

**United States Code of Federal Regulations  
Title 49 Part 563**

**EVENT DATA RECORDERS**

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**Authority:** 49 U.S.C. 322, 30101, 30111, 30115, 30117, 30166, 30168 delegation of authority at 49 CFR 1.50.

**§ 563.1 Scope.**

This part specifies uniform, national requirements for vehicles equipped with event data recorders (EDRs) concerning the collection, storage, and retrievability of onboard motor vehicle crash event data. It also specifies requirements for vehicle manufacturers to make tools and/or methods commercially available so that crash investigators and researchers are able to retrieve data from EDRs.

**§ 563.2 Purpose.**

The purpose of this part is to help ensure that EDRs record, in a readily usable manner, data valuable for effective crash investigations and for analysis of safety equipment performance (*e.g.*, advanced restraint systems). These data will help provide a better understanding of the circumstances in which crashes and injuries occur and will lead to safer vehicle designs.

**§ 563.3 Application.**

This part applies to the following vehicles manufactured on or after September 1, 2010, if they are equipped with an event data recorder: passenger cars, multipurpose passenger vehicles, trucks, and buses with a GVWR of 3,855 kg (8,500 pounds) or less and an unloaded vehicle weight of 2,495 kg (5,500 pounds) or less, except for walk-in van-type trucks or vehicles designed to be sold exclusively to the U.S. Postal Service.

This part also applies to manufacturers of those vehicles. However, vehicles manufactured before September 1, 2011 that are manufactured in two or more stages or that are altered (within the meaning of 49 CFR 567.7) after having been previously certified to the Federal motor vehicle safety standards in accordance with Part 567 of this chapter need not meet the requirements of this part.

#### **§ 563.4 Incorporation by reference.**

The materials listed in this section are incorporated by reference in the corresponding sections as noted. These incorporations by reference were approved by the Director of the Federal Register in accordance with 5 U.S.C. 522(a) and 1 CFR Part 51. Copies of these materials may be inspected at the National Highway Traffic Safety Administration, Technical Information Services, 400 Seventh Street, S.W., Plaza Level, Room 403, Washington, D.C. 20590, or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call (202) 741-6030, or go to:

[http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html)

(a) The following materials are available for purchase from the Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096-0001.

(1) Society of Automotive Engineers (SAE) Recommended Practice J211-1 rev. March 1995, "Instrumentation For Impact Test – Part 1 – Electronic Instrumentation." SAE J211-1 (rev. March 1995) is incorporated by reference in Table 3 of § 563.8;

(2) [Reserved]

(b) [Reserved]

#### **563.5 Definitions.**

(a) Motor vehicle safety standard definitions. Unless otherwise indicated, all terms that are used in this part and are defined in the Motor Vehicle Safety Standards, part 571 of this subchapter, are used as defined therein.

(b) Other definitions.

ABS activity means the anti-lock brake system (ABS) is actively controlling the vehicle's brakes.

Air bag warning lamp status means whether the warning lamp required by FMVSS No. 208 is on or off.

Capture means the process of buffering EDR data in a temporary, volatile storage medium where it is continuously updated at regular time intervals.

Delta-V, lateral means the cumulative change in velocity, as recorded by the EDR of the vehicle, along the lateral axis, starting from crash time zero and ending at 0.25 seconds, and recorded every 0.01 seconds.

Delta-V, longitudinal means the cumulative change in velocity, as recorded by the EDR of the vehicle, along the longitudinal axis, starting from crash time zero and ending at 0.25 seconds, recorded every 0.01 seconds.

Deployment time, frontal air bag means (for both driver and right front passenger) the elapsed time from crash time zero to the deployment command or for multi-staged air bag systems, the deployment command for the first stage.

Disposal means the deployment command of the second (or higher, if present) stage of a frontal air bag for the purpose of disposing the propellant from the air bag device.

End of event time means the moment at which the cumulative delta-V within a 20 ms time period becomes 0.8 km/h (0.5 mph) or less.

Engine RPM means, for vehicles powered by internal combustion engines, the number of revolutions per minute of the main crankshaft of the vehicle's engine, and for vehicles not powered by internal combustion engines, the number of revolutions per minute of the motor shaft at the point at which it enters the vehicle transmission gearbox.

Engine throttle, percent full means the driver requested acceleration as measured by the throttle position sensor on the accelerator pedal compared to the fully depressed position.

Event means a crash or other physical occurrence that causes the trigger threshold to be met or exceeded.

Event data recorder (EDR) means a device or function in a vehicle that records the vehicle's dynamic, time-series data during the time period just prior to a crash event (*e.g.*, vehicle speed vs. time) or during a crash event (*e.g.*, delta-V vs. time), intended for retrieval after the crash event. For the purposes of this definition, the event data do not include audio and video data.

Frontal air bag means an inflatable restraint system that requires no action by vehicle occupants and is used to meet the applicable frontal crash protection requirements of FMVSS No. 208.

Ignition cycle, crash means the number (count) of power cycles applied to the recording device at the time when the crash event occurred since the first use of the EDR.

Ignition cycle download means the number (count) of power cycles applied to the recording device at the time when the data was downloaded since the first use of the EDR.

Lateral acceleration means the component of the vector acceleration of a point in the vehicle in the y-direction. The lateral acceleration is positive from left to right, from the perspective of the driver when seated in the vehicle facing the direction of forward vehicle travel.

Longitudinal acceleration means the component of the vector acceleration of a point in the vehicle in the x-direction. The longitudinal acceleration is positive in the direction of forward vehicle travel.

Maximum delta-V, lateral means the maximum value of the cumulative change in velocity, as recorded by the EDR, of the vehicle along the lateral axis, starting from crash time zero and ending at 0.3 seconds.

Maximum delta-V, longitudinal means the maximum value of the cumulative change in velocity, as recorded by the EDR, of the vehicle along the longitudinal axis, starting from crash time zero and ending at 0.3 seconds.

Multi-event crash means the occurrence of 2 events, the first and last of which begin not more than 5 seconds apart.

Non-volatile memory means the memory reserved for maintaining recorded EDR data in a semi-permanent fashion. Data recorded in non-volatile memory is retained after a loss of power and can be retrieved with EDR data extraction tools and methods.

Normal acceleration means the component of the vector acceleration of a point in the vehicle in the z-direction. The normal acceleration is positive in a downward direction and is zero when the accelerometer is at rest.

Occupant position classification means the classification indicating that the seating posture of a front outboard occupant (both driver and right front passenger) is determined as being out-of-position.

Occupant size classification means, for right front passenger, the classification of an occupant as an adult and not a child, and for driver, the classification of the driver as not being of small stature.

Pretensioner means a device that is activated by a vehicle's crash sensing system and removes slack from a vehicle safety belt system.

Record means the process of saving captured EDR data into a non-volatile device for subsequent retrieval.

Safety belt status means the feedback from the safety system that is used to determine than an occupant's safety belt (for both driver and right front passenger) is fastened or not fastened.

Seat track position switch, foremost, status means the status of the switch that is installed to detect whether the seat is moved to a forward position.

Service brake, on and off means the status of the device that is installed in or connected to the brake pedal system to detect whether the pedal was pressed. The device can include the brake pedal switch or other driver-operated service brake control.

Side air bag means any inflatable occupant restraint device that is mounted to the seat or side structure of the vehicle interior, and that is designed to deploy in a side impact crash to help mitigate occupant injury and/or ejection.

Side curtain/tube air bag means any inflatable occupant restraint device that is mounted to the side structure of the vehicle interior, and that is designed to deploy in a side impact crash or rollover and to help mitigate occupant injury and/or ejection.

Speed, vehicle indicated means the vehicle speed indicated by a manufacturer-designated subsystem designed to indicate the vehicle's ground travel speed during vehicle operation.

Stability control means any device that is not directly controlled by the operator (*e.g.*, steering or brakes) and is intended to prevent loss of vehicle control by sensing, interpreting, and adjusting a vehicle's driving and handling characteristics, is controlling or assisting the driver in controlling the vehicle.

Steering wheel angle means the angular displacement of the steering wheel measured from the straight-ahead position (position corresponding to zero average steer angle of a pair of steered wheels).

Suppression switch status means the status of the switch indicating whether an air bag suppression system is on or off.

Time from event 1 to 2 means the elapsed time from time zero of the first event to time zero of the second event.

Time, maximum delta-V, longitudinal means the time from crash time zero to the point where the maximum value of the cumulative change in velocity is found, as recorded by the EDR, along the longitudinal axis.

Time to deploy, pretensioner means the elapsed time from crash time zero to the deployment command for the safety belt pretensioner (for both driver and right front passenger).

Time to deploy, side air bag/curtain means the elapsed time from crash time zero to the deployment command for a side air bag or a side curtain/tube air bag (for both driver and right front passenger).

Time to first stage means the elapsed time between time zero and the time when the first stage of a frontal air bag is commanded to fire.

Time to maximum delta-V, lateral means time from crash time zero to the point where the maximum value of the cumulative change in velocity is found, as recorded by the EDR, along the lateral axis.

Time to n<sup>th</sup> stage means the elapsed time from the crash time zero to the deployment command for the n<sup>th</sup> stage of a frontal air bag (for both driver and right front passenger).

Time zero means for systems with "wake-up" air bag control systems, the time occupant restraint control algorithm is activated; for continuously running algorithms, the first point in the interval where a longitudinal, cumulative delta-V of over 0.8 km/h (0.5 mph) is reached within a 20 ms time period; or for vehicles that record "delta-V, lateral," the first point in the interval where a lateral, cumulative delta-V of over 0.8 km/h (0.5 mph) is reached within a 5 ms time period.

Trigger threshold means a change in vehicle velocity, in the longitudinal direction, that equals or exceeds 8 km/h within a 150 ms interval. For vehicles that record "delta-V, lateral," trigger threshold means a change in vehicle velocity, in either the longitudinal or lateral direction that equals or exceeds 8 km/h within a 150 ms interval.

Vehicle roll angle means the angle between the vehicle y-axis and the ground plane.

Volatile memory means the memory reserved for buffering of captured EDR data. The memory is not capable of retaining data in a semi-permanent fashion. Data captured in a volatile memory is continuously overwritten and is not retained in the event of a power loss or retrievable with EDR data extraction tools.

X-direction means in the direction of the vehicle X-axis, which is parallel to the vehicle's longitudinal centerline. The X-direction is positive in the direction of forward vehicle travel.

Y-direction means in the direction of the vehicle Y-axis, which is perpendicular to its X-axis and in the same horizontal plane as that axis. The Y-direction is positive from left to right, from the perspective of the driver when seated in the vehicle facing the direction of forward vehicle travel.

Z-direction means in the direction of the vehicle Z-axis, which is perpendicular to the X- and Y-axes. The Z-direction is positive in a downward direction.

#### **§ 563.6 Requirements for vehicles.**

Each vehicle equipped with an EDR must meet the requirements specified in § 563.7 for data elements, § 563.8 for data format, § 563.9 for data capture, § 563.10 for crash test performance and survivability, and § 563.11 for information in owner's manual.

#### **§ 563.7 Data elements.**

(a) Data elements required for all vehicles. Each vehicle equipped with an EDR must record all of the data elements listed in Table I, during the interval/time and at the sample rate specified in that table.

**TABLE I – DATA ELEMENTS REQUIRED FOR ALL VEHICLES  
EQUIPPED WITH AN EDR**

<b>Data Element</b>	<b>Recording Interval/Time<sup>1</sup> (Relative to time zero)</b>	<b>Data Sample Rate Samples per Second</b>
Delta-V, longitudinal	0 to 250 ms	100
Maximum delta-V, longitudinal	0-300 ms	n.a.
Time, maximum delta-V	0-300 ms	n.a.
Speed, vehicle indicated	-5.0 to 0 sec	2
Engine throttle, % full (or accelerator pedal, % full)	-5.0 to 0 sec	2
Service brake, on/off	-5.0 to 0 sec	2
Ignition cycle, crash	-1.0 sec	n.a.
Ignition cycle, download	At time of download	n.a.
Safety belt status, driver	-1.0 sec	n.a.
Frontal air bag warning lamp, on/off	-1.0 sec	n.a.
Frontal air bag deployment, time to deploy, in the case of a single stage air bag, or time to first stage deployment, in the case of a multi-stage air bag, driver	Event	n.a.
Frontal air bag deployment, time to deploy, in the case of a single stage air bag, or time to first stage deployment, in the case of a multi-stage air bag, right front passenger	Event	n.a.
Multi-event, number of events (1,2)	Event	n.a.
Time from event 1 to 2	As needed	n.a.
Complete file recorded (yes, no)	Following other data	n.a.

<sup>1</sup>Pre-crash data and crash data are asynchronous. The sample time accuracy requirement for pre-crash time is -0.1 to 1.0 sec (*e.g.*, T = -1 would need to occur between -1.1 and 0 seconds.)

(b) Data elements required for vehicles under specified conditions. Each vehicle equipped with an EDR must record each of the data elements listed in column 1 of Table II for which the vehicle meets the condition specified in column 2 of that table, during the interval/time and at the sample rate specified in that table.

**TABLE II - DATA ELEMENTS REQUIRED FOR VEHICLES  
UNDER SPECIFIED CONDITIONS**

<b>Data Element Name</b>	<b>Condition for Requirement</b>	<b>Recording Interval / Time<sup>1</sup> (Relative to time zero)</b>	<b>Data Sample Rate (Per Second)</b>
Lateral acceleration	If recorded <sup>2</sup>	0-250 ms	500
Longitudinal acceleration	If recorded	0-250 ms	500
Normal acceleration	If recorded	0-250 ms	500
Delta-V, lateral	If recorded	0-250 ms	100
Maximum delta-V, lateral	If recorded	0-300 ms	n.a.
Time maximum delta-V, lateral	If recorded	0-300 ms	n.a.
Time for maximum delta-V, resultant	If recorded	0-300 ms	n.a.
Engine rpm	If recorded	-5.0 to 0 sec	2
Vehicle roll angle	If recorded	-1.0 up to 5.0 sec <sup>3</sup>	10
ABS activity (engaged, non-engaged)	If recorded	-5.0 to 0 sec	2
Stability control (on, off, engaged)	If recorded	-5.0 to 0 sec	2
Steering input	If recorded	-5.0 to 0 sec	2
Safety belt status, right front passenger (buckled, not buckled)	If recorded	-1.0 sec	n.a.
Frontal air bag suppression switch status, right front	If recorded	-1.0 sec	n.a.

<sup>1</sup>Pre-crash data and crash data are asynchronous. The sample time accuracy requirement for pre-crash time is -0.1 to 1.0 sec (e.g. T = -1 would need to occur between -1.1 and 0 seconds.)

<sup>2</sup>“If recorded” means if the data is recorded in non-volatile memory for the purpose of subsequent downloading.

<sup>3</sup>“vehicle roll angle” may be recorded in any time duration, -1.0 sec to 5.0 sec is suggested.

**TABLE II - DATA ELEMENTS REQUIRED FOR VEHICLES  
UNDER SPECIFIED CONDITIONS CONTINUED**

Passenger (on, off, or auto)			
Frontal air bag deployment, time to n <sup>th</sup> stage, driver <sup>4</sup>	If equipped with a driver's frontal air bag with a multi-stage inflator.	Event	n.a.
Frontal air bag deployment, time to n <sup>th</sup> stage, right front passenger <sup>4</sup>	If equipped with a right front passenger's frontal air bag with a multi-stage inflator.	Event	n.a.
Frontal air bag deployment, n <sup>th</sup> stage disposal, driver, Y/N (whether the nth stage deployment was for occupant restraint or propellant disposal purposes)	If recorded	Event	n.a.
Frontal air bag deployment, n <sup>th</sup> stage disposal, right front passenger, Y/N (whether the nth stage deployment was for occupant restraint or propellant disposal purposes)	If recorded	Event	n.a.
Side air bag deployment, time to deploy, driver	If recorded	Event	n.a.
Side air bag deployment, time to deploy, right front passenger	If recorded	Event	n.a.
Side curtain/tube air bag deployment, time to deploy, driver side	If recorded	Event	n.a.
Side curtain/tube air bag deployment, time to deploy, right side	If recorded	Event	n.a.
Pretensioner deployment, time to fire, driver	If recorded	Event	n.a.
Pretensioner deployment, time to fire, right front passenger	If recorded	Event	n.a.
Seat track position switch, foremost, status, driver	If recorded	-1.0 sec	n.a.
Seat track position	If recorded	-1.0 sec	n.a.
Switch, foremost, status, right front passenger			
Occupant size classification, driver	If recorded	-1.0 sec	n.a.
Occupant size classification, right front passenger	If recorded	-1.0 sec	n.a.
Occupant position classification, driver	If recorded	-1.0 sec	n.a.
Occupant position classification, right front passenger	If recorded	-1.0 sec	n.a.

<sup>4</sup>List this element n-1 times, once for each stage of a multi-stage air bag system.

§ 563.8 Data format.

(a) The data elements listed in Tables I and II, as applicable, must be recorded in accordance with the range, accuracy, resolution, and filter class specified in Table III.

**TABLE III - RECORDED DATA ELEMENT FORMAT**

<b>Data Element</b>	<b>Range</b>	<b>Accuracy</b>	<b>Resolution</b>	<b>Filter Class</b>
Lateral acceleration	-50 g to +50 g	+/- 5 %	0.01 g	SAE J211-1, Class 60
Longitudinal acceleration	-50 g to +50 g	+/- 5%	0.01 g	SAE J211-1, Class 60
Normal Acceleration	-50 g to + 50 g	+/- 5%	0.01 g	SAE J211-1, Class 60
Longitudinal delta-V	-100 km/h to + 100 km/h	+/- 5%	1 km/h	n.a.
Lateral delta-V	-100 km/h to +100 km/h	+/- 5%	1 km/h	n.a.
Maximum delta-V, longitudinal	-100 km/h to +100 km/h	+/- 5%	1 km/h	n.a.
Maximum delta-V, lateral	-100 km/h to +100 km/h	+/- 5%	1 km/h	n.a.
Time, maximum delta-V, longitudinal	0-300 ms	+/- 3 ms	2.5 ms	n.a.
Time, maximum delta-V, lateral	0-300 ms	+/- 3 ms	2.5 ms	n.a.
Time, maximum delta-V, resultant	0-300 ms	+/- 3 ms	2.5 ms	n.a.
Vehicle Roll Angle	-1080 deg to +1080 deg	+/- 10 deg	10 deg	n.a.
Speed, vehicle indicated	0 km/h to 200 km/h	+/- 1 km/h	1 km/h	n.a.
Engine throttle, percent full (accelerator pedal percent full)	0 to 100%	+/- 5%	1 %	n.a.
Engine rpm	0 to 10,000 rpm	+/- 100 rpm	100 rpm	n.a.
Service brake, on, off	On and Off	n.a.	On and Off	n.a.
ABS activity	On and Off	n.a.	On and Off	n.a.
Stability control (on, off, engaged)	On, Off, Engaged	n.a.	On, Off, Engaged	n.a.
Steering wheel angle	-250 deg CW to + 250 deg CCW.	+/- 5 deg	5 deg	n.a.

Ignition cycle, crash	0 to 60,000	+/- 1 cycle	1 cycle	n.a.
Ignition cycle, download	0 to 60,000	+/- 1 cycle	1 cycle	n.a.
Safety belt status, driver	On or Off	n.a.	On or Off	n.a.
Safety belt status, right front passenger	On or Off	n.a.	On or Off	n.a.
Frontal air bag warning lamp (on, off)	On or Off	n.a.	On or Off	n.a.
Frontal air bag suppression switch status	On or Off	n.a.	On or Off	n.a.
Frontal air bag deployment, time to deploy/first stage, driver	0 to 250 ms	+/- 2 ms	1 ms	n.a.
Frontal air bag deployment, time to deploy/first stage, right front passenger	0 to 250 ms	+/- 2 ms	1 ms	n.a.
Frontal air bag deployment, time to n <sup>th</sup> stage, driver	0 to 250 ms	+/- 2 ms	1 ms	n.a.
Frontal air bag deployment, time to n <sup>th</sup> stage, right front passenger	0 to 250 ms	+/- 2 ms	1 ms	n.a.
Frontal air bag deployment, nth stage disposal, driver, y/n	Yes/No	n.a.	Yes/No	n.a.
Frontal air bag deployment, nth stage disposal, right front passenger, y/n	Yes/No	n.a.	Yes/No	n.a.
Side air bag deployment, time to deploy, driver	0 to 250 ms	+/- 2 ms	1 ms	n.a.
Side air bag deployment, time to deploy, right front passenger	0 to 250 ms	+/- 2 ms	1 ms	n.a.
Side curtain/tube air bag deployment, time to deploy, driver side	0 to 250 ms	+/- 2 ms	1 ms	n.a.
Side curtain/tube air bag deployment, time to deploy, right side	0 to 250 ms	+/- 2 ms	1 ms	n.a.
Pretensioner deployment, time to fire, driver	0 to 250 ms	+/- 2 ms	1 ms	n.a.
Pretensioner deployment, time to fire, right front passenger	0 to 250 ms	+/- 2 ms	1 ms	n.a.
Seat track position switch, foremost, status, driver	Yes/No	n.a.	Yes/No	n.a.
Seat track position switch, foremost, status, right front passenger	Yes/No	n.a.	Yes/No	n.a.
Occupant size driver occupant 5 <sup>th</sup> female size y/n	Yes/No	n.a.	Yes/No	n.a.
Occupant size right front passenger child y/n	Yes/No	n.a.	Yes/No	n.a.

Occupant position classification, driver oop y/n	Yes/No	n.a.	Yes/No	n.a.
Occupant position classification, right front passenger oop y/n	Yes/No	n.a.	Yes/No	n.a.
Multi-event, number of events (1,2)	1 or 2	n.a.	1 or 2	n.a.
Time from event 1 to 2	0 to 5.0 sec	0.1 sec	0.1 sec	n.a.
Complete file recorded (yes/no)	Yes/No	n.a.	Yes/No	n.a.

<sup>1</sup>Incorporated by reference, see § 563.4.

(b) Acceleration Time-History data and format: The longitudinal, lateral, and normal acceleration time-history data, as applicable, must be filtered in accordance with the filter class specified in Table III either during the recording phase or during the data downloading phase to include:

(1) the Time Step (TS) that is the inverse of the sampling frequency of the acceleration data and which has units of seconds;

(2) the number of the first point (NFP), which is an integer that when multiplied by the TS equals the time relative to time zero of the first acceleration data point;

(3) the number of the last point (NLP), which is an integer that when multiplied by the TS equals the time relative to time zero of the last acceleration data point; and

(4) NLP-NFP+1 acceleration values sequentially beginning with the acceleration at time NFP\*TS and continue sampling the acceleration at TS increments in time until the time NLP\*TS is reached.

### **§ 563.9 Data capture.**

The EDR must capture and record the data elements for events in accordance with the following conditions and circumstances:

(a) In an air bag deployment crash, the data recorded from any previous crash must be deleted (both events). The data related to the deployment must be captured and recorded. The memory must be locked to prevent any future overwriting of these data.

(b) In an air bag non-deployment crash that meets the trigger threshold, delete all previously recorded data in the EDR's memory. Capture and record the current data, up to two events. In the case of two events, detection of the second event starts after the End of Event Time for event 1.

### **§ 563.10 Crash test performance and survivability.**

(a) Each vehicle subject to the requirements of S5, S14.5, S15, or S17 of 49 CFR § 571.208, Occupant crash protection, must comply with the requirements in subpart (c) of this section when tested according to S8, S16, and S18 of 49 CFR § 571.208.

(b) Each vehicle subject to the requirements of 49 CFR § 571.214, Side impact protection, that meets a trigger threshold or has a frontal air bag deployment, must comply with the requirements of subpart (c) of this section when tested according to the conditions specified in 49 CFR § 571.214 for a moving deformable barrier test.

(c) The data elements required by § 563.7, except for the “Engine throttle, percent full,” “engine RPM,” and “service brake, on/off,” must be recorded in the format specified by § 563.8, exist at the completion of the crash test, and be retrievable by the methodology specified by the vehicle manufacturer under § 563.12 for not less than 10 days after the test, and the complete data recorded element must read “yes” after the test.

### **§ 563.11 Information in owner’s manual.**

(a) The owner’s manual in each vehicle covered under this regulation must provide the following statement in English:

This vehicle is equipped with an event data recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle’s systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less. The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating;
- Whether or not the driver and passenger safety belts were buckled/fastened;
- How far (if at all) the driver was depressing the accelerator and/or brake pedal; and,
- How fast the vehicle was traveling.

These data can help provide a better understanding of the circumstances in which crashes and injuries occur. NOTE: EDR data are recorded by your vehicle only if a non-trivial crash situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (*e.g.*, name, gender, age, and crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

To read data recorded by an EDR, special equipment is required, and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR.

(b) The owner's manual may include additional information about the form, function, and capabilities of the EDR, in supplement to the required statement in 563.11(a).

**§ 563.12 Data retrieval tools.**

Each manufacturer of a motor vehicle equipped with an EDR shall ensure by licensing agreement or other means that a tool(s) is commercially available that is capable of accessing and retrieving the data stored in the EDR that are required by this part. The tool(s) shall be commercially available not later than 90 days after the first sale of the motor vehicle for purposes other than resale.