Vehicle Velocity Change Data	No
Deployment Event Counter	1
Event Counter	2
OnStar Notification Event Counter	1
Algorithm Active: Rear	Yes
Algorithm Active: Bollover	Yes
Algorithm Active: Side	Yes
Algorithm Active: Frontal	Yes
Ignition Cycles At Event	3988
Time Between Events (sec)	87
Concurrent Event Flag Set	No
Event Severity Status: Bollover	Ves
Event Severity Status: Rollover	No
Event Severity Status: Neal	No
Event Severity Status. Right Side	No
Event Severity Status. Lett Side	INU
Event Seventy Status: Frontal Stage 2	INO
Event Severity Status: Frontal Stage 1	<u>NO</u>
Event Severity Status: Frontal Pretensioner	NO
Driver 1st Stage Deployment Loop Commanded	NO
Passenger 1st Stage Deployment Loop Commanded	No
Driver 2nd Stage Deployment Loop Commanded	No
Passenger 2nd Stage Deployment Loop Commanded	No
Driver Pretensioner Deployment Loop #1 Commanded	Yes
Passenger Pretensioner Deployment Loop #1 Commanded	Yes
Driver Pretensioner Deployment Loop #2 Commanded (If Equipped)	No
Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)	No
Driver Thorax Loop Commanded (If Equipped)	No
Passenger Thorax Loop Commanded (If Equipped)	No
Driver Row 2 Thorax Loop Commanded (If Equipped)	No
Passenger Row 2 Thorax Loop Commanded (If Equipped)	No
Driver Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)	Yes
Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)	Yes
Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Driver Knee Deployment Loop Commanded (If Equipped)	No
Passenger Knee Deployment Loop Commanded (If Equipped)	No
Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No
Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No
Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No
Battery Cutoff Loop Commanded (If Equipped)	No
Driver Roll Bar Loop Commanded (If Equipped)	No
Passenger Boll Bar Loop Commanded (In Equipped)	No
Storing Column Energy Absorbing Loop Commanded (If Equipped)	No
Driver Head Post Loop Commanded (If Equipped)	No
Dragenger Head Read Deat Lean Commanded (If Equipped)	No
Passenger Read Rest Loop Commanded (If Equipped)	
Diver Now 2 Head Kest Loop Commanded (In Equipped)	No
Passenger Row 2 Head Rest Loop Commanded (II Equipped)	INO
Usiner Now Z Head Kest Loop Commanded (II Equipped)	NO
High voltage Battery Cutoff loop commanded (If Equipped)	NO
	Buckled
Passenger Belt Switch Circuit Status	Buckled
Driver Seat Position Status (If Equipped)	Rearward
Passenger Seat Position Status (If Equipped)	Data Not Available
Passenger Seat Occupancy Status	Occupied
Passenger Classification Status	Small Adult
Passenger SIR Suppression Switch Circuit Status (If Equipped)	Data Not Available





Passenger Air Bag ON Indicator Status	On
Passenger Air Bag OFF Indicator Status	Off
Low Tire Pressure Warning Lamp	Data Not Available
SIR Warning Lamp Status	Off
SIR Warning Lamp ON/OFF Time Continuously (seconds)	655330
Number of Ignition Cycles SIR Warning Lamp was ON/OFF Continuously	3982
Ignition Cycles Since DTCs Were Last Cleared at Event Enable	253
Diagnostic Trouble Codes at Event:	B0052
Fault type	\$00
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Time From Algorithm Enable to Maximum SDM Recorded Vehicle Velocity Change	Data Not Available
(IIISEC)	
Recorded Vehicle Velocity Change MPH [km/h]	Data Not Available
Lateral SDM Recorded Vehicle Velocity Change at time of Maximum SDM Recorded	
Vehicle Velocity Change MPH [km/h]	Data Not Available
Driver 1st Stage Time From Algorithm Enable to Deployment Command Criteria Met	Data Nat Available
(msec)	Data Not Available
Driver 2nd Stage Time From Algorithm Enable to Deployment Command Criteria Met	Data Not Available
(msec)	Bata Not / Wallable
Passenger 1st Stage Time From Algorithm Enable to Deployment Command Criteria	Data Not Available
Met (msec)	Bata Not / Wallable
Passenger 2nd Stage Time From Algorithm Enable to Deployment Command Criteria	Data Not Available
Met (msec)	Bata Hot / trailable
Driver Thorax/Curtain Time From Algorithm Enable to Deployment Command Criteria	405
Met (msec)	100
Passenger Thorax/Curtain Time From Algorithm Enable to Deployment Command	405
Criteria Met (msec)	
Command Criteria Met (mass)	405
Descender Protopsioner Time From Algerithm Enable to Deployment Leon #1 or Leon	
#2 Command Criteria Met (msec)	405
Rollover Sensor - time from Event Enable to time of angle threshold (msec)	540





### Pre-Crash Data -1 to -.5 sec (Event Record 2)

Times (sec)	Cruise Control Active	Cruise Control Resume Switch Active	Cruise Control Set Switch Active	Engine Torque (lb-ft [N-m])	Reduced Engine Power Mode Indicator
-1.0	Data Not Available	Data Not Available	Data Not Available	15 [ 21]	Off
-0.5	Data Not Available	Data Not Available	Data Not Available	20 [ 28]	Off

### Pre-Crash Data -2.5 to -.5 sec (Event Record 2)

Times (sec)	Accelerator Pedal Position (percent)	Brake Switch Circuit State	Engine Speed	Throttle Position (%)	Vehicle Speed (MPH [km/h])
-2.5	0	On	1472	9	68 [ 109]
-2.0	0	On	1408	7	65 [ 105]
-1.5	0	On	1280	6	60 [ 97]
-1.0	0	Off	1152	12	50 [81]
-0.5	0	Off	1088	10	47 [76]





SDM Recorded Vehicle Longitudinal Velocity (Event Record 2)





SDM Recorded Vehicle Lateral Velocity Change (Event Record 2)







Time	g
-490	-0.6
-480	-0.5
-470	-0.5
-460	-0.6
-450	-0.6
-440	-0.6
-430	-0.6
-420	-0.6
-410	-0.6
-400	-0.6
-390	-0.6
-380	-0.6
-370	-0.5
-360	-0.5
-350	-0.5
-340	-0.6
-330	-0.6
-320	-0.6
-310	-0.6
-300	-0.5
-290	-0.5
-280	-0.6
-270	-0.7
-260	-0.7
-250	-0.6

Time	g
-240	-0.5
-230	-0.5
-220	-0.6
-210	-0.7
-200	-0.7
-190	-0.7
-180	-0.8
-170	-0.9
-160	-1.0
-150	-1.0
-140	-1.0
-130	-1.0
-120	-1.0
-110	-1.1
-100	-1.0
-90	-1.0
-80	-0.9
-70	-0.8
-60	-0.9
-50	-0.9
-40	-0.8
-30	-0.8
-20	-0.9
-10	-0.9
0	-0.9

Time	g
10	-0.9
20	-1.0
30	-0.9
40	-0.9
50	-0.9
60	-0.8
70	-0.8
80	-0.8
90	-0.8
100	-0.8
110	-0.7
120	-0.7
130	-0.7
140	-0.6
150	-0.5
160	-0.4
170	-0.2
180	-0.1
190	0.0
200	0.0
210	0.0
220	0.2
230	0.2
240	0.2
250	0.2





SDM Recorded Vehicle Vertical Acceleration (Event Record 2)







#### Milliseconds

Time	deg/sec	Time	deg/sec	Time	deg/sec	
-490	12	-240	34	10	118	
-480	10	-230	32	20	118	
-470	8	-220	34	30	128	
-460	10	-210	38	40	130	
-450	10	-200	40	50	134	
-440	10	-190	44	60	144	
-430	14	-180	44	70	146	
-420	14	-170	50	80	152	
-410	14	-160	52	90	160	
-400	14	-150	56	100	162	
-390	16	-140	62	110	170	
-380	18	-130	62	120	174	
-370	18	-120	66	130	178	
-360	18	-110	70	140	188	
-350	18	-100	70	150	192	
-340	20	-90	74	160	196	
-330	20	-80	80	170	200	
-320	24	-70	84	180	202	
-310	22	-60	84	190	206	
-300	26	-50	90	200	206	
-290	26	-40	96	210	212	
-280	26	-30	100	220	214	
-270	30	-20	104	230	212	
-260	34	-10	108	240	208	
-250	36	0	114	250	204	





SDM Recorded Vehicle Longitudinal Acceleration After FSR Enable (Event Record 2)





SDM Recorded Vehicle Lateral Acceleration After FSR Enable (Event Record 2)





# **Event Data (Event Record 3)**

Event Recording Complete	Yes
Event Record Type	Deployment
Crash Record Locked	Yes
Data Recording Complete - Deployment Status Data	Yes
Data Recording Complete - SDM Recorded Vehicle Velocity Change Data	Yes
Deployment Event Counter	2
Event Counter	3
OnStar Notification Event Counter	1
Algorithm Active: Rear	Yes
Algorithm Active: Bollover	Yes
Algorithm Active: Side	Yes
Algorithm Active: Frontal	Yes
Japitan Cycles At Event	3988
Time Between Events (sec)	77
Concurrent Event Flag Set	No
Event Severity Status: Bollover	No
Event Severity Status: Rear	No
Event Severity Status: Real	Voo
Event Severity Status: Left Side	Tes No.
Event Severity Status. Left Store 2	No
Event Severity Status. Frontal Stage 2	INU
Event Seventy Status: Frontal Stage 1	<u>Yes</u>
Event Severity Status: Frontal Pretensioner	NO NO
Driver 1st Stage Deployment Loop Commanded	Yes
Passenger 1st Stage Deployment Loop Commanded	Yes
Driver 2nd Stage Deployment Loop Commanded	Yes
Passenger 2nd Stage Deployment Loop Commanded	Yes
Driver Pretensioner Deployment Loop #1 Commanded	No
Passenger Pretensioner Deployment Loop #1 Commanded	No
Driver Pretensioner Deployment Loop #2 Commanded (If Equipped)	No
Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)	No
Driver Thorax Loop Commanded (If Equipped)	No
Passenger Thorax Loop Commanded (If Equipped)	Yes
Driver Row 2 Thorax Loop Commanded (If Equipped)	No
Passenger Row 2 Thorax Loop Commanded (If Equipped)	No
Driver Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No
Driver Knee Deployment Loop Commanded (If Equipped)	No
Passenger Knee Deployment Loop Commanded (If Equipped)	No
Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No
Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No
Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No
Battery Cutoff Loop Commanded (If Equipped)	No
Driver Roll Bar Loop Commanded (If Equipped)	No
Passanger Boll Bar Loop Commanded (It Equipped)	No
Storing Column Energy Absorbing Loop Commanded (If Equipped)	No
Driver Head Post Loop Commanded (If Equipped)	No
Diver Head Kest Loop Commanded (If Equipped)	No
Prassenger Read Rest Loop Commanded (If Equipped)	
Driver Row 2 Head Rest Loop Commanded (If Equipped)	INU
Passenger Row 2 Head Rest Loop Commanded (II Equipped)	INO
Center Row 2 Head Rest Loop Commanded (If Equipped)	NO
High voltage Battery Cutoff loop commanded (If Equipped)	NO
	Buckled
Passenger Belt Switch Circuit Status	Buckled
Driver Seat Position Status (If Equipped)	Rearward
Passenger Seat Position Status (If Equipped)	Data Not Available
Passenger Seat Occupancy Status	Occupied
Passenger Classification Status	Small Adult
Passenger SIR Suppression Switch Circuit Status (If Equipped)	Data Not Available





Passenger Air Bag ON Indicator Status	On
Passenger Air Bag OFF Indicator Status	Off
Low Tire Pressure Warning Lamp	Data Not Available
SIR Warning Lamp Status	On
SIR Warning Lamp ON/OFF Time Continuously (seconds)	0
Number of Ignition Cycles SIR Warning Lamp was ON/OFF Continuously	0
Ignition Cycles Since DTCs Were Last Cleared at Event Enable	253
Diagnostic Trouble Codes at Event:	B0052
Fault type	\$00
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Time From Algorithm Enable to Maximum SDM Recorded Vehicle Velocity Change (msec)	400
I ongitudinal SDM Recorded Vehicle Velocity Change at time of Maximum SDM	
Recorded Vehicle Velocity Change MPH [km/h]	-8 [-13]
Lateral SDM Recorded Vehicle Velocity Change at time of Maximum SDM Recorded	4.1.01
Vehicle Velocity Change MPH [km/h]	4 [6]
Driver 1st Stage Time From Algorithm Enable to Deployment Command Criteria Met	02
(msec)	93
Driver 2nd Stage Time From Algorithm Enable to Deployment Command Criteria Met	213
Passenger 1st Stage Time From Algorithm Enable to Deployment Command Criteria	93
Met (msec)	
Passenger 2nd Stage Time From Algorithm Enable to Deployment Command Criteria	213
Niel (11566) Driver Therey/Curtain Time From Algerithm Frable to Deployment Command Criteria	
Met (msec)	Data Not Available
Passenger Thorax/Curtain Time From Algorithm Enable to Deployment Command	
Criteria Met (msec)	306
Driver Pretensioner Time From Algorithm Enable to Deployment Loop #1 or Loop #2	Data Not Available
Command Criteria Met (msec)	
Passenger Pretensioner Time From Algorithm Enable to Deployment Loop #1 or Loop #2 Command Criteria Met (msec)	Data Not Available
Rollover Sensor - time from Event Enable to time of angle threshold (msec)	Data Not Available





### Pre-Crash Data -1 to -.5 sec (Event Record 3)

Times (sec)	Cruise Control Active	Cruise Control Resume Switch Active	Cruise Control Set Switch Active	Engine Torque (lb-ft [N-m])	Reduced Engine Power Mode Indicator
-1.0	Data Not Available	Data Not Available	Data Not Available	7 [ 10]	Off
-0.5	Data Not Available	Data Not Available	Data Not Available	14 [ 18]	Off

### Pre-Crash Data -2.5 to -.5 sec (Event Record 3)

Times (sec)	Accelerator Pedal Position (percent)	Brake Switch Circuit State	Brake Switch Circuit State		Vehicle Speed (MPH [km/h])	
-2.5	0	On	1280	6	60 [ 97]	
-2.0	0	On	1152	12	50 [81]	
-1.5	0	Off	960	9	45 [72]	
-1.0	0	Off	896	9	42 [67]	
-0.5	0	Off	896	8	42 [ 67]	







Time (msec)	Delta-V, Iongitudinal (MPH)	Delta-V, Iongitudinal (km/h)
-70	0.0	0.0
-60	0.0	0.0
-50	-0.6	-1.0
-40	-1.2	-2.0
-30	-1.9	-3.0
-20	-2.5	-4.0
-10	-3.1	-5.0
0	-3.7	-6.0
10	-4.3	-7.0
20	-5.0	-8.0
30	-5.6	-9.0
40	-5.6	-9.0
50	-5.6	-9.0
60	-5.6	-9.0
70	-5.6	-9.0
80	-5.6	-9.0
90	-5.6	-9.0
100	-5.6	-9.0
110	-5.6	-9.0
120	-5.6	-9.0
130	-5.6	-9.0

Time (msec)	Delta-V, longitudinal (MPH)	Delta-V, Iongitudinal (km/h)
140	-5.6	-9.0
150	-5.6	-9.0
160	-6.2	-10.0
170	-6.2	-10.0
180	-6.2	-10.0
190	-6.8	-11.0
200	-6.8	-11.0
210	-7.5	-12.0
220	-7.5	-12.0







Time (msec)	Delta-V, lateral (MPH)	Delta-V, lateral (km/h)
-70	0.0	0.0
-60	0.0	0.0
-50	-0.6	-1.0
-40	-0.6	-1.0
-30	-1.2	-2.0
-20	-2.5	-4.0
-10	-3.1	-5.0
0	-3.1	-5.0
10	-3.1	-5.0
20	-3.1	-5.0
30	-3.1	-5.0
40	-3.7	-6.0
50	-3.7	-6.0
60	-3.7	-6.0
70	-3.7	-6.0
80	-3.1	-5.0
90	-3.1	-5.0
100	-3.1	-5.0
110	-3.1	-5.0
120	-3.1	-5.0
130	-3.1	-5.0

Time (msec)	Delta-V, lateral (MPH)	Delta-V, lateral (km/h)
140	-3.1	-5.0
150	-3.1	-5.0
160	-3.1	-5.0
170	-3.1	-5.0
180	-2.5	-4.0
190	-1.2	-2.0
200	-0.6	-1.0
210	0.0	0.0
220	0.6	1.0





SDM Recorded Vehicle Lateral Acceleration (Event Record 3)





SDM Recorded Vehicle Vertical Acceleration (Event Record 3)





SDM Recorded Vehicle Roll Rate (Event Record 3)







Time	G
2	0.0
4	0.0
6	0.0
8	0.0
10	0.0
12	0.0
14	-0.7
16	0.0
18	0.0
20	0.0
22	0.0
24	0.0
26	0.0
28	0.0
30	0.0
32	0.0
34	0.0
36	0.0
38	0.0
40	0.0
42	-0.7
44	-3.6
46	-2.2
48	-3.6
50	-4.4

Time	G
52	-4.4
54	0.0
56	-0.7
58	-10.2
60	-2.9
62	0.0
64	-2.9
66	-3.6
68	-2.2
70	-2.2
72	-1.5
74	-3.6
76	-5.1
78	-4.4
80	-1.5
82	-7.3
84	-2.9
86	-3.6
88	-1.5
90	-2.9
92	-2.2
94	-2.2
96	-2.2
98	-2.9
100	-4.4







Milliseconds

Time	G	Tin
2	0.0	52
4	0.0	54
6	0.0	56
8	0.0	58
10	0.0	60
12	0.0	62
14	0.0	64
16	0.0	66
18	0.0	68
20	-1.5	70
22	0.0	72
24	0.0	74
26	0.0	76
28	-0.7	78
30	0.0	80
32	-0.7	82
34	-1.5	84
36	-0.7	86
38	-0.7	88
40	-1.5	90
42	-1.5	92
44	-2.9	94
46	-3.6	96
48	0.0	98
50	-5.1	100

Time	G
52	-2.9
54	-1.5
56	0.7
58	-2.2
60	2.2
62	1.5
64	-1.5
66	-3.6
68	-3.6
70	-2.9
72	0.0
74	-5.8
76	-8.0
78	-3.6
80	-5.8
82	-1.5
84	-3.6
86	-2.2
88	-2.2
90	-0.7
92	-1.5
94	-0.7
96	0.0
98	-1.5
100	-0.7





#### **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.





DID \$31

0000 0010 0020 0030 0040 0050 0060 0070 0100 0110 0120 0130 0140 0150 0140 0150 0160 0170 0180 0190 0200 0210 0220 0230 0220 0230 0240 0250 0250 0250 0250 0250 0250 025	AF500708FF77F777777FFFFFFFFFFFFFFFFFFFFFF	000C012DFF97777777FFFFFFFFFFFFFFFFFFFFFFFFFFFF	0 F F 0 0 6 F F F F F 7 7 7 7 7 7 7 F F F F F F F	0 F 3 5 9 6 F F F F F 7 7 7 7 7 7 7 F F F F F F F	0020065777777777777777777777777777777777	0006F20FFFF777777FFFFFFFFFFFFFFFFFFFFFFF	000060077777777777777777777777777777777	004107FFFFFF899888FFFFFFFFFFFFFFFFFFFFFFFFFF	900109DFFFFF7777777FFFFFFFFFFFFFFFFFFFFFFFFF	F000178FFEF779788FFFFFFFFFFFFFFFFFFFFFFFFFFFF
0350 0360 0370	FF FF FF	FF FF FF	FF FF FF	FF FF FF	FF FF FF	FF FF FF	FF FF	FF FF FF	FF FF	FF FF
0380 0390 0400	FF 7D 7D	FF 7D 7C	FF 7C 7C	FF 7C 7D	FF 7C 7C	FF 7D 7C	7E 7D 7E	7E 7D 78	7С 7С	7E 7C 78
0410 0420	7A 7B	7B 7B	7A 7B	7A 7C	7A 7C	79 7C	7A 7C	7B 7D	7B 7D	7B 7D
0430 0440	7E 7B	7E 7B	7F 7C	7F 7A	7F 7B	7F 7C	7D 7A	7C 7A	7C 7B	7C 7B
0450 0460	7A 7A	7B 7B	7B 7B	7B 7B	79 7C	79 7D	7B 7D	7A 7E	78 7E	7B 7F
0470 0480 0490	7F 7F 00	7F 7F 00	7F 7F 00	7F 7F 00	7F 7F 00	7F 7F 00	00 00	00 00	00 00	00 00
DID \$32										
0000 0010 0020 0030 0040 0050 0060	A5 57 5C 00 16 09 8E	E0 00 FC 00 17 4C FD	01 FF FC 00 06 51 80	00 FF 30 05 CA 61 52	02 80 20 40 06 69 00	01 03 60 FF D7 6D FF	0F 03 C0 F0 0A 0C FF	0F 00 40 11 0C FF FF	94 00 00 12 06 FD FF	00 00 14 07 0F FF



🕪 BOSCH







0170	$\mathbf{FF}$									
0180	$\mathbf{FF}$									
0190	$\mathbf{FF}$									
0200	$\mathbf{FF}$									
0210	$\mathbf{FF}$									
0220	$\mathbf{FF}$									
0230	$\mathbf{FF}$									
0240	$\mathbf{FF}$									
0250	$\mathbf{FF}$									
0260	$\mathbf{FF}$									
0270	$\mathbf{FF}$									
0280	$\mathbf{FF}$									
0290	$\mathbf{FF}$									
0300	$\mathbf{FF}$									
0310	$\mathbf{FF}$									
0320	$\mathbf{FF}$									
0330	$\mathbf{FF}$									
0340	$\mathbf{FF}$									
0350	$\mathbf{FF}$									
0360	$\mathbf{FF}$									
0370	$\mathbf{FF}$									
0380	$\mathbf{FF}$	$\mathbf{FF}$	$\mathbf{FF}$	$\mathbf{FF}$	$\mathbf{FF}$	$\mathbf{FF}$	7F	7f	7F	7F
0390	7F	7F	7E	7F						
0400	7f	7f	7f	7f	7F	7f	7E	7A	7C	7A
0410	79	79	7f	7E	71	7B	7F	7B	7A	7C
0420	7C	7D	7A	78	79	7D	75	7B	7A	7D
0430	7B	7C	7C	7C	7В	79	7F	7f	7F	7F
0440	7f	7f	7f	7f	7F	7D	7F	7f	7F	7E
0450	7f	7E	7D	7E	7E	7D	7D	7B	7A	7F
0460	78	7B	7D	80	7C	82	81	7D	7A	7A
0470	7B	7f	77	74	7A	77	7D	7A	7C	7C
0480	7E	7D	7E	7F	7D	7E	00	00	00	00
0490	00	00	00	00	00	00	00	00	00	00

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