

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	1G1RC6E40BU100049
User	BILL SMITH
Case Number	VOLT-RENO, NV
EDR Data Imaging Date	11/01/2011
Crash Date	
Filename	1G1RC6E40BU100049_ACM.CDRX
Saved on	Tuesday, November 1 2011 at 10:30:33
Collected with CDR version	Crash Data Retrieval Tool 4.1
Reported with CDR version	Crash Data Retrieval Tool 4.1
EDR Device Type	Airbag Control Module
Event(s) recovered	Deployment

## Comments

LAMP TEST-ON STEADY  
DOWNLOADED THROUGH DLC WITH EXTERNAL POWER SOURCE  
MILEAGE-9779 MILES  
COPART-9915N N. VIRGINIA, RENO, NV  
BILL SMITH-ESIS/GENERAL MOTORS CLAIMS UNIT

## 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 overwritten 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 a calibrated angle threshold is reached. For Deployment Events, the SDM will record up to 490 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.

-Deployment loops may be displayed as being deployed in a Non-Deployment event record, if a Deployment event is qualified during the Non-Deployment event. That is, if two or more events are occurring at the same time and one is a Non-Deployment event and one of the others is a Deployment event, and the Deployment event is qualified while the Non-Deployment is still active, the deployed loops may be recorded in the Non-Deployment event record.

- Deployment loops can only be deployed once per module power cycle.
- 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-Deployments, 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.

01038\_SDM10-autoliv\_r008

### Event Data (General)

Ignition Cycles At Investigation	1346
ESS # 1 Traceability Data	AU2577E012D3666D
ESS # 2 Traceability Data	AT2577E00CE9E71E
ESS # 3 Traceability Data	AH0000E000000000
ESS # 4 Traceability Data	AJ0000E000000000
ESS # 5 Traceability Data	DA2577E012CE4610
ESS # 6 Traceability Data	DB2577E00CE9E321
ESS # 7 Traceability Data	000000E000000000
ESS # 8 Traceability Data	000000E000000000
Vehicle Identification Number	1G1RC6E40BU100049
System Type	Autoliv
Manufacturing Traceability Data	AS4895E050003834
Software Module Identifier 1	00CF22EB
Software Module Identifier 2	015B5070
Software Module Identifier 3	0189ECCF
End Model Part Number	00CF22EF

## Event Data (Event Record 1)

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	1
Event Counter	1
OnStar Notification Event Counter	1
Algorithm Active: Rear	No
Algorithm Active: Rollover	Yes
Algorithm Active: Side	Yes
Algorithm Active: Frontal	Yes
Ignition Cycles At Event	1344
Time Between Events (sec)	Data Not Available
Concurrent Event Flag Set	No
Event Severity Status: Rollover	No
Event Severity Status: Rear	No
Event Severity Status: Right Side	Yes
Event Severity Status: Left Side	No
Event Severity Status: Frontal Stage 2	Yes
Event Severity Status: Frontal Stage 1	Yes
Event Severity Status: Frontal Pretensioner	Yes
Driver 1st Stage Deployment Loop Commanded	Yes
Passenger 1st Stage Deployment Loop Commanded	No
Driver 2nd Stage Deployment Loop Commanded	Yes
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)	Yes
Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)	Yes
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)	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)	Yes
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)	Yes
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
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	Not Buckled
Driver Seat Position Status (If Equipped)	Data Not Available
Passenger Seat Position Status (If Equipped)	Data Not Available
Passenger Seat Occupancy Status	Empty
Passenger Classification Status	Not Applicable
Passenger SIR Suppression Switch Circuit Status (If Equipped)	Data Not Available
Passenger Air Bag ON Indicator Status	Off
Passenger Air Bag OFF Indicator Status	On
Low Tire Pressure Warning Lamp	Off
SIR Warning Lamp Status	Off

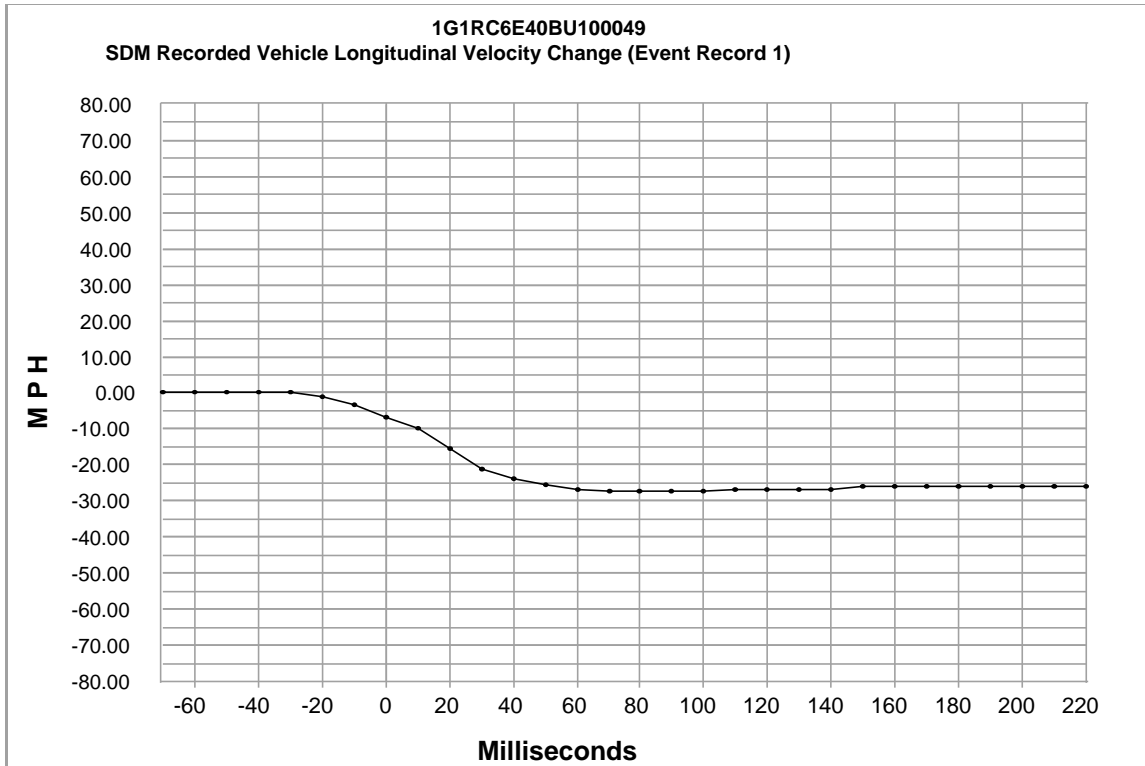
SIR Warning Lamp ON/OFF Time Continuously (seconds)	655330
Number of Ignition Cycles SIR Warning Lamp was ON/OFF Continuously	1268
Ignition Cycles Since DTCs Were Last Cleared at Event Enable	253
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
Diagnostic Trouble Codes at Event:	N/A
Fault type	N/A
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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:	B0052
Fault type	\$00
Time From Algorithm Enable to Maximum SDM Recorded Vehicle Velocity Change (msec)	110
Longitudinal SDM Recorded Vehicle Velocity Change at time of Maximum SDM Recorded Vehicle Velocity Change MPH [km/h]	-27 [-44]
Lateral SDM Recorded Vehicle Velocity Change at time of Maximum SDM Recorded Vehicle Velocity Change MPH [km/h]	-9 [-14]
Driver 1st Stage Time From Algorithm Enable to Deployment Command Criteria Met (msec)	24
Driver 2nd Stage Time From Algorithm Enable to Deployment Command Criteria Met (msec)	30
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)	30
Passenger Thorax/Curtain Time From Algorithm Enable to Deployment Command Criteria Met (msec)	30
Driver Pretensioner Time From Algorithm Enable to Deployment Loop #1 or Loop #2 Command Criteria Met (msec)	3
Passenger Pretensioner Time From Algorithm Enable to Deployment Loop #1 or Loop #2 Command Criteria Met (msec)	3
Rollover Sensor - time from Event Enable to time of angle threshold (msec)	0

**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	No	No	No	-1 [-2]	Off
-0.5	No	No	No	42 [ 58]	Off

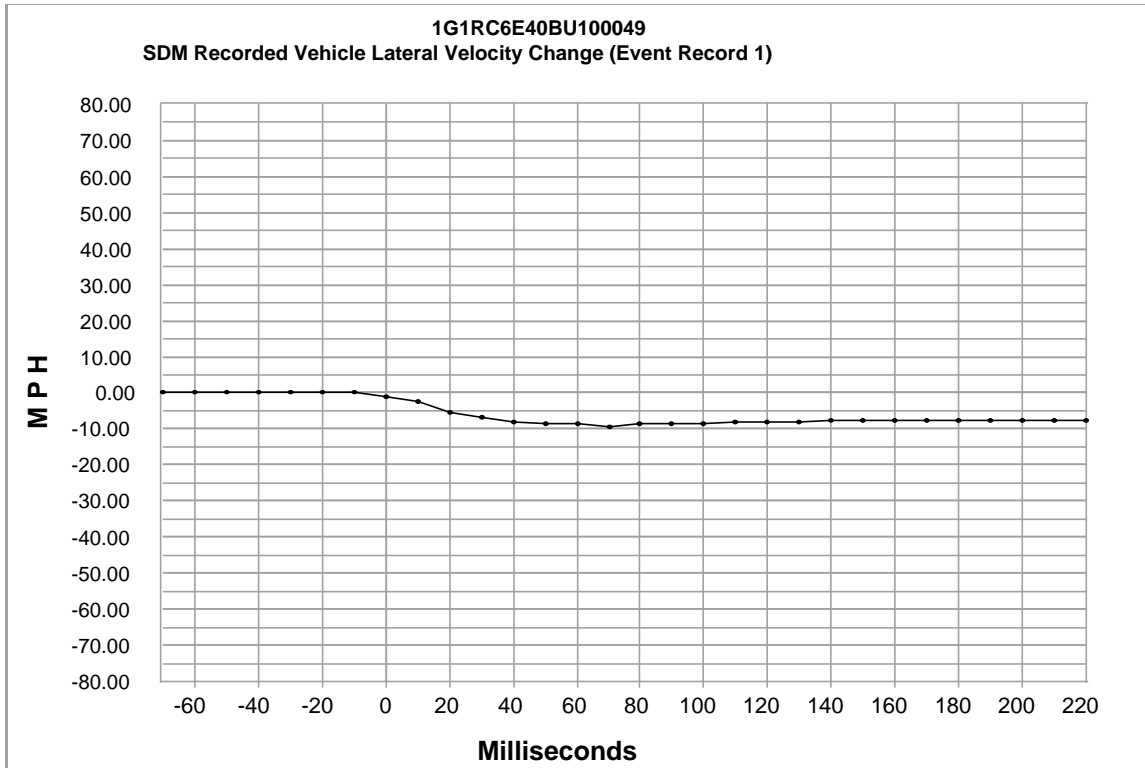
**Pre-Crash Data -2.5 to -.5 sec (Event Record 1)**

Times (sec)	Accelerator Pedal Position (percent)	Brake Switch Circuit State	Engine Speed	Throttle Position (%)	Vehicle Speed (MPH [km/h])
-2.5	0	Off	1472	85	51 [ 82]
-2.0	0	Off	1472	85	50 [ 81]
-1.5	0	Off	1472	85	50 [ 81]
-1.0	0	On	1536	34	47 [ 76]
-0.5	0	On	1536	17	35 [ 57]



Time (msec)	Delta-V, longitudinal (MPH)	Delta-V, longitudinal (km/h)
-70	0.0	0.0
-60	0.0	0.0
-50	0.0	0.0
-40	0.0	0.0
-30	0.0	0.0
-20	-1.2	-2.0
-10	-3.1	-5.0
0	-6.8	-11.0
10	-9.9	-16.0
20	-15.5	-25.0
30	-21.1	-34.0
40	-23.6	-38.0
50	-25.5	-41.0
60	-26.7	-43.0
70	-27.3	-44.0
80	-27.3	-44.0
90	-27.3	-44.0
100	-27.3	-44.0
110	-26.7	-43.0
120	-26.7	-43.0
130	-26.7	-43.0

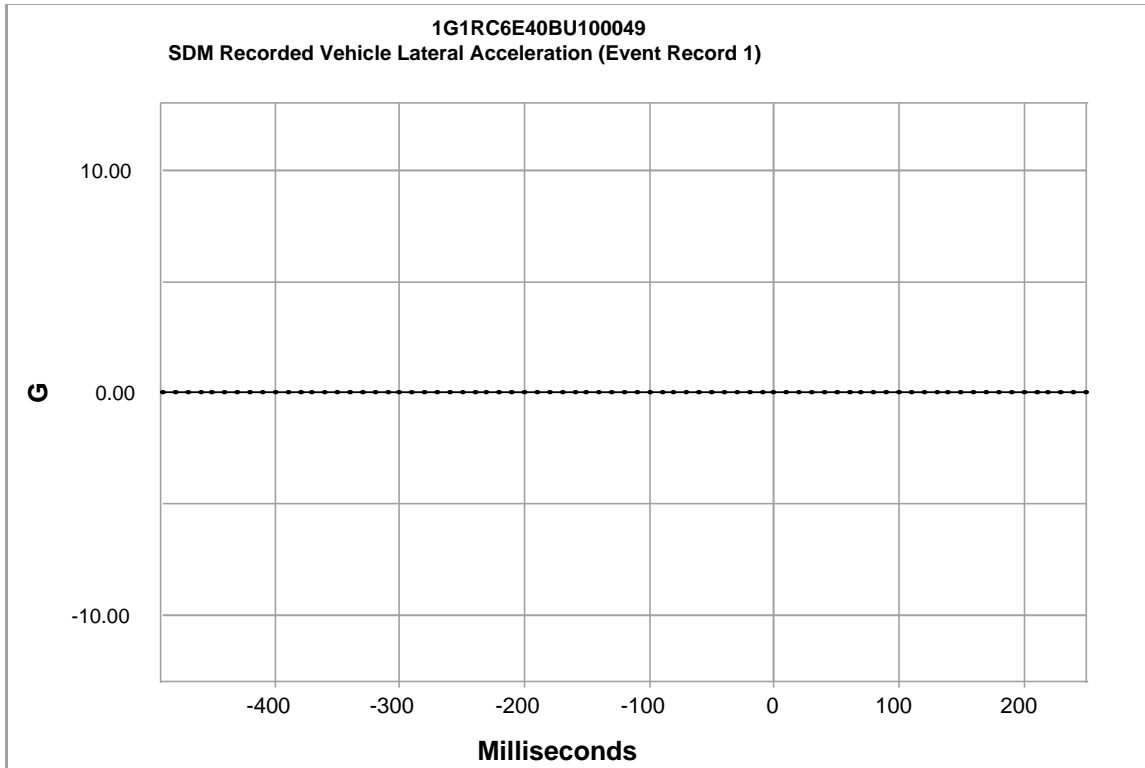
Time (msec)	Delta-V, longitudinal (MPH)	Delta-V, longitudinal (km/h)
140	-26.7	-43.0
150	-26.1	-42.0
160	-26.1	-42.0
170	-26.1	-42.0
180	-26.1	-42.0
190	-26.1	-42.0
200	-26.1	-42.0
210	-26.1	-42.0
220	-26.1	-42.0



Time (msec)	Delta-V, lateral (MPH)	Delta-V, lateral (km/h)
-70	0.0	0.0
-60	0.0	0.0
-50	0.0	0.0
-40	0.0	0.0
-30	0.0	0.0
-20	0.0	0.0
-10	0.0	0.0
0	-1.2	-2.0
10	-2.5	-4.0
20	-5.6	-9.0
30	-6.8	-11.0
40	-8.1	-13.0
50	-8.7	-14.0
60	-8.7	-14.0
70	-9.3	-15.0
80	-8.7	-14.0
90	-8.7	-14.0
100	-8.7	-14.0
110	-8.1	-13.0
120	-8.1	-13.0
130	-8.1	-13.0

Time (msec)	Delta-V, lateral (MPH)	Delta-V, lateral (km/h)
140	-7.5	-12.0
150	-7.5	-12.0
160	-7.5	-12.0
170	-7.5	-12.0
180	-7.5	-12.0
190	-7.5	-12.0
200	-7.5	-12.0
210	-7.5	-12.0
220	-7.5	-12.0

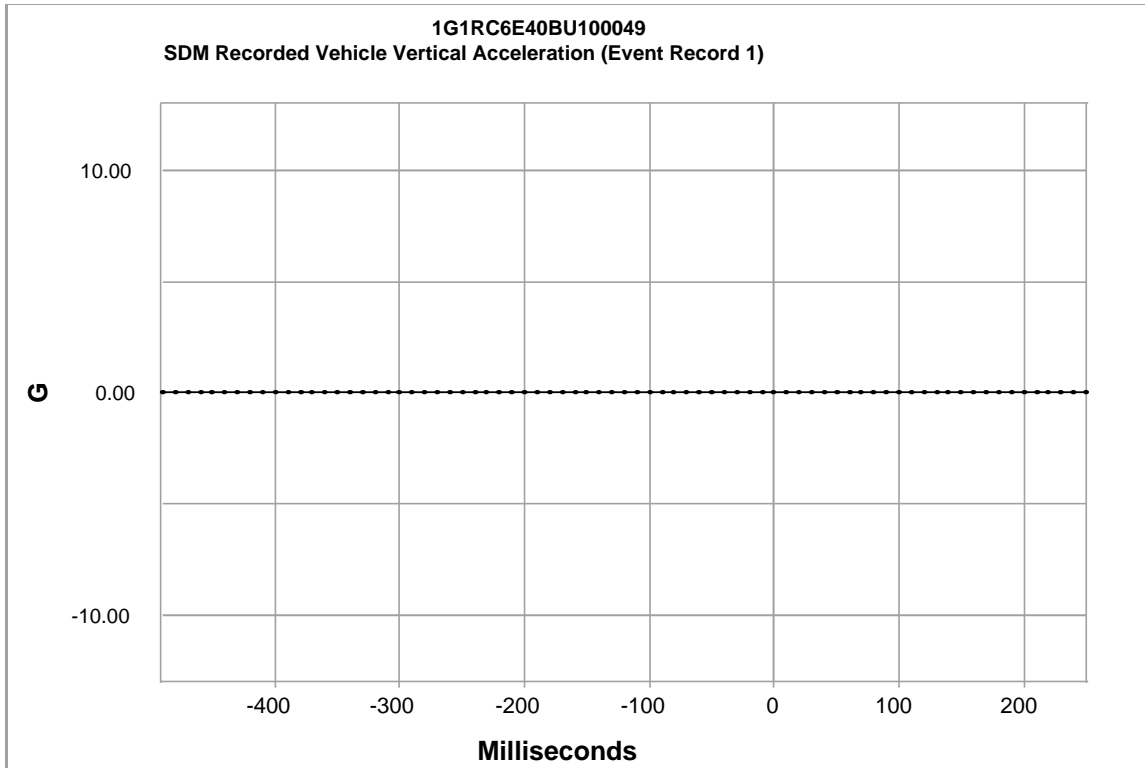




Time (msec)	g
-490	0.0
-480	0.0
-470	0.0
-460	0.0
-450	0.0
-440	0.0
-430	0.0
-420	0.0
-410	0.0
-400	0.0
-390	0.0
-380	0.0
-370	0.0
-360	0.0
-350	0.0
-340	0.0
-330	0.0
-320	0.0
-310	0.0
-300	0.0
-290	0.0
-280	0.0
-270	0.0
-260	0.0
-250	0.0

Time (msec)	g
-240	0.0
-230	0.0
-220	0.0
-210	0.0
-200	0.0
-190	0.0
-180	0.0
-170	0.0
-160	0.0
-150	0.0
-140	0.0
-130	0.0
-120	0.0
-110	0.0
-100	0.0
-90	0.0
-80	0.0
-70	0.0
-60	0.0
-50	0.0
-40	0.0
-30	0.0
-20	0.0
-10	0.0
0	0.0

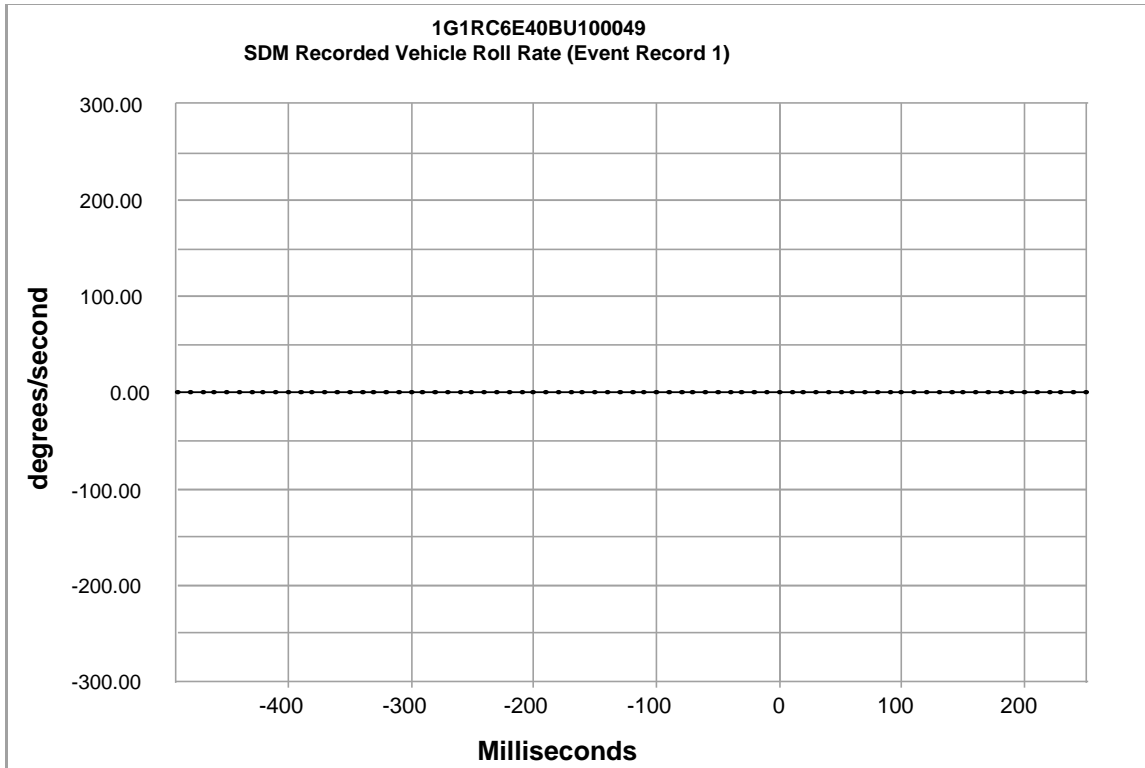
Time (msec)	g
10	0.0
20	0.0
30	0.0
40	0.0
50	0.0
60	0.0
70	0.0
80	0.0
90	0.0
100	0.0
110	0.0
120	0.0
130	0.0
140	0.0
150	0.0
160	0.0
170	0.0
180	0.0
190	0.0
200	0.0
210	0.0
220	0.0
230	0.0
240	0.0
250	0.0



Time (msec)	g
-490	0.0
-480	0.0
-470	0.0
-460	0.0
-450	0.0
-440	0.0
-430	0.0
-420	0.0
-410	0.0
-400	0.0
-390	0.0
-380	0.0
-370	0.0
-360	0.0
-350	0.0
-340	0.0
-330	0.0
-320	0.0
-310	0.0
-300	0.0
-290	0.0
-280	0.0
-270	0.0
-260	0.0
-250	0.0

Time (msec)	g
-240	0.0
-230	0.0
-220	0.0
-210	0.0
-200	0.0
-190	0.0
-180	0.0
-170	0.0
-160	0.0
-150	0.0
-140	0.0
-130	0.0
-120	0.0
-110	0.0
-100	0.0
-90	0.0
-80	0.0
-70	0.0
-60	0.0
-50	0.0
-40	0.0
-30	0.0
-20	0.0
-10	0.0
0	0.0

Time (msec)	g
10	0.0
20	0.0
30	0.0
40	0.0
50	0.0
60	0.0
70	0.0
80	0.0
90	0.0
100	0.0
110	0.0
120	0.0
130	0.0
140	0.0
150	0.0
160	0.0
170	0.0
180	0.0
190	0.0
200	0.0
210	0.0
220	0.0
230	0.0
240	0.0
250	0.0



Time (msec)	deg/sec
-490	0
-480	0
-470	0
-460	0
-450	0
-440	0
-430	0
-420	0
-410	0
-400	0
-390	0
-380	0
-370	0
-360	0
-350	0
-340	0
-330	0
-320	0
-310	0
-300	0
-290	0
-280	0
-270	0
-260	0
-250	0

Time (msec)	deg/sec
-240	0
-230	0
-220	0
-210	0
-200	0
-190	0
-180	0
-170	0
-160	0
-150	0
-140	0
-130	0
-120	0
-110	0
-100	0
-90	0
-80	0
-70	0
-60	0
-50	0
-40	0
-30	0
-20	0
-10	0
0	0

Time (msec)	deg/sec
10	0
20	0
30	0
40	0
50	0
60	0
70	0
80	0
90	0
100	0
110	0
120	0
130	0
140	0
150	0
160	0
170	0
180	0
190	0
200	0
210	0
220	0
230	0
240	0
250	0

## 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.

```
DPID $32
00 FD 05 42 00 00 00

DPID $35
78 00 00 00 00 00 00

DID $01
41 55 32 35 37 37 45 30 31 32 44 33 36 36 36 44

DID $03
41 54 32 35 37 37 45 30 30 43 45 39 45 37 31 45

DID $05
41 48 30 30 30 30 45 30 30 30 30 30 30 30 30

DID $07
41 4A 30 30 30 30 45 30 30 30 30 30 30 30 30

DID $09
44 41 32 35 37 37 45 30 31 32 43 45 34 36 31 30

DID $0B
44 42 32 35 37 37 45 30 30 43 45 39 45 33 32 31

DID $0D
30 30 30 30 30 30 45 30 30 30 30 30 30 30 30

DID $0F
30 30 30 30 30 30 45 30 30 30 30 30 30 30 30

DID $30
01 00 01 01

DID $90
31 47 31 52 43 36 45 34 30 42 55 31 30 30 30 34 39

DID $9A
04 01

DID $B4
41 53 34 38 39 35 45 30 35 30 30 30 33 38 33 34

DID $C1
00 CF 22 EB

DID $C2
01 5B 50 70

DID $C3
01 89 EC CF

DID $CB
00 CF 22 EF
```

DID \$31

```
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0010 FF 00 00 00 2E A3 D3 08 40 00
0020 4C 30 FC F0 00 00 C0 10 00 00
0030 00 00 00 50 00 00 00 18 18 17
0040 17 17 06 9C 07 13 11 22 55 55
0050 55 39 4C 51 51 52 00 FF FD 04
0060 F4 FD 00 00 00 00 00 00 00 00
0070 00 00 00 00 00 00 00 00 00 00
0080 00 00 00 00 00 00 80 52 00 0B
0090 53 71 08 0A FF FF 0A 0A 01 01
0100 7F 7F 7F 7F 7F 7F 7F 7F 7F 7F
0110 7D 7F 7A 7F 74 7D 6F 7B 66 76
0120 5D 74 59 72 56 71 54 71 53 70
0130 53 71 53 71 53 71 54 72 54 72
0140 54 72 54 73 55 73 55 73 55 73
0150 55 73 55 73 55 73 55 73 55 73
0160 7D 7D 7F 7D 7D 7F 7D 7D 7F 7D
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0390 22 00 23 70 14 03 25 00 11 00
0400 32 00 00 01 21 00 00 00 22 00
0410 23 70 14 03 25 00 11 00 32 00
0420 00 01 31 00 00 00 22 00 23 70
0430 14 03 25 00 11 00 32 00 00 01
0440 41 00 00 00 22 00 23 70 00 00
0450 00 00 00 00 00 00 00 00 00 00
0460 00 A9 00 00 11 01 11 20 00 00
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## Disclaimer of Liability

The users of the CDR product and reviewers of the CDR reports and exported data shall ensure that data and information supplied is applicable to the vehicle, vehicle's system(s) and the vehicle ECU. Robert Bosch LLC and all its directors, officers, employees and members shall not be liable for damages arising out of or related to incorrect, incomplete or misinterpreted software and/or data. Robert Bosch LLC expressly excludes all liability for incidental, consequential, special or punitive damages arising from or related to the CDR data, CDR software or use thereof.

## CDR File Information

User Entered VIN	1G1RC6E40BU100049
User	BILL SMITH
Case Number	VOLT-RENO, NV
EDR Data Imaging Date	11/01/2011
Crash Date	
Filename	1G1RC6E40BU100049_ACM.CDRX
Saved on	Tuesday, November 1 2011 at 10:30:33
Collected with CDR version	Crash Data Retrieval Tool 4.1
Reported with CDR version	Crash Data Retrieval Tool 4.1
EDR Device Type	Airbag Control Module
Event(s) recovered	Deployment

**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.

## 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 overwritten 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 a calibrated angle threshold is reached. For Deployment Events, the SDM will record up to 490 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.

-Deployment loops may be displayed as being deployed in a Non-Deployment event record, if a Deployment event is qualified during the Non-Deployment event. That is, if two or more events are occurring at the same time and one is a Non-Deployment event and one of the others is a Deployment event, and the Deployment event is qualified while the Non-Deployment is still active, the deployed loops may be recorded in the Non-Deployment event record.

-Deployment loops can only be deployed once per module power cycle.

-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-Deployments, 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.

01038\_SDM10-autoliv\_r008

### Event Data General (part one)

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DPID \$32 Bytes 2-3	\$0542	Ignition Cycles at Investigation	1346	counts
DID \$01 Bytes 0-1	\$4155	ESS # 1 Traceability Data, Component Identifier	AU	
DID \$01 Bytes 2-5	\$32353737	ESS # 1 Traceability Data, Part Number/Broadcast Code	2577	
DID \$01 Byte 6	\$45	ESS # 1 Traceability Data, Supplier Code	E	
DID \$01 Bytes 7-15	\$3031324433363 63644	ESS # 1 Traceability Data, Traceability Number	012D3666D	
DID \$03 Bytes 0-1	\$4154	ESS # 2 Traceability Data, Component Identifier	AT	
DID \$03 Bytes 2-5	\$32353737	ESS # 2 Traceability Data, Part Number/Broadcast Code	2577	
DID \$03 Byte 6	\$45	ESS # 2 Traceability Data, Supplier Code	E	
DID \$03 Bytes 7-15	\$3030434539453 73145	ESS # 2 Traceability Data, Traceability Number	00CE9E71E	
DID \$05 Bytes 0-1	\$4148	ESS # 3 Traceability Data, Component Identifier	AH	
DID \$05 Bytes 2-5	\$30303030	ESS # 3 Traceability Data, Part Number/Broadcast Code	0000	
DID \$05 Byte 6	\$45	ESS # 3 Traceability Data, Supplier Code	E	
DID \$05 Bytes 7-15	\$3030303030303 03030	ESS # 3 Traceability Data, Traceability Number	000000000	
DID \$07 Bytes 0-1	\$414A	ESS # 4 Traceability Data, Component Identifier	AJ	
DID \$07 Bytes 2-5	\$30303030	ESS # 4 Traceability Data, Part Number/Broadcast Code	0000	
DID \$07 Byte 6	\$45	ESS # 4 Traceability Data, Supplier Code	E	
DID \$07 Bytes 7-15	\$3030303030303 03030	ESS # 4 Traceability Data, Traceability Number	000000000	
DID \$09 Bytes 0-1	\$4441	ESS # 5 Traceability Data, Component Identifier	DA	
DID \$09 Bytes 2-5	\$32353737	ESS # 5 Traceability Data, Part Number/Broadcast Code	2577	
DID \$09 Byte 6	\$45	ESS # 5 Traceability Data, Supplier Code	E	
DID \$09 Bytes 7-15	\$3031324345343 63130	ESS # 5 Traceability Data, Traceability Number	012CE4610	
DID \$0B Bytes 0-1	\$4442	ESS # 6 Traceability Data, Component Identifier	DB	
DID \$0B Bytes 2-5	\$32353737	ESS # 6 Traceability Data, Part Number/Broadcast Code	2577	
DID \$0B Byte 6	\$45	ESS # 6 Traceability Data, Supplier Code	E	
DID \$0B Bytes 7-15	\$3030434539453 33231	ESS #6 Traceability Data, Traceability Number	00CE9E321	
DID \$0D Bytes 0-1	\$3030	ESS # 7 Traceability Data, Component Identifier	00	
DID \$0D Bytes 2-5	\$30303030	ESS # 7 Traceability Data, Part Number/Broadcast Code	0000	
DID \$0D Byte 6	\$45	ESS # 7 Traceability Data, Supplier Code	E	

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$0D Bytes 7-15	\$3030303030303030	ESS # 7 Traceability Data, Traceability Number	000000000	
DID \$0F Bytes 0-1	\$3030	ESS # 8 Traceability Data, Component Identifier	00	
DID \$0F Bytes 2-5	\$30303030	ESS # 8 Traceability Data, Part Number/Broadcast Code	0000	
DID \$0F Byte 6	\$45	ESS # 8 Traceability Data, Supplier Code	E	
DID \$0F Bytes 7-15	\$3030303030303030	ESS # 8 Traceability Data, Traceability Number	000000000	

## Event Record #1 Data

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 0	\$A5	Event Recording Complete	Yes	
DID \$31 Byte 1, bit 7	\$F0	Event Record Type	Deployment	
DID \$31 Byte 1, bit 6	\$F0	Crash Record Locked	Yes	
DID \$31 Byte 1, bit 5	\$F0	Data Recording Complete – Deployment Status Data	Yes	
DID \$31 Byte 1, bit 4	\$F0	Data Recording Complete - SDM Recorded Vehicle Velocity Change Data	Yes	
DID \$31 Byte 2	\$01	Deployment Event Counter	1	
DID \$31 Bytes 3-4	\$0001	Event Counter	1	
DID \$31 Byte 5	\$01	OnStar Notification Event Counter	1	counts
DID \$31 Byte 6, bit 3	\$07	Algorithm Active: Rear	No	
DID \$31 Byte 6, bit 2	\$07	Algorithm Active: Rollover	Yes	
DID \$31 Byte 6, bit 1	\$07	Algorithm Active: Side	Yes	
DID \$31 Byte 6, bit 0	\$07	Algorithm Active: Frontal	Yes	
DID \$31 Bytes 7-8	\$0540	Ignition Cycles at Event	1344	counts
DID \$31 Bytes 9-10	\$FFFF	Time Between Events	Data Not Available	seconds
DID \$31 Byte 11 bit 0	\$00	Concurrent Event Flag Set	No	
DID \$31 Byte 14, bit 7	\$2E	Event Severity Status: Rollover	No	
DID \$31 Byte 14, bit 6	\$2E	Event Severity Status: Rear	No	
DID \$31 Byte 14, bit 5	\$2E	Event Severity Status: Right Side	Yes	
DID \$31 Byte 14, bit 4	\$2E	Event Severity Status: Left Side	No	
DID \$31 Byte 14, bit 3	\$2E	Event Severity Status: Frontal Stage 2	Yes	
DID \$31 Byte 14, bit 2	\$2E	Event Severity Status: Frontal Stage 1	Yes	
DID \$31 Byte 14, bit 1	\$2E	Event Severity Status: Frontal Pretensioner	Yes	
DID \$31 Byte 15 bit 7	\$A3	Driver 1st Stage Deployment Loop Commanded	Yes	
DID \$31 Byte 15 bit 6	\$A3	Passenger 1st Stage Deployment Loop Commanded	No	
DID \$31 Byte 15 bit 5	\$A3	Driver 2nd Stage Deployment Loop Commanded	Yes	
DID \$31 Byte 15 bit 3	\$A3	Passenger 2nd Stage Deployment Loop Commanded	No	
DID \$31 Byte 15 bit 1	\$A3	Driver Pretensioner Deployment Loop #1 Commanded	Yes	
DID \$31 Byte 15 bit 0	\$A3	Passenger Pretensioner Deployment Loop #1 Commanded	Yes	
DID \$31 Byte 16 bit 7	\$D3	Driver Pretensioner Deployment Loop #2 Commanded (If Equipped)	Yes	
DID \$31 Byte 16 bit 6	\$D3	Passenger Pretensioner Deployment Loop #2 Commanded (If Equipped)	Yes	
DID \$31 Byte 16 bit 5	\$D3	Driver Thorax Loop Commanded (If Equipped)	No	

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 16 bit 4	\$D3	Passenger Thorax Loop Commanded (If Equipped)	Yes	
DID \$31 Byte 16 bit 3	\$D3	Driver Row 2 Thorax Loop Commanded (If Equipped)	No	
DID \$31 Byte 16 bit 2	\$D3	Passenger Row 2 Thorax Loop Commanded (If Equipped)	No	
DID \$31 Byte 16 bit 1	\$D3	Driver Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)	Yes	
DID \$31 Byte 16 bit 0	\$D3	Passenger Row 1 Roof Rail/Head Curtain Loop Commanded (If Equipped)	Yes	
DID \$31 Byte 17 bit 7	\$08	Driver Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No	
DID \$31 Byte 17 bit 6	\$08	Passenger Row 2 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No	
DID \$31 Byte 17 bit 5	\$08	Driver Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No	
DID \$31 Byte 17 bit 4	\$08	Passenger Row 3 Roof Rail/Head Curtain Loop Commanded (If Equipped)	No	
DID \$31 Byte 17 bit 3	\$08	Driver Knee Deployment Loop Commanded (If Equipped)	Yes	
DID \$31 Byte 17 bit 2	\$08	Passenger Knee Deployment Loop Commanded (If Equipped)	No	
DID \$31 Byte 17 bit 1	\$08	Driver Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No	
DID \$31 Byte 17 bit 0	\$08	Passenger Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No	
DID \$31 Byte 18 bit 7	\$40	Center Row 2 Pretensioner Deployment Loop Commanded (If Equipped)	No	
DID \$31 Byte 18 bit 6	\$40	Battery Cutoff Loop Commanded (If Equipped)	Yes	
DID \$31 Byte 18 bit 5	\$40	Driver Roll Bar Loop Commanded (If Equipped)	No	
DID \$31 Byte 18 bit 4	\$40	Passenger Roll Bar Loop Commanded (If Equipped)	No	
DID \$31 Byte 18 bit 3	\$40	Steering Column Energy Absorbing Loop Commanded (If Equipped)	No	
DID \$31 Byte 18 bit 2	\$40	Driver Head Rest Loop Commanded (If Equipped)	No	
DID \$31 Byte 18 bit 1	\$40	Passenger Head Rest Loop Commanded (If Equipped)	No	
DID \$31 Byte 18 bit 0	\$40	Driver Row 2 Head Rest Loop Commanded (If Equipped)	No	
DID \$31 Byte 19 bit 7	\$00	Passenger Row 2 Head Rest Loop Commanded (If Equipped)	No	
DID \$31 Byte 19 bit 6	\$00	Center Row 2 Head Rest Loop Commanded (If Equipped)	No	
DID \$31 Byte 20 bits 7-6	\$4C	Driver Belt Switch Circuit Status	Buckled	
DID \$31 Byte 20 bits 5-4	\$4C	Passenger Belt Switch Circuit Status	Not Buckled	
DID \$31 Byte 23 bits 7-6	\$F0	Driver Seat Position Status (If Equipped)	Data Not Available	

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 23 bits 5-4	\$F0	Passenger Seat Position Status (If Equipped)	Data Not Available	
DID \$31 Byte 24 bits 7-5	\$00	Passenger Seat Occupancy Status	Empty	
DID \$31 Byte 25 bits 7-4	\$00	Passenger Classification Status	Not Applicable	
DID \$31 Byte 26 bits 7-6	\$C0	Passenger SIR Suppression Switch Circuit Status (If Equipped)	Data Not Available	
DID \$31 Byte 27 bits 7-6	\$10	Passenger Air Bag ON Indicator Status	Off	
DID \$31 Byte 27 bits 5-4	\$10	Passenger Air Bag OFF Indicator Status	On	
DID \$31 Byte 28	\$00	Accelerator Pedal Position (-0.5 sec)	0	%
DID \$31 Byte 29	\$00	Accelerator Pedal Position (-1.0 sec)	0	%
DID \$31 Byte 30	\$00	Accelerator Pedal Position (-1.5 sec)	0	%
DID \$31 Byte 31	\$00	Accelerator Pedal Position (-2.0 sec)	0	%
DID \$31 Byte 32	\$00	Accelerator Pedal Position (-2.5 sec)	0	%
DID \$31 Byte 33 bits 7-6	\$50	Brake Switch Circuit State (-0.5 sec)	On	
DID \$31 Byte 33 bits 5-4	\$50	Brake Switch Circuit State (-1.0 sec)	On	
DID \$31 Byte 33 bits 3-2	\$50	Brake Switch Circuit State (-1.5 sec)	Off	
DID \$31 Byte 33 bits 1-0	\$50	Brake Switch Circuit State (-2.0 sec)	Off	
DID \$31 Byte 34 bits 7-6	\$00	Brake Switch Circuit State (-2.5 sec)	Off	
DID \$31 Byte 35 bits 7-6	\$00	Cruise Control Active (-0.5 sec) If Equipped	No	
DID \$31 Byte 35 bits 5-4	\$00	Cruise Control Active (-1.0 sec) If Equipped	No	
DID \$31 Byte 35 bits 3-2	\$00	Cruise Control Resume Switch Active (-0.5 sec) If Equipped	No	
DID \$31 Byte 35 bits 1-0	\$00	Cruise Control Resume Switch Active (-1.0 sec) If Equipped	No	
DID \$31 Byte 36 bits 7-6	\$00	Cruise Control Set Switch Active (-0.5 sec) If Equipped	No	
DID \$31 Byte 36 bits 5-4	\$00	Cruise Control Set Switch Active (-1.0 sec) If Equipped	No	
DID \$31 Byte 37	\$18	Engine Speed (-0.5 sec)	1536	RPM
DID \$31 Byte 38	\$18	Engine Speed (-1.0 sec)	1536	RPM
DID \$31 Byte 39	\$17	Engine Speed (-1.5 sec)	1472	RPM
DID \$31 Byte 40	\$17	Engine Speed (-2.0 sec)	1472	RPM
DID \$31 Byte 41	\$17	Engine Speed (-2.5 sec)	1472	RPM
DID \$31 Bytes 42,43 (12 bits)	\$069C	Engine Torque (-0.5 sec)	-1 [-2]	Foot-pounds [Newton meters]
DID \$31 Bytes 44,45 (12 bits)	\$0713	Engine Torque (-1.0 sec)	42 [ 58]	Foot-pounds [Newton meters]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 46	\$11	Throttle Position (-0.5 sec)	17	% full throttle
DID \$31 Byte 47	\$22	Throttle Position (-1.0 sec)	34	% full throttle
DID \$31 Byte 48	\$55	Throttle Position (-1.5 sec)	85	% full throttle
DID \$31 Byte 49	\$55	Throttle Position (-2.0 sec)	85	% full throttle
DID \$31 Byte 50	\$55	Throttle Position (-2.5 sec)	85	% full throttle
DID \$31 Byte 51	\$39	Vehicle Speed (-0.5 sec)	35 [ 57]	MPH [km/h]
DID \$31 Byte 52	\$4C	Vehicle Speed (-1.0 sec)	47 [ 76]	MPH [km/h]
DID \$31 Byte 53	\$51	Vehicle Speed (-1.5 sec)	50 [ 81]	MPH [km/h]
DID \$31 Byte 54	\$51	Vehicle Speed (-2.0 sec)	50 [ 81]	MPH [km/h]
DID \$31 Byte 55	\$52	Vehicle Speed (-2.5 sec)	51 [ 82]	MPH [km/h]
DID \$31 Byte 56 bits 7-6	\$00	Reduced Engine Power Mode indicator (at algorithm enable)	Off	
DID \$31 Byte 56 bits 5-4	\$00	Reduced Engine Power Mode indicator (0.5 seconds before algorithm enable)	Off	
DID \$31 Byte 56 bits 3-2	\$00	Low Tire Pressure Warning Lamp	Off	
DID \$31 Byte 56 bits 1-0	\$00	SIR Warning Lamp Status	Off	
DID \$31 Bytes 57-58	\$FFFD	SIR Warning Lamp ON/OFF Time Continuously	655330	seconds
DID \$31 Bytes 59-60	\$04F4	Number of Ignition Cycles SIR Warning Lamp was ON/OFF Continuously	1268	
DID \$31 Byte 61	\$FD	Ignition Cycles Since DTCs Were Last Cleared at Event	253	
DID \$31 Bytes 62-63	\$0000	DTC number	N/A	
DID \$31 Byte 64	\$00	DTC fault type	N/A	
DID \$31 Bytes 65-66	\$0000	DTC number	N/A	
DID \$31 Byte 67	\$00	DTC fault type	N/A	
DID \$31 Bytes 68-69	\$0000	DTC number	N/A	
DID \$31 Byte 70	\$00	DTC fault type	N/A	
DID \$31 Bytes 71-72	\$0000	DTC number	N/A	
DPID \$55 Byte 73	\$00	DTC fault type	N/A	

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Bytes 74-75	\$0000	DTC number	N/A	
DID \$31 Byte 76	\$00	DTC fault type	N/A	
DID \$31 Bytes 77-78	\$0000	DTC number	N/A	
DID \$31 Byte 79	\$00	DTC fault type	N/A	
DID \$31 Bytes 80-81	\$0000	DTC number	N/A	
DID \$31 Byte 82	\$00	DTC fault type	N/A	
DID \$31 Bytes 83-84	\$0000	DTC number	N/A	
DID \$31 Byte 85	\$00	DTC fault type	N/A	
DID \$31 Bytes 86-87	\$8052	DTC number	B0052	
DID \$31 Byte 88	\$00	DTC fault type	\$00	
DID \$31 Byte 89	\$0B	Time From Algorithm Enable to Maximum SDM Recorded Vehicle Velocity Change	110	msec
DID \$31 Byte 90	\$53	Longitudinal SDM Recorded Vehicle Velocity Change at time of Maximum SDM Recorded Vehicle Velocity Change	-27 [-44]	MPH [km/h]
DID \$31 Byte 91	\$71	Lateral SDM Recorded Vehicle Velocity Change at time of Maximum SDM Recorded Vehicle Velocity Change	-9 [-14]	MPH [km/h]
DID \$31 Byte 92	\$08	Driver 1st Stage Time From Algorithm Enable to Deployment Command Criteria Met	24	msec
DID \$31 Byte 93	\$0A	Driver 2nd Stage Time From Algorithm Enable to Deployment Command Criteria Met	30	msec
DID \$31 Byte 94	\$FF	Passenger 1st Stage Time From Algorithm Enable to Deployment Command Criteria Met	Data Not Available	msec
DID \$31 Byte 95	\$FF	Passenger 2nd Stage Time From Algorithm Enable to Deployment Command Criteria Met	Data Not Available	msec
DID \$31 Byte 96	\$0A	Driver Thorax/Curtain Time From Algorithm Enable to Deployment Command Criteria Met	30	msec
DID \$31 Byte 97	\$0A	Passenger Thorax/Curtain Time From Algorithm Enable to Deployment Command Criteria Met	30	msec
DID \$31 Byte 98	\$01	Driver Pretensioner Time From Algorithm Enable to Deployment Loop #1 or Loop #2 Command Criteria Met	3	msec
DID \$31 Byte 99	\$01	Passenger Pretensioner Time From Algorithm Enable to Deployment Loop #1 or Loop #2 Command Criteria Met	3	msec
DID \$31 Byte 100	\$7F	SDM Recorded Vehicle Longitudinal Velocity Change (10 ms after event enable or 70 ms before deployment)	0 [0]	MPH [km/h]
DID \$31 Byte 101	\$7F	SDM Recorded Vehicle Lateral Velocity Change (10 ms after event enable or 70 ms before deployment)	0 [0]	MPH [km/h]



Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 102	\$7F	SDM Recorded Vehicle Longitudinal Velocity Change (20 ms after event enable or 60 ms before deployment)	0 [0]	MPH [km/h]
DID \$31 Byte 103	\$7F	SDM Recorded Vehicle Lateral Velocity Change (20 ms after event enable or 60 ms before deployment)	0 [0]	MPH [km/h]
DID \$31 Byte 104	\$7F	SDM Recorded Vehicle Longitudinal Velocity Change (30 ms after event enable or 50 ms before deployment)	0 [0]	MPH [km/h]
DID \$31 Byte 105	\$7F	SDM Recorded Vehicle Lateral Velocity Change (30 ms after event enable or 50 ms before deployment)	0 [0]	MPH [km/h]
DID \$31 Byte 106	\$7F	SDM Recorded Vehicle Longitudinal Velocity Change (40 ms after event enable or 40 ms before deployment)	0 [0]	MPH [km/h]
DID \$31 Byte 107	\$7F	SDM Recorded Vehicle Lateral Velocity Change (40 ms after event enable or 40 ms before deployment)	0 [0]	MPH [km/h]
DID \$31 Byte 108	\$7F	SDM Recorded Vehicle Longitudinal Velocity Change (50 ms after event enable or 30 ms before deployment)	0 [0]	MPH [km/h]
DID \$31 Byte 109	\$7F	SDM Recorded Vehicle Lateral Velocity Change (50 ms after event enable or 30 ms before deployment)	0 [0]	MPH [km/h]
DID \$31 Byte 110	\$7D	SDM Recorded Vehicle Longitudinal Velocity Change (60 ms after event enable or 20 ms before deployment)	-1.2 [-2]	MPH [km/h]
DID \$31 Byte 111	\$7F	SDM Recorded Vehicle Lateral Velocity Change (60 ms after event enable or 20 ms before deployment)	0 [0]	MPH [km/h]
DID \$31 Byte 112	\$7A	SDM Recorded Vehicle Longitudinal Velocity Change 1 (70 ms after event enable or 10 ms before deployment)	-3.1 [-5]	MPH [km/h]
DID \$31 Byte 113	\$7F	SDM Recorded Vehicle Lateral Velocity Change (70 ms after event enable or 10 ms before deployment)	0 [0]	MPH [km/h]
DID \$31 Byte 114	\$74	SDM Recorded Vehicle Longitudinal Velocity Change (80 ms after event enable or at deployment)	-6.8 [-11]	MPH [km/h]
DID \$31 Byte 115	\$7D	SDM Recorded Vehicle Lateral Velocity Change (80 ms after event enable or at deployment)	-1.2 [-2]	MPH [km/h]
DID \$31 Byte 116	\$6F	SDM Recorded Vehicle Longitudinal Velocity Change (90 ms after event enable or 10 ms after deployment)	-9.9 [-16]	MPH [km/h]
DID \$31 Byte 117	\$7B	SDM Recorded Vehicle Lateral Velocity Change (90 ms after event enable or 10 ms after deployment)	-2.5 [-4]	MPH [km/h]
DID \$31 Byte 118	\$66	SDM Recorded Vehicle Longitudinal Velocity Change (100 ms after event enable or 20 ms after deployment)	-15.5 [-25]	MPH [km/h]
DID \$31 Byte 119	\$76	SDM Recorded Vehicle Lateral Velocity Change (100 ms after event enable or 20 ms after deployment)	-5.6 [-9]	MPH [km/h]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 120	\$5D	SDM Recorded Vehicle Longitudinal Velocity Change (110 ms after event enable or 30 ms after deployment)	-21.1 [-34]	MPH [km/h]
DID \$31 Byte 121	\$74	SDM Recorded Vehicle Lateral Velocity Change (110 ms after event enable or 30 ms after deployment)	-6.8 [-11]	MPH [km/h]
DID \$31 Byte 122	\$59	SDM Recorded Vehicle Longitudinal Velocity Change (120 ms after event enable or 40 ms after deployment)	-23.6 [-38]	MPH [km/h]
DID \$31 Byte 123	\$72	SDM Recorded Vehicle Lateral Velocity Change (120 ms after event enable or 40 ms after deployment)	-8.1 [-13]	MPH [km/h]
DID \$31 Byte 124	\$56	SDM Recorded Vehicle Longitudinal Velocity Change (130 ms after event enable or 50 ms after deployment)	-25.5 [-41]	MPH [km/h]
DID \$31 Byte 125	\$71	SDM Recorded Vehicle Lateral Velocity Change (130 ms after event enable or 50 ms after deployment)	-8.7 [-14]	MPH [km/h]
DID \$31 Byte 126	\$54	SDM Recorded Vehicle Longitudinal Velocity Change (140 ms after event enable or 60 ms after deployment)	-26.7 [-43]	MPH [km/h]
DID \$31 Byte 127	\$71	SDM Recorded Vehicle Lateral Velocity Change (140 ms after event enable or 60 ms after deployment)	-8.7 [-14]	MPH [km/h]
DID \$31 Byte 128	\$53	SDM Recorded Vehicle Longitudinal Velocity Change (150 ms after event enable or 70 ms after deployment)	-27.3 [-44]	MPH [km/h]
DID \$31 Byte 129	\$70	SDM Recorded Vehicle Lateral Velocity Change (150 ms after event enable or 70 ms after deployment)	-9.3 [-15]	MPH [km/h]
DID \$31 Byte 130	\$53	SDM Recorded Vehicle Longitudinal Velocity Change (160 ms after event enable or 80 ms after deployment)	-27.3 [-44]	MPH [km/h]
DID \$31 Byte 131	\$71	SDM Recorded Vehicle Lateral Velocity Change (160 ms after event enable or 80 ms after deployment)	-8.7 [-14]	MPH [km/h]
DID \$31 Byte 132	\$53	SDM Recorded Vehicle Longitudinal Velocity Change (170 ms after event enable or 90 ms after deployment)	-27.3 [-44]	MPH [km/h]
DID \$31 Byte 133	\$71	SDM Recorded Vehicle Lateral Velocity Change (170 ms after event enable or 90 ms after deployment)	-8.7 [-14]	MPH [km/h]
DID \$31 Byte 134	\$53	SDM Recorded Vehicle Longitudinal Velocity Change (180 ms after event enable or 100 ms after deployment)	-27.3 [-44]	MPH [km/h]
DID \$31 Byte 135	\$71	SDM Recorded Vehicle Lateral Velocity Change (180 ms after event enable or 100 ms after deployment)	-8.7 [-14]	MPH [km/h]
DID \$31 Byte 136	\$54	SDM Recorded Vehicle Longitudinal Velocity Change (190 ms after event enable or 110 ms after deployment)	-26.7 [-43]	MPH [km/h]
DID \$31 Byte 137	\$72	SDM Recorded Vehicle Lateral Velocity Change (190 ms after event enable or 110 ms after deployment)	-8.1 [-13]	MPH [km/h]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 138	\$54	SDM Recorded Vehicle Longitudinal Velocity Change (200 ms after event enable or 120 ms after deployment)	-26.7 [-43]	MPH [km/h]
DID \$31 Byte 139	\$72	SDM Recorded Vehicle Lateral Velocity Change (200 ms after event enable or 120 ms after deployment)	-8.1 [-13]	MPH [km/h]
DID \$31 Byte 140	\$54	SDM Recorded Vehicle Longitudinal Velocity Change (210 ms after event enable or 130 ms after deployment)	-26.7 [-43]	MPH [km/h]
DID \$31 Byte 141	\$72	SDM Recorded Vehicle Lateral Velocity Change (210 ms after event enable or 130 ms after deployment)	-8.1 [-13]	MPH [km/h]
DID \$31 Byte 142	\$54	SDM Recorded Vehicle Longitudinal Velocity Change (220 ms after event enable or 140 ms after deployment)	-26.7 [-43]	MPH [km/h]
DID \$31 Byte 143	\$73	SDM Recorded Vehicle Lateral Velocity Change for Axis #2 (220 ms after event enable or 140 ms after deployment)	-7.5 [-12]	MPH [km/h]
DID \$31 Byte 144	\$55	SDM Recorded Vehicle Longitudinal Velocity Change (230 ms after event enable or 150 ms after deployment)	-26.1 [-42]	MPH [km/h]
DID \$31 Byte 145	\$73	SDM Recorded Vehicle Lateral Velocity Change (230 ms after event enable or 150 ms after deployment)	-7.5 [-12]	MPH [km/h]
DID \$31 Byte 146	\$55	SDM Recorded Vehicle Longitudinal Velocity Change (240 ms after event enable or 160 ms after deployment)	-26.1 [-42]	MPH [km/h]
DID \$31 Byte 147	\$73	SDM Recorded Vehicle Lateral Velocity Change (240 ms after event enable or 160 ms after deployment)	-7.5 [-12]	MPH [km/h]
DID \$31 Byte 148	\$55	SDM Recorded Vehicle Longitudinal Velocity Change (250 ms after event enable or 170 ms after deployment)	-26.1 [-42]	MPH [km/h]
DID \$31 Byte 149	\$73	SDM Recorded Vehicle Lateral Velocity Change (250 ms after event enable or 170 ms after deployment)	-7.5 [-12]	MPH [km/h]
DID \$31 Byte 150	\$55	SDM Recorded Vehicle Longitudinal Velocity Change (260 ms after event enable or 180 ms after deployment)	-26.1 [-42]	MPH [km/h]
DID \$31 Byte 151	\$73	SDM Recorded Vehicle Lateral Velocity Change (260 ms after event enable or 180 ms after deployment)	-7.5 [-12]	MPH [km/h]
DID \$31 Byte 152	\$55	SDM Recorded Vehicle Longitudinal Velocity Change (270 ms after event enable or 190 ms after deployment)	-26.1 [-42]	MPH [km/h]
DID \$31 Byte 153	\$73	SDM Recorded Vehicle Lateral Velocity Change (270 ms after event enable or 190 ms after deployment)	-7.5 [-12]	MPH [km/h]
DID \$31 Byte 154	\$55	SDM Recorded Vehicle Longitudinal Velocity Change (280 ms after event enable or 200 ms after deployment)	-26.1 [-42]	MPH [km/h]
DID \$31 Byte 155	\$73	SDM Recorded Vehicle Lateral Velocity Change (280 ms after event enable or 200 ms after deployment)	-7.5 [-12]	MPH [km/h]

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 156	\$55	SDM Recorded Vehicle Longitudinal Velocity Change (290 ms after event enable or 210 ms after deployment)	-26.1 [-42]	MPH [km/h]
DID \$31 Byte 157	\$73	SDM Recorded Vehicle Lateral Velocity Change (290 ms after event enable or 210 ms after deployment)	-7.5 [-12]	MPH [km/h]
DID \$31 Byte 158	\$55	SDM Recorded Vehicle Longitudinal Velocity Change (300 ms after event enable or 220 ms after deployment)	-26.1 [-42]	MPH [km/h]
DID \$31 Byte 159	\$73	SDM Recorded Vehicle Lateral Velocity Change (300 ms after event enable or 220 ms after deployment)	-7.5 [-12]	MPH [km/h]
DID \$31 Byte 160	\$7D	SDM Recorded Vehicle Lateral Acceleration (750 msec before event enable or 490 msec before deployment)	0.0	G
DID \$31 Byte 161	\$7D	SDM Recorded Vehicle Vertical Acceleration (750 msec before event enable or 490 msec before deployment)	0.0	G
DID \$31 Byte 162	\$7F	SDM Recorded Vehicle Roll Rate (750 msec before event enable or 490 msec before deployment)	0	deg/sec
DID \$31 Byte 163	\$7D	SDM Recorded Vehicle Lateral Acceleration (740 msec before event enable or 480 msec before deployment)	0.0	G
DID \$31 Byte 164	\$7D	SDM Recorded Vehicle Vertical Acceleration (740 msec before event enable or 480 msec before deployment)	0.0	G
DID \$31 Byte 165	\$7F	SDM Recorded Vehicle Roll Rate (740 msec before event enable or 480 msec before deployment)	0	deg/sec
DID \$31 Byte 166	\$7D	SDM Recorded Vehicle Lateral Acceleration (730 msec before event enable or 470 msec before deployment)	0.0	G
DID \$31 Byte 167	\$7D	SDM Recorded Vehicle Vertical Acceleration (730 msec before event enable or 470 msec before deployment)	0.0	G
DID \$31 Byte 168	\$7F	SDM Recorded Vehicle Roll Rate (730 msec before event enable or 470 msec before deployment)	0	deg/sec
DID \$31 Byte 169	\$7D	SDM Recorded Vehicle Lateral Acceleration (720 msec before event enable or 460 msec before deployment)	0.0	G
DID \$31 Byte 170	\$7D	SDM Recorded Vehicle Vertical Acceleration (720 msec before event enable or 460 msec before deployment)	0.0	G
DID \$31 Byte 171	\$7F	SDM Recorded Vehicle Roll Rate (720 msec before event enable or 460 msec before deployment)	0	deg/sec
DID \$31 Byte 172	\$7D	SDM Recorded Vehicle Lateral Acceleration (710 msec before event enable or 450 msec before deployment)	0.0	G
DID \$31 Byte 173	\$7D	SDM Recorded Vehicle Vertical Acceleration (710 msec before event enable or 450 msec before deployment)	0.0	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 174	\$7F	SDM Recorded Vehicle Roll Rate (710 msec before event enable or 450 msec before deployment)	0	deg/sec
DID \$31 Byte 175	\$7D	SDM Recorded Vehicle Lateral Acceleration (700 msec before event enable or 440 msec before deployment)	0.0	G
DID \$31 Byte 176	\$7D	SDM Recorded Vehicle Vertical Acceleration (700 msec before event enable or 440 msec before deployment)	0.0	G
DID \$31 Byte 177	\$7F	SDM Recorded Vehicle Roll Rate (700 msec before event enable or 440 msec before deployment)	0	deg/sec
DID \$31 Byte 178	\$7D	SDM Recorded Vehicle Lateral Acceleration (690 msec before event enable or 430 msec before deployment)	0.0	G
DID \$31 Byte 179	\$7D	SDM Recorded Vehicle Vertical Acceleration (690 msec before event enable or 430 msec before deployment)	0.0	G
DID \$31 Byte 180	\$7F	SDM Recorded Vehicle Roll Rate (690 msec before event enable or 430 msec before deployment)	0	deg/sec
DID \$31 Byte 181	\$7D	SDM Recorded Vehicle Lateral Acceleration (680 msec before event enable or 420 msec before deployment)	0.0	G
DID \$31 Byte 182	\$7D	SDM Recorded Vehicle Vertical Acceleration (680 msec before event enable or 420 msec before deployment)	0.0	G
DID \$31 Byte 183	\$7F	SDM Recorded Vehicle Roll Rate (680 msec before event enable or 420 msec before deployment)	0	deg/sec
DID \$31 Byte 184	\$7D	SDM Recorded Vehicle Lateral Acceleration (670 msec before event enable or 410 msec before deployment)	0.0	G
DID \$31 Byte 185	\$7D	SDM Recorded Vehicle Vertical Acceleration (670 msec before event enable or 410 msec before deployment)	0.0	G
DID \$31 Byte 186	\$7F	SDM Recorded Vehicle Roll Rate (670 msec before event enable or 410 msec before deployment)	0	deg/sec
DID \$31 Byte 187	\$7D	SDM Recorded Vehicle Lateral Acceleration (660 msec before event enable or 400 msec before deployment)	0.0	G
DID \$31 Byte 188	\$7D	SDM Recorded Vehicle Vertical Acceleration (660 msec before event enable or 400 msec before deployment)	0.0	G
DID \$31 Byte 189	\$7F	SDM Recorded Vehicle Roll Rate (660 msec before event enable or 400 msec before deployment)	0	deg/sec
DID \$31 Byte 190	\$7D	SDM Recorded Vehicle Lateral Acceleration (650 msec before event enable or 390 msec before deployment)	0.0	G
DID \$31 Byte 191	\$7D	SDM Recorded Vehicle Vertical Acceleration (650 msec before event enable or 390 msec before deployment)	0.0	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 192	\$7F	SDM Recorded Vehicle Roll Rate (650 msec before event enable or 390 msec before deployment)	0	deg/sec
DID \$31 Byte 193	\$7D	SDM Recorded Vehicle Lateral Acceleration (640 msec before event enable or 380 msec before deployment)	0.0	G
DID \$31 Byte 194	\$7D	SDM Recorded Vehicle Vertical Acceleration (640 msec before event enable or 380 msec before deployment)	0.0	G
DID \$31 Byte 195	\$7F	SDM Recorded Vehicle Roll Rate (640 msec before event enable or 380 msec before deployment)	0	deg/sec
DID \$31 Byte 196	\$7D	SDM Recorded Vehicle Lateral Acceleration (630 msec before event enable or 370 msec before deployment)	0.0	G
DID \$31 Byte 197	\$7D	SDM Recorded Vehicle Vertical Acceleration (630 msec before event enable or 370 msec before deployment)	0.0	G
DID \$31 Byte 198	\$7F	SDM Recorded Vehicle Roll Rate (630 msec before event enable or 370 msec before deployment)	0	deg/sec
DID \$31 Byte 199	\$7D	SDM Recorded Vehicle Lateral Acceleration (620 msec before event enable or 360 msec before deployment)	0.0	G
DID \$31 Byte 200	\$7D	SDM Recorded Vehicle Vertical Acceleration (620 msec before event enable or 360 msec before deployment)	0.0	G
DID \$31 Byte 201	\$7F	SDM Recorded Vehicle Roll Rate (620 msec before event enable or 360 msec before deployment)	0	deg/sec
DID \$31 Byte 202	\$7D	SDM Recorded Vehicle Lateral Acceleration (610 msec before event enable or 350 msec before deployment)	0.0	G
DID \$31 Byte 203	\$7D	SDM Recorded Vehicle Vertical Acceleration (610 msec before event enable or 350 msec before deployment)	0.0	G
DID \$31 Byte 204	\$7F	SDM Recorded Vehicle Roll Rate (610 msec before event enable or 350 msec before deployment)	0	deg/sec
DID \$31 Byte 205	\$7D	SDM Recorded Vehicle Lateral Acceleration (600 msec before event enable or 340 msec before deployment)	0.0	G
DID \$31 Byte 206	\$7D	SDM Recorded Vehicle Vertical Acceleration (600 msec before event enable or 340 msec before deployment)	0.0	G
DID \$31 Byte 207	\$7F	SDM Recorded Vehicle Roll Rate (600 msec before event enable or 340 msec before deployment)	0	deg/sec
DID \$31 Byte 208	\$7D	SDM Recorded Vehicle Lateral Acceleration (590 msec before event enable or 330 msec before deployment)	0.0	G
DID \$31 Byte 209	\$7D	SDM Recorded Vehicle Vertical Acceleration (590 msec before event enable or 330 msec before deployment)	0.0	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 210	\$7F	SDM Recorded Vehicle Roll Rate (590 msec before event enable or 320 msec before deployment)	0	deg/sec
DID \$31 Byte 211	\$7D	SDM Recorded Vehicle Lateral Acceleration (580 msec before event enable or 320 msec before deployment)	0.0	G
DID \$31 Byte 212	\$7D	SDM Recorded Vehicle Vertical Acceleration (580 msec before event enable or 320 msec before deployment)	0.0	G
DID \$31 Byte 213	\$7F	SDM Recorded Vehicle Roll Rate (580 msec before event enable or 310 msec before deployment)	0	deg/sec
DID \$31 Byte 214	\$7D	SDM Recorded Vehicle Lateral Acceleration (570 msec before event enable or 310 msec before deployment)	0.0	G
DID \$31 Byte 215	\$7D	SDM Recorded Vehicle Vertical Acceleration (570 msec before event enable or 310 msec before deployment)	0.0	G
DID \$31 Byte 216	\$7F	SDM Recorded Vehicle Roll Rate (570 msec before event enable or 310 msec before deployment)	0	deg/sec
DID \$31 Byte 217	\$7D	SDM Recorded Vehicle Lateral Acceleration (560 msec before event enable or 300 msec before deployment)	0.0	G
DID \$31 Byte 218	\$7D	SDM Recorded Vehicle Vertical Acceleration (560 msec before event enable or 300 msec before deployment)	0.0	G
DID \$31 Byte 219	\$7F	SDM Recorded Vehicle Roll Rate (560 msec before event enable or 300 msec before deployment)	0	deg/sec
DID \$31 Byte 220	\$7D	SDM Recorded Vehicle Lateral Acceleration (550 msec before event enable or 290 msec before deployment)	0.0	G
DID \$31 Byte 221	\$7D	SDM Recorded Vehicle Vertical Acceleration (550 msec before event enable or 290 msec before deployment)	0.0	G
DID \$31 Byte 222	\$7F	SDM Recorded Vehicle Roll Rate (550 msec before event enable or 290 msec before deployment)	0	deg/sec
DID \$31 Byte 223	\$7D	SDM Recorded Vehicle Lateral Acceleration (540 msec before event enable or 280 msec before deployment)	0.0	G
DID \$31 Byte 224	\$7D	SDM Recorded Vehicle Vertical Acceleration (540 msec before event enable or 280 msec before deployment)	0.0	G
DID \$31 Byte 225	\$7F	SDM Recorded Vehicle Roll Rate (540 msec before event enable or 280 msec before deployment)	0	deg/sec
DID \$31 Byte 226	\$7D	SDM Recorded Vehicle Lateral Acceleration (530 msec before event enable or 270 msec before deployment)	0.0	G
DID \$31 Byte 227	\$7D	SDM Recorded Vehicle Vertical Acceleration (530 msec before event enable or 270 msec before deployment)	0.0	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 228	\$7F	SDM Recorded Vehicle Roll Rate (530 msec before event enable or 270 msec before deployment)	0	deg/sec
DID \$31 Byte 229	\$7D	SDM Recorded Vehicle Lateral Acceleration (520 msec before event enable or 260 msec before deployment)	0.0	G
DID \$31 Byte 230	\$7D	SDM Recorded Vehicle Vertical Acceleration (520 msec before event enable or 260 msec before deployment)	0.0	G
DID \$31 Byte 231	\$7F	SDM Recorded Vehicle Roll Rate (520 msec before event enable or 260 msec before deployment)	0	deg/sec
DID \$31 Byte 232	\$7D	SDM Recorded Vehicle Lateral Acceleration (510 msec before event enable or 250 msec before deployment)	0.0	G
DID \$31 Byte 233	\$7D	SDM Recorded Vehicle Vertical Acceleration (510 msec before event enable or 250 msec before deployment)	0.0	G
DID \$31 Byte 234	\$7F	SDM Recorded Vehicle Roll Rate (510 msec before event enable or 250 msec before deployment)	0	deg/sec
DID \$31 Byte 235	\$7D	SDM Recorded Vehicle Lateral Acceleration (500 msec before event enable or 240 msec before deployment)	0.0	G
DID \$31 Byte 236	\$7D	SDM Recorded Vehicle Vertical Acceleration (500 msec before event enable or 240 msec before deployment)	0.0	G
DID \$31 Byte 237	\$7F	SDM Recorded Vehicle Roll Rate (500 msec before event enable or 240 msec before deployment)	0	deg/sec
DID \$31 Byte 238	\$7D	SDM Recorded Vehicle Lateral Acceleration (490 msec before event enable or 230 msec before deployment)	0.0	G
DID \$31 Byte 239	\$7D	SDM Recorded Vehicle Vertical Acceleration (490 msec before event enable or 230 msec before deployment)	0.0	G
DID \$31 Byte 240	\$7F	SDM Recorded Vehicle Roll Rate (490 msec before event enable or 230 msec before deployment)	0	deg/sec
DID \$31 Byte 241	\$7D	SDM Recorded Vehicle Lateral Acceleration (480 msec before event enable or 220 msec before deployment)	0.0	G
DID \$31 Byte 242	\$7D	SDM Recorded Vehicle Vertical Acceleration (480 msec before event enable or 220 msec before deployment)	0.0	G
DID \$31 Byte 243	\$7F	SDM Recorded Vehicle Roll Rate (480 msec before event enable or 220 msec before deployment)	0	deg/sec
DID \$31 Byte 244	\$7D	SDM Recorded Vehicle Lateral Acceleration (470 msec before event enable or 210 msec before deployment)	0.0	G
DID \$31 Byte 245	\$7D	SDM Recorded Vehicle Vertical Acceleration (470 msec before event enable or 210 msec before deployment)	0.0	G



Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 246	\$7F	SDM Recorded Vehicle Roll Rate (470 msec before event enable or 210 msec before deployment)	0	deg/sec
DID \$31 Byte 247	\$7D	SDM Recorded Vehicle Lateral Acceleration (460 msec before event enable or 200 msec before deployment)	0.0	G
DID \$31 Byte 248	\$7D	SDM Recorded Vehicle Vertical Acceleration (460 msec before event enable or 200 msec before deployment)	0.0	G
DID \$31 Byte 249	\$7F	SDM Recorded Vehicle Roll Rate (460 msec before event enable or 200 msec before deployment)	0	deg/sec
DID \$31 Byte 250	\$7D	SDM Recorded Vehicle Lateral Acceleration (450 msec before event enable or 190 msec before deployment)	0.0	G
DID \$31 Byte 251	\$7D	SDM Recorded Vehicle Vertical Acceleration (450 msec before event enable or 190 msec before deployment)	0.0	G
DID \$31 Byte 252	\$7F	SDM Recorded Vehicle Roll Rate (450 msec before event enable or 190 msec before deployment)	0	deg/sec
DID \$31 Byte 253	\$7D	SDM Recorded Vehicle Lateral Acceleration (440 msec before event enable or 180 msec before deployment)	0.0	G
DID \$31 Byte 254	\$7D	SDM Recorded Vehicle Vertical Acceleration (440 msec before event enable or 180 msec before deployment)	0.0	G
DID \$31 Byte 255	\$7F	SDM Recorded Vehicle Roll Rate (440 msec before event enable or 180 msec before deployment)	0	deg/sec
DID \$31 Byte 256	\$7D	SDM Recorded Vehicle Lateral Acceleration (430 msec before event enable or 170 msec before deployment)	0.0	G
DID \$31 Byte 257	\$7D	SDM Recorded Vehicle Vertical Acceleration (430 msec before event enable or 170 msec before deployment)	0.0	G
DID \$31 Byte 258	\$7F	SDM Recorded Vehicle Roll Rate(430 msec before event enable or 170 msec before deployment)	0	deg/sec
DID \$31 Byte 259	\$7D	SDM Recorded Vehicle Lateral Acceleration (420 msec before event enable or 160 msec before deployment)	0.0	G
DID \$31 Byte 260	\$7D	SDM Recorded Vehicle Vertical Acceleration (420 msec before event enable or 160 msec before deployment)	0.0	G
DID \$31 Byte 261	\$7F	SDM Recorded Vehicle Roll Rate (420 msec before event enable or 160 msec before deployment)	0	deg/sec
DID \$31 Byte 262	\$7D	SDM Recorded Vehicle Lateral Acceleration (410 msec before event enable or 150 msec before deployment)	0.0	G
DID \$31 Byte 263	\$7D	SDM Recorded Vehicle Vertical Acceleration (410 msec before event enable or 150 msec before deployment)	0.0	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 264	\$7F	SDM Recorded Vehicle Roll Rate (410 msec before event enable or 150 msec before deployment)	0	deg/sec
DID \$31 Byte 265	\$7D	SDM Recorded Vehicle Lateral Acceleration (400 msec before event enable or 140 msec before deployment)	0.0	G
DID \$31 Byte 266	\$7D	SDM Recorded Vehicle Vertical Acceleration (400 msec before event enable or 140 msec before deployment)	0.0	G
DID \$31 Byte 267	\$7F	SDM Recorded Vehicle Roll Rate (400 msec before event enable or 140 msec before deployment)	0	deg/sec
DID \$31 Byte 268	\$7D	SDM Recorded Vehicle Lateral Acceleration (390 msec before event enable or 130 msec before deployment)	0.0	G
DID \$31 Byte 269	\$7D	SDM Recorded Vehicle Vertical Acceleration (390 msec before event enable or 130 msec before deployment)	0.0	G
DID \$31 Byte 270	\$7F	SDM Recorded Vehicle Roll Rate (390 msec before event enable or 130 msec before deployment)	0	deg/sec
DID \$31 Byte 271	\$7D	SDM Recorded Vehicle Lateral Acceleration (380 msec before event enable or 120 msec before deployment)	0.0	G
DID \$31 Byte 272	\$7D	SDM Recorded Vehicle Vertical Acceleration (380 msec before event enable or 120 msec before deployment)	0.0	G
DID \$31 Byte 273	\$7F	SDM Recorded Vehicle Roll Rate (380 msec before event enable or 120 msec before deployment)	0	deg/sec
DID \$31 Byte 274	\$7D	SDM Recorded Vehicle Lateral Acceleration (370 msec before event enable or 110 msec before deployment)	0.0	G
DID \$31 Byte 275	\$7D	SDM Recorded Vehicle Vertical Acceleration (370 msec before event enable or 110 msec before deployment)	0.0	G
DID \$31 Byte 276	\$7F	SDM Recorded Vehicle Roll Rate (370 msec before event enable or 110 msec before deployment)	0	deg/sec
DID \$31 Byte 277	\$7D	SDM Recorded Vehicle Lateral Acceleration (360 msec before event enable or 100 msec before deployment)	0.0	G
DID \$31 Byte 278	\$7D	SDM Recorded Vehicle Vertical Acceleration (360 msec before event enable or 100 msec before deployment)	0.0	G
DID \$31 Byte 279	\$7F	SDM Recorded Vehicle Roll Rate (360 msec before event enable or 100 msec before deployment)	0	deg/sec
DID \$31 Byte 280	\$7D	SDM Recorded Vehicle Lateral Acceleration (350 msec before event enable or 90 msec before deployment)	0.0	G
DID \$31 Byte 281	\$7D	SDM Recorded Vehicle Vertical Acceleration (350 msec before event enable or 90 msec before deployment)	0.0	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 282	\$7F	SDM Recorded Vehicle Roll Rate (350 msec before event enable or 90 msec before deployment)	0	deg/sec
DID \$31 Byte 283	\$7D	SDM Recorded Vehicle Lateral Acceleration (340 msec before event enable or 80 msec before deployment)	0.0	G
DID \$31 Byte 284	\$7D	SDM Recorded Vehicle Vertical Acceleration (340 msec before event enable or 80 msec before deployment)	0.0	G
DID \$31 Byte 285	\$7F	SDM Recorded Vehicle Roll Rate (340 msec before event enable or 80 msec before deployment)	0	deg/sec
DID \$31 Byte 286	\$7D	SDM Recorded Vehicle Lateral Acceleration (330 msec before event enable or 70 msec before deployment)	0.0	G
DID \$31 Byte 287	\$7D	SDM Recorded Vehicle Vertical Acceleration (330 msec before event enable or 70 msec before deployment)	0.0	G
DID \$31 Byte 288	\$7F	SDM Recorded Vehicle Roll Rate (330 msec before event enable or 70 msec before deployment)	0	deg/sec
DID \$31 Byte 289	\$7D	SDM Recorded Vehicle Lateral Acceleration (320 msec before event enable or 60 msec before deployment)	0.0	G
DID \$31 Byte 290	\$7D	SDM Recorded Vehicle Vertical Acceleration (320 msec before event enable or 60 msec before deployment)	0.0	G
DID \$31 Byte 291	\$7F	SDM Recorded Vehicle Roll Rate (320 msec before event enable or 60 msec before deployment)	0	deg/sec
DID \$31 Byte 292	\$7D	SDM Recorded Vehicle Lateral Acceleration (310 msec before event enable or 50 msec before deployment)	0.0	G
DID \$31 Byte 293	\$7D	SDM Recorded Vehicle Vertical Acceleration (310 msec before event enable or 50 msec before deployment)	0.0	G
DID \$31 Byte 294	\$7F	SDM Recorded Vehicle Roll Rate (310 msec before event enable or 50 msec before deployment)	0	deg/sec
DID \$31 Byte 295	\$7D	SDM Recorded Vehicle Lateral Acceleration (300 msec before event enable or 40 msec before deployment)	0.0	G
DID \$31 Byte 296	\$7D	SDM Recorded Vehicle Vertical Acceleration (300 msec before event enable or 40 msec before deployment)	0.0	G
DID \$31 Byte 297	\$7F	SDM Recorded Vehicle Roll Rate (300 msec before event enable or 40 msec before deployment)	0	deg/sec
DID \$31 Byte 298	\$7D	SDM Recorded Vehicle Lateral Acceleration (290 msec before event enable or 30 msec before deployment)	0.0	G
DID \$31 Byte 299	\$7D	SDM Recorded Vehicle Vertical Acceleration (290 msec before event enable or 30 msec before deployment)	0.0	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 300	\$7F	SDM Recorded Vehicle Roll Rate (290 msec before event enable or 30 msec before deployment)	0	deg/sec
DID \$31 Byte 301	\$7D	SDM Recorded Vehicle Lateral Acceleration (280 msec before event enable or 20 msec before deployment)	0.0	G
DID \$31 Byte 302	\$7D	SDM Recorded Vehicle Vertical Acceleration (280 msec before event enable or 20 msec before deployment)	0.0	G
DID \$31 Byte 303	\$7F	SDM Recorded Vehicle Roll Rate (280 msec before event enable or 20 msec before deployment)	0	deg/sec
DID \$31 Byte 304	\$7D	SDM Recorded Vehicle Lateral Acceleration (270 msec before event enable or 10 msec before deployment)	0.0	G
DID \$31 Byte 305	\$7D	SDM Recorded Vehicle Vertical Acceleration (270 msec before event enable or 10 msec before deployment)	0.0	G
DID \$31 Byte 306	\$7F	SDM Recorded Vehicle Roll Rate (270 msec before event enable or 10 msec before deployment)	0	deg/sec
DID \$31 Byte 307	\$7D	SDM Recorded Vehicle Lateral Acceleration (260 msec before event enable or at deployment)	0.0	G
DID \$31 Byte 308	\$7D	SDM Recorded Vehicle Vertical Acceleration (260 msec before event enable or at deployment)	0.0	G
DID \$31 Byte 309	\$7F	SDM Recorded Vehicle Roll Rate (260 msec before event enable or at deployment)	0	deg/sec
DID \$31 Byte 310	\$7D	SDM Recorded Vehicle Lateral Acceleration (250 msec before event enable or 10 msec after deployment)	0.0	G
DID \$31 Byte 311	\$7D	SDM Recorded Vehicle Vertical Acceleration (250 msec before event enable or 10 msec after deployment)	0.0	G
DID \$31 Byte 312	\$7F	SDM Recorded Vehicle Roll Rate (250 msec before event enable or 10 msec after deployment)	0	deg/sec
DID \$31 Byte 313	\$7D	SDM Recorded Vehicle Lateral Acceleration (240 msec before event enable or 20 msec after deployment)	0.0	G
DID \$31 Byte 314	\$7D	SDM Recorded Vehicle Vertical Acceleration (240 msec before event enable or 20 msec after deployment)	0.0	G
DID \$31 Byte 315	\$7F	SDM Recorded Vehicle Roll Rate (240 msec before event enable or 20 msec after deployment)	0	deg/sec
DID \$31 Byte 316	\$7D	SDM Recorded Vehicle Lateral Acceleration (230 msec before event enable or 30 msec after deployment)	0.0	G
DID \$31 Byte 317	\$7D	SDM Recorded Vehicle Vertical Acceleration (230 msec before event enable or 30 msec after deployment)	0.0	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 318	\$7F	SDM Recorded Vehicle Roll Rate (230 msec before event enable or 30 msec after deployment)	0	deg/sec
DID \$31 Byte 319	\$7D	SDM Recorded Vehicle Lateral Acceleration (220 msec before event enable or 40 msec after deployment)	0.0	G
DID \$31 Byte 320	\$7D	SDM Recorded Vehicle Vertical Acceleration (220 msec before event enable or 40 msec after deployment)	0.0	G
DID \$31 Byte 321	\$7F	SDM Recorded Vehicle Roll Rate (220 msec before event enable or 40 msec after deployment)	0	deg/sec
DID \$31 Byte 322	\$7D	SDM Recorded Vehicle Lateral Acceleration (210 msec before event enable or 50 msec after deployment)	0.0	G
DID \$31 Byte 323	\$7D	SDM Recorded Vehicle Vertical Acceleration (210 msec before event enable or 50 msec after deployment)	0.0	G
DID \$31 Byte 324	\$7F	SDM Recorded Vehicle Roll Rate (210 msec before event enable or 50 msec after deployment)	0	deg/sec
DID \$31 Byte 325	\$7D	SDM Recorded Vehicle Lateral Acceleration (200 msec before event enable or 60 msec after deployment)	0.0	G
DID \$31 Byte 326	\$7D	SDM Recorded Vehicle Vertical Acceleration (200 msec before event enable or 60 msec after deployment)	0.0	G
DID \$31 Byte 327	\$7F	SDM Recorded Vehicle Roll Rate (200 msec before event enable or 60 msec after deployment)	0	deg/sec
DID \$31 Byte 328	\$7D	SDM Recorded Vehicle Lateral Acceleration (190 msec before event enable or 70 msec after deployment)	0.0	G
DID \$31 Byte 329	\$7D	SDM Recorded Vehicle Vertical Acceleration (190 msec before event enable or 70 msec after deployment)	0.0	G
DID \$31 Byte 330	\$7F	SDM Recorded Vehicle Roll Rate (190 msec before event enable or 70 msec after deployment)	0	deg/sec
DID \$31 Byte 331	\$7D	SDM Recorded Vehicle Lateral Acceleration (180 msec before event enable or 80 msec after deployment)	0.0	G
DID \$31 Byte 332	\$7D	SDM Recorded Vehicle Vertical Acceleration (180 msec before event enable or 80 msec after deployment)	0.0	G
DID \$31 Byte 333	\$7F	SDM Recorded Vehicle Roll Rate (180 msec before event enable or 80 msec after deployment)	0	deg/sec
DID \$31 Byte 334	\$7D	SDM Recorded Vehicle Lateral Acceleration (170 msec before event enable or 90 msec after deployment)	0.0	G
DID \$31 Byte 335	\$7D	SDM Recorded Vehicle Vertical Acceleration (170 msec before event enable or 90 msec after deployment)	0.0	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 336	\$7F	SDM Recorded Vehicle Roll Rate (170 msec before event enable or 90 msec after deployment)	0	deg/sec
DID \$31 Byte 337	\$7D	SDM Recorded Vehicle Lateral Acceleration (160 msec before event enable or 100 msec after deployment)	0.0	G
DID \$31 Byte 338	\$7D	SDM Recorded Vehicle Vertical Acceleration (160 msec before event enable or 100 msec after deployment)	0.0	G
DID \$31 Byte 339	\$7F	SDM Recorded Vehicle Roll Rate (160 msec before event enable or 100 msec after deployment)	0	deg/sec
DID \$31 Byte 340	\$7D	SDM Recorded Vehicle Lateral Acceleration (150 msec before event enable or 110 msec after deployment)	0.0	G
DID \$31 Byte 341	\$7D	SDM Recorded Vehicle Vertical Acceleration (150 msec before event enable or 110 msec after deployment)	0.0	G
DID \$31 Byte 342	\$7F	SDM Recorded Vehicle Roll Rate (150 msec before event enable or 110 msec after deployment)	0	deg/sec
DID \$31 Byte 343	\$7D	SDM Recorded Vehicle Lateral Acceleration (140 msec before event enable or 120 msec after deployment)	0.0	G
DID \$31 Byte 344	\$7D	SDM Recorded Vehicle Vertical Acceleration (140 msec before event enable or 120 msec after deployment)	0.0	G
DID \$31 Byte 345	\$7F	SDM Recorded Vehicle Roll Rate (140 msec before event enable or 120 msec after deployment)	0	deg/sec
DID \$31 Byte 346	\$7D	SDM Recorded Vehicle Lateral Acceleration (130 msec before event enable or 130 msec after deployment)	0.0	G
DID \$31 Byte 347	\$7D	SDM Recorded Vehicle Vertical Acceleration (130 msec before event enable or 130 msec after deployment)	0.0	G
DID \$31 Byte 348	\$7F	SDM Recorded Vehicle Roll Rate (130 msec before event enable or 130 msec after deployment)	0	deg/sec
DID \$31 Byte 349	\$7D	SDM Recorded Vehicle Lateral Acceleration (120 msec before event enable or 140 msec after deployment)	0.0	G
DID \$31 Byte 350	\$7D	SDM Recorded Vehicle Vertical Acceleration (120 msec before event enable or 140 msec after deployment)	0.0	G
DID \$31 Byte 351	\$7F	SDM Recorded Vehicle Roll Rate (120 msec before event enable or 140 msec after deployment)	0	deg/sec
DID \$31 Byte 352	\$7D	SDM Recorded Vehicle Lateral Acceleration (110 msec before event enable or 150 msec after deployment)	0.0	G
DID \$31 Byte 353	\$7D	SDM Recorded Vehicle Vertical Acceleration (110 msec before event enable or 150 msec after deployment)	0.0	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 354	\$7F	SDM Recorded Vehicle Roll Rate (110 msec before event enable or 150 msec after deployment)	0	deg/sec
DID \$31 Byte 355	\$7D	SDM Recorded Vehicle Lateral Acceleration (100 msec before event enable or 160 msec after deployment)	0.0	G
DID \$31 Byte 356	\$7D	SDM Recorded Vehicle Vertical Acceleration (100 msec before event enable or 160 msec after deployment)	0.0	G
DID \$31 Byte 357	\$7F	SDM Recorded Vehicle Roll Rate (100 msec before event enable or 160 msec after deployment)	0	deg/sec
DID \$31 Byte 358	\$7D	SDM Recorded Vehicle Lateral Acceleration (90 msec before event enable or 170 msec after deployment)	0.0	G
DID \$31 Byte 359	\$7D	SDM Recorded Vehicle Vertical Acceleration (90 msec before event enable or 170 msec after deployment)	0.0	G
DID \$31 Byte 360	\$7F	SDM Recorded Vehicle Roll Rate (90 msec before event enable or 170 msec after deployment)	0	deg/sec
DID \$31 Byte 361	\$7D	SDM Recorded Vehicle Lateral Acceleration (80 msec before event enable or 180 msec after deployment)	0.0	G
DID \$31 Byte 362	\$7D	SDM Recorded Vehicle Vertical Acceleration (80 msec before event enable or 180 msec after deployment)	0.0	G
DID \$31 Byte 363	\$7F	SDM Recorded Vehicle Roll Rate (80 msec before event enable or 180 msec after deployment)	0	deg/sec
DID \$31 Byte 364	\$7D	SDM Recorded Vehicle Lateral Acceleration (70 msec before event enable or 190 msec after deployment)	0.0	G
DID \$31 Byte 365	\$7D	SDM Recorded Vehicle Vertical Acceleration (70 msec before event enable or 190 msec after deployment)	0.0	G
DID \$31 Byte 366	\$7F	SDM Recorded Vehicle Roll Rate (70 msec before event enable or 190 msec after deployment)	0	deg/sec
DID \$31 Byte 367	\$7D	SDM Recorded Vehicle Lateral Acceleration (60 msec before event enable or 200 msec after deployment)	0.0	G
DID \$31 Byte 368	\$7D	SDM Recorded Vehicle Vertical Acceleration (60 msec before event enable or 200 msec after deployment)	0.0	G
DID \$31 Byte 369	\$7F	SDM Recorded Vehicle Roll Rate (60 msec before event enable or 200 msec after deployment)	0	deg/sec
DID \$31 Byte 370	\$7D	SDM Recorded Vehicle Lateral Acceleration (50 msec before event enable or 210 msec after deployment)	0.0	G
DID \$31 Byte 371	\$7D	SDM Recorded Vehicle Vertical Acceleration (50 msec before event enable or 210 msec after deployment)	0.0	G

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$31 Byte 372	\$7F	SDM Recorded Vehicle Roll Rate (50 msec before event enable or 210 msec after deployment)	0	deg/sec
DID \$31 Byte 373	\$7D	SDM Recorded Vehicle Lateral Acceleration (40 msec before event enable or 230 msec after deployment)	0.0	G
DID \$31 Byte 374	\$7D	SDM Recorded Vehicle Vertical Acceleration (40 msec before event enable or 230 msec after deployment)	0.0	G
DID \$31 Byte 375	\$7F	SDM Recorded Vehicle Roll Rate (40 msec before event enable or 230 msec after deployment)	0	deg/sec
DID \$31 Byte 376	\$7D	SDM Recorded Vehicle Lateral Acceleration (30 msec before event enable or 230 msec after deployment)	0.0	G
DID \$31 Byte 377	\$7D	SDM Recorded Vehicle Vertical Acceleration (30 msec before event enable or 230 msec after deployment)	0.0	G
DID \$31 Byte 378	\$7F	SDM Recorded Vehicle Roll Rate (30 msec before event enable or 230 msec after deployment)	0	deg/sec
DID \$31 Byte 379	\$7D	SDM Recorded Vehicle Lateral Acceleration (20 msec before event enable or 240 msec after deployment)	0.0	G
DID \$31 Byte 380	\$7D	SDM Recorded Vehicle Vertical Acceleration (20 msec before event enable or 240 msec after deployment)	0.0	G
DID \$31 Byte 381	\$7F	SDM Recorded Vehicle Roll Rate (20 msec before event enable or 240 msec after deployment)	0	deg/sec
DID \$31 Byte 382	\$7D	SDM Recorded Vehicle Lateral Acceleration (10 msec before event enable or 250 msec after deployment)	0.0	G
DID \$31 Byte 383	\$7D	SDM Recorded Vehicle Vertical Acceleration (10 msec before event enable or 250 msec after deployment)	0.0	G
DID \$31 Byte 384	\$7F	SDM Recorded Vehicle Roll Rate (10 msec before event enable or 250 msec after deployment)	0	deg/sec
DID \$31 Byte 385	\$00	Rollover Sensor - time from Event Enable to time of angle threshold	0	msec



**Event Data General (part two)**

Data Location	Data Value (Hex)	Parameter Descriptor	Translated Value	Units
DID \$90 Byte 0	\$31	Vehicle Identification Number (VIN) Digit 1	1	
DID \$90 Byte 1	\$47	Vehicle Identification Number (VIN) Digit 2	G	
DID \$90 Byte 2	\$31	Vehicle Identification Number (VIN) Digit 3	1	
DID \$90 Byte 3	\$52	Vehicle Identification Number (VIN) Digit 4	R	
DID \$90 Byte 4	\$43	Vehicle Identification Number (VIN) Digit 5	C	
DID \$90 Byte 5	\$36	Vehicle Identification Number (VIN) Digit 6	6	
DID \$90 Byte 6	\$45	Vehicle Identification Number (VIN) Digit 7	E	
DID \$90 Byte 7	\$34	Vehicle Identification Number (VIN) Digit 8	4	
DID \$90 Byte 8	\$30	Vehicle Identification Number (VIN) Digit 9	0	
DID \$90 Byte 9	\$42	Vehicle Identification Number (VIN) Digit 10	B	
DID \$90 Byte 10	\$55	Vehicle Identification Number (VIN) Digit 11	U	
DID \$90 Byte 11	\$31	Vehicle Identification Number (VIN) Digit 12	1	
DID \$90 Byte12	\$30	Vehicle Identification Number (VIN) Digit 13	0	
DID \$90 Byte 13	\$30	Vehicle Identification Number (VIN) Digit 14	0	
DID \$90 Byte 14	\$30	Vehicle Identification Number (VIN) Digit 15	0	
DID \$90 Byte 15	\$34	Vehicle Identification Number (VIN) Digit 16	4	
DID \$90 Byte 16	\$39	Vehicle Identification Number (VIN) Digit 17	9	
DID \$9A Bytes 0-1	\$0401	System Type	Autoliv	
DID \$B4 Bytes 0-1	\$4153	Manufacturing Traceability Data, Component Identifier	AS	
DID \$B4 Bytes 2-5	\$34383935	Manufacturing Traceability Data, Part Number/Broadcast Code	4895	
DID \$B4 Byte 6	\$45	ManufacturingTraceability Data, Supplier Code	E	
DID \$B4 Bytes 7-15	\$3035303030333 83334	Manufacturing Traceability Data, Traceability Number	050003834	
DID \$C1 Bytes 0-3	\$00CF22EB	Software Module Identifier 1	00CF22EB	
DID \$C2 Bytes 0-3	\$015B5070	Software Module Identifier 2	015B5070	
DID \$C3 Bytes 0-3	\$0189ECCF	Software Module Identifier 3	0189ECCF	
DID \$CB Bytes 0-3	\$00CF22EF	End Model Part Number	00CF22EF	



• Car  
• Uphol  
• Air Du

156

155





- Carpet
- Upholster
- Air Ducts

1591



- Carpet
- Upholstery
- Air Ducts

On the Spot  
CARPET CLEANING





























DOT 3

**WARNING** Clean filler cap before removing. Use only DOT 3 fluid from a sealed container.

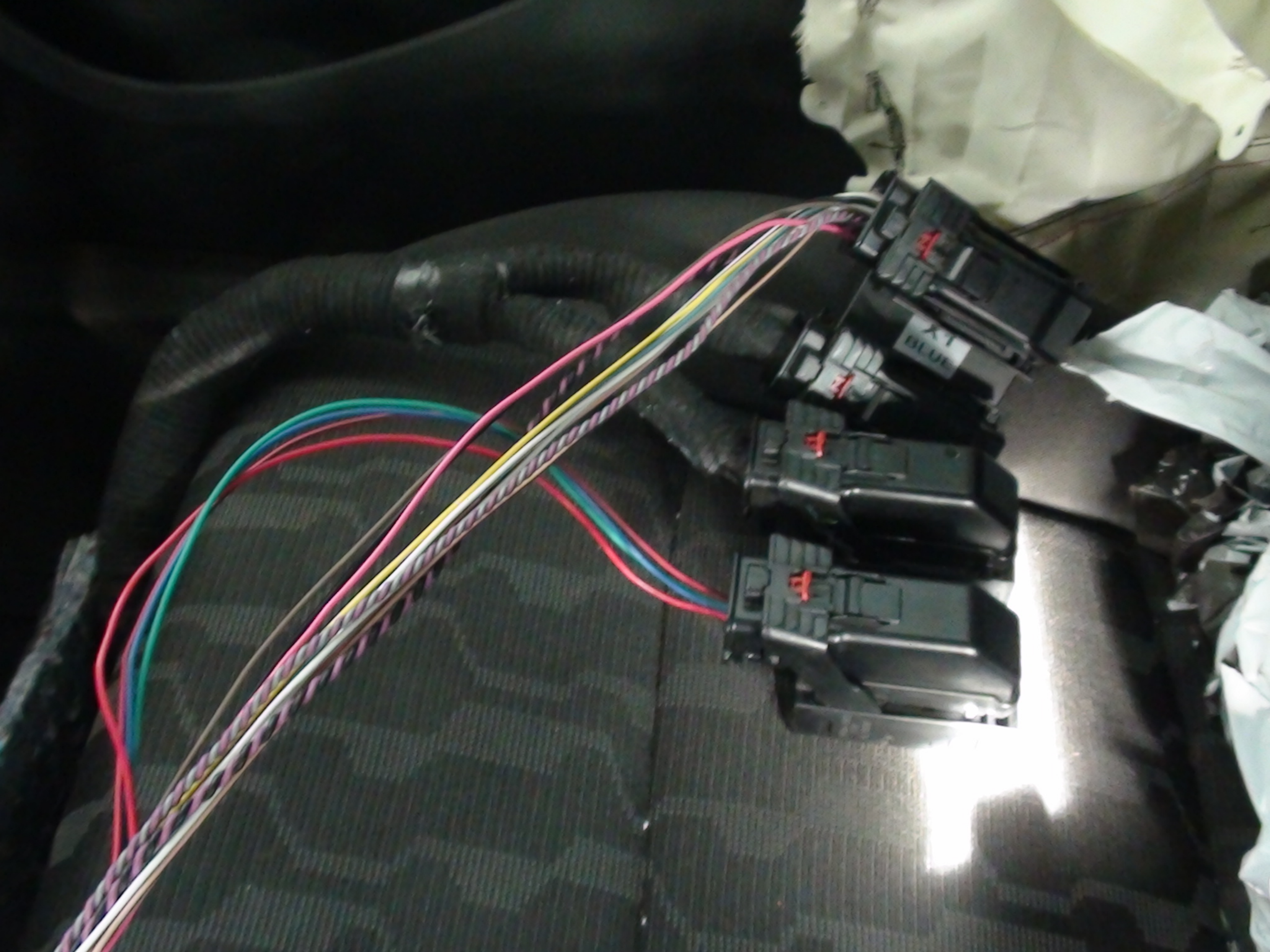
To help avoid vehicle damage, do not jump start other vehicles unless you do so per instructions. 39940110

Diagram of a fuse block with various colored fuses:

- Red fuses: -10, -10, -10, -10, -10, -10
- Blue fuse: -15
- Green fuses: 5, 5
- Orange fuse: 5
- Yellow fuse: 5
- White fuse: 5















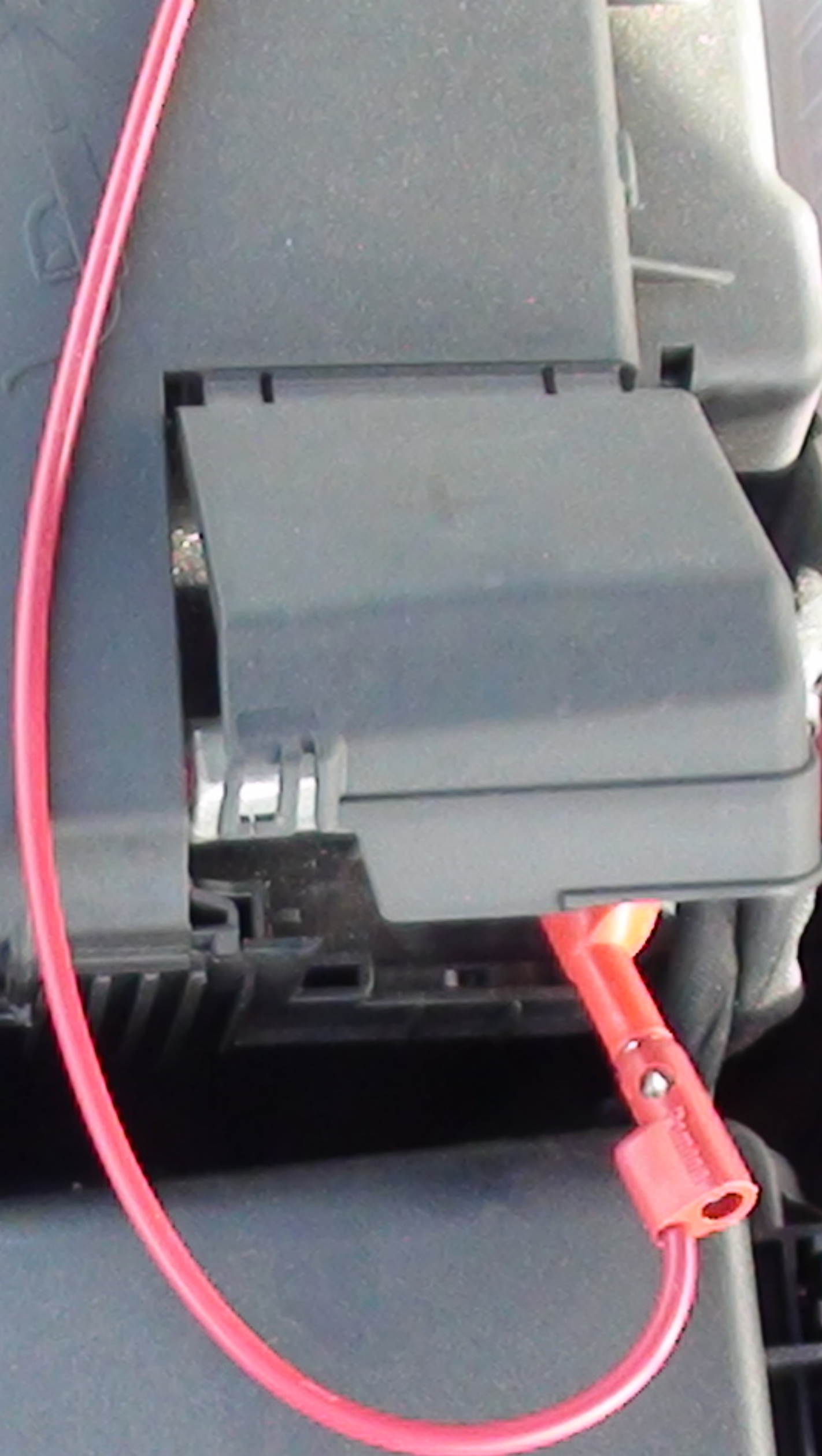




NEVER RECHARGE  
IN A GARAGE OR  
ENCLOSED AREA  
NEVER RECHARGE  
IN A ROOM WITH  
OPEN FLAMES OR  
FLAMMABLE VAPORS  
NEVER RECHARGE  
IN A ROOM WITH  
OPEN FLAMES OR  
FLAMMABLE VAPORS  
NEVER RECHARGE  
IN A ROOM WITH  
OPEN FLAMES OR  
FLAMMABLE VAPORS

ON  
NEVER RECHARGE  
IN A GARAGE OR  
ENCLOSED AREA  
NEVER RECHARGE  
IN A ROOM WITH  
OPEN FLAMES OR  
FLAMMABLE VAPORS  
NEVER RECHARGE  
IN A ROOM WITH  
OPEN FLAMES OR  
FLAMMABLE VAPORS

CATALOG NO. 17-01  
**237**  
REPLACEMENT  
MODEL DE RE  
**47-6**  
MAX AMP 485 MAX CHG 525  
**ACD**



















13296533  
AP

601 W



13296533  
AP



13286333  
AP





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To help avoid vehicle damage, do not jump start other vehicles.  
20040116

25916392

MADE IN CANADA

10

15

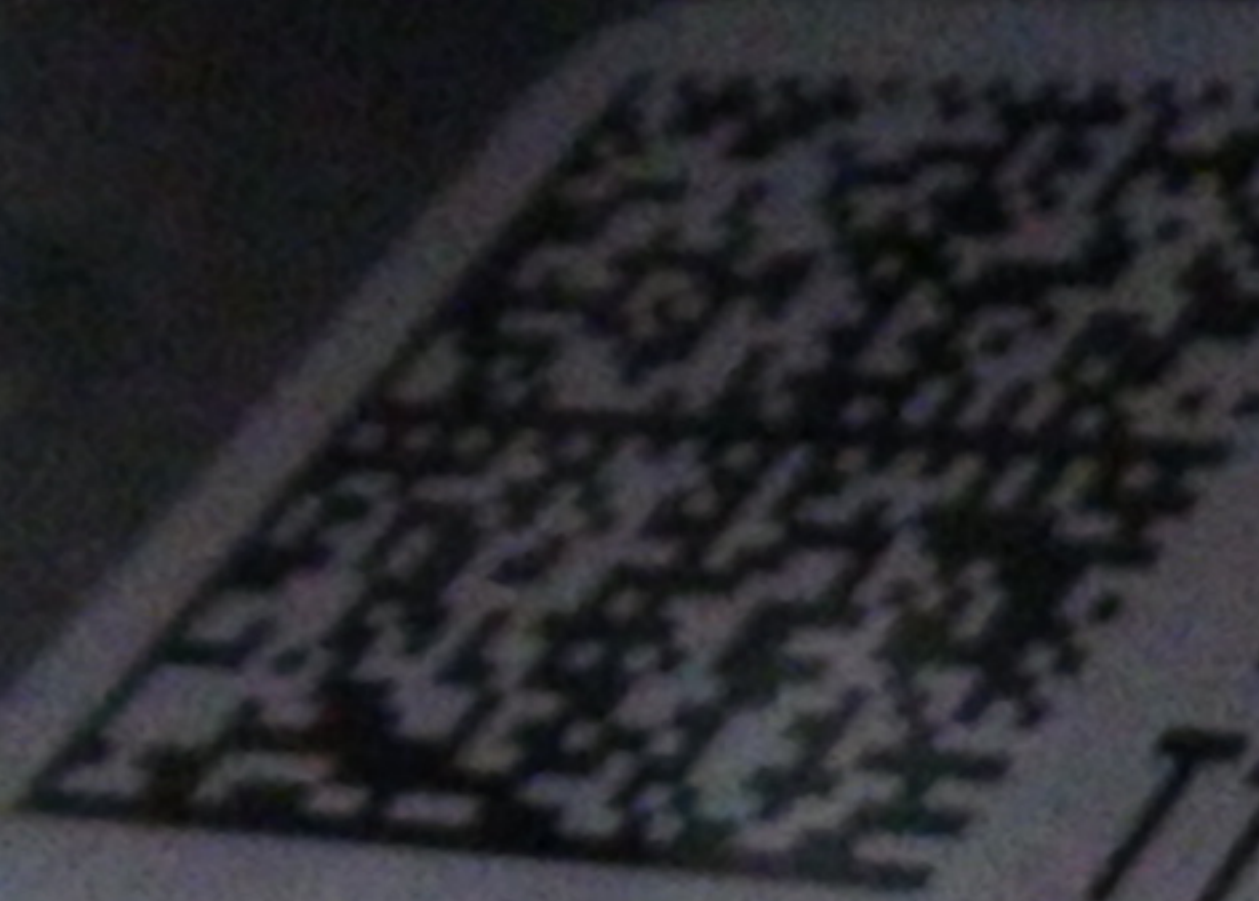
10

5

10

10

10

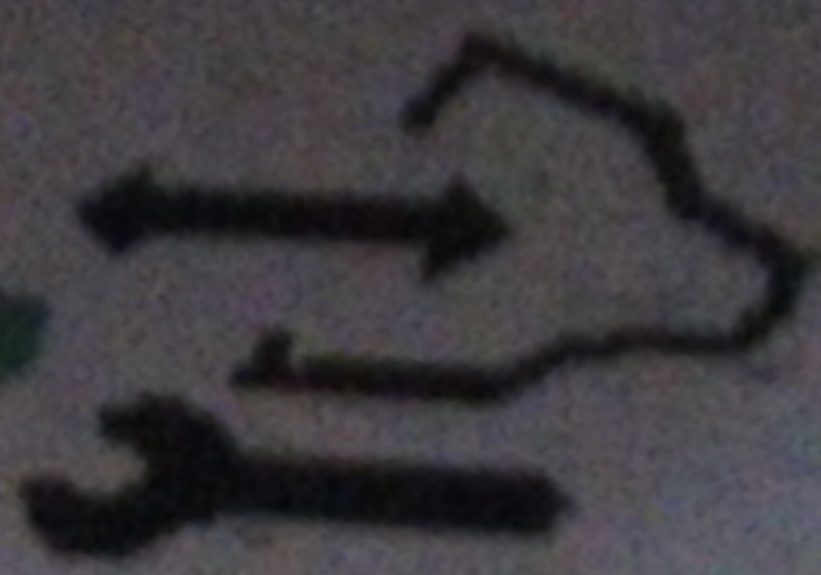


Y8460100090000X

P20997681 2P007

12V832023845

T11 10299P017



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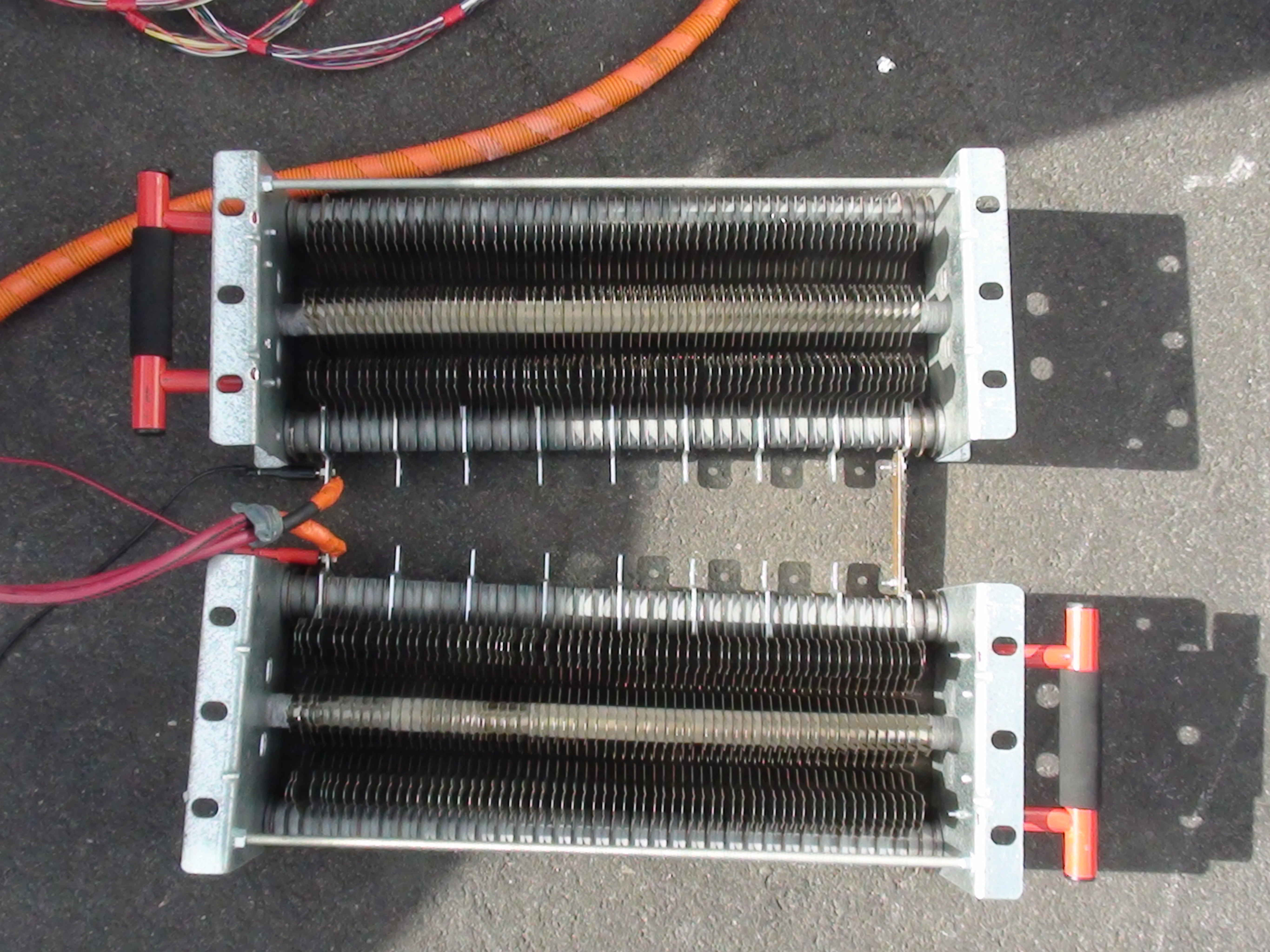


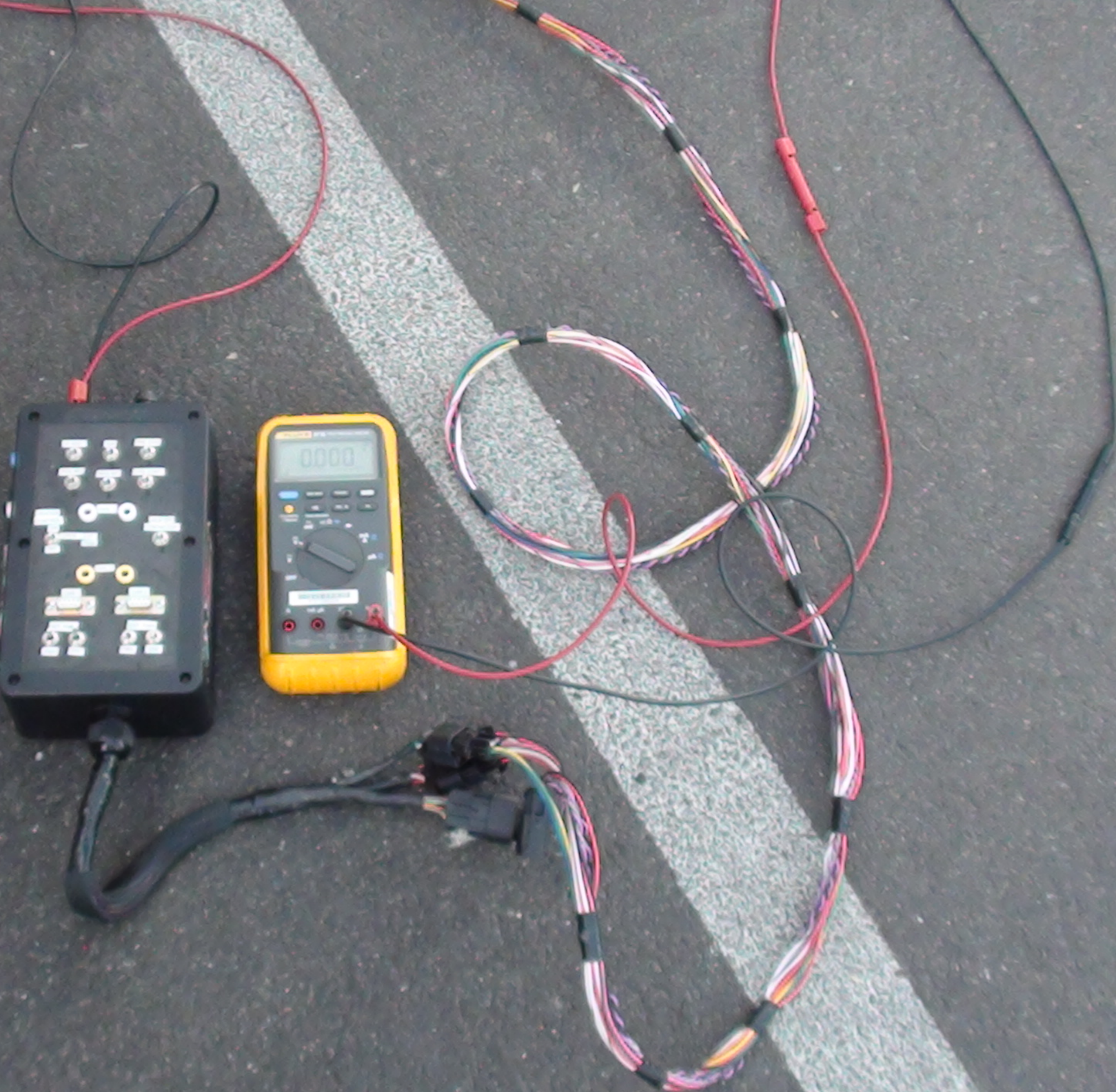
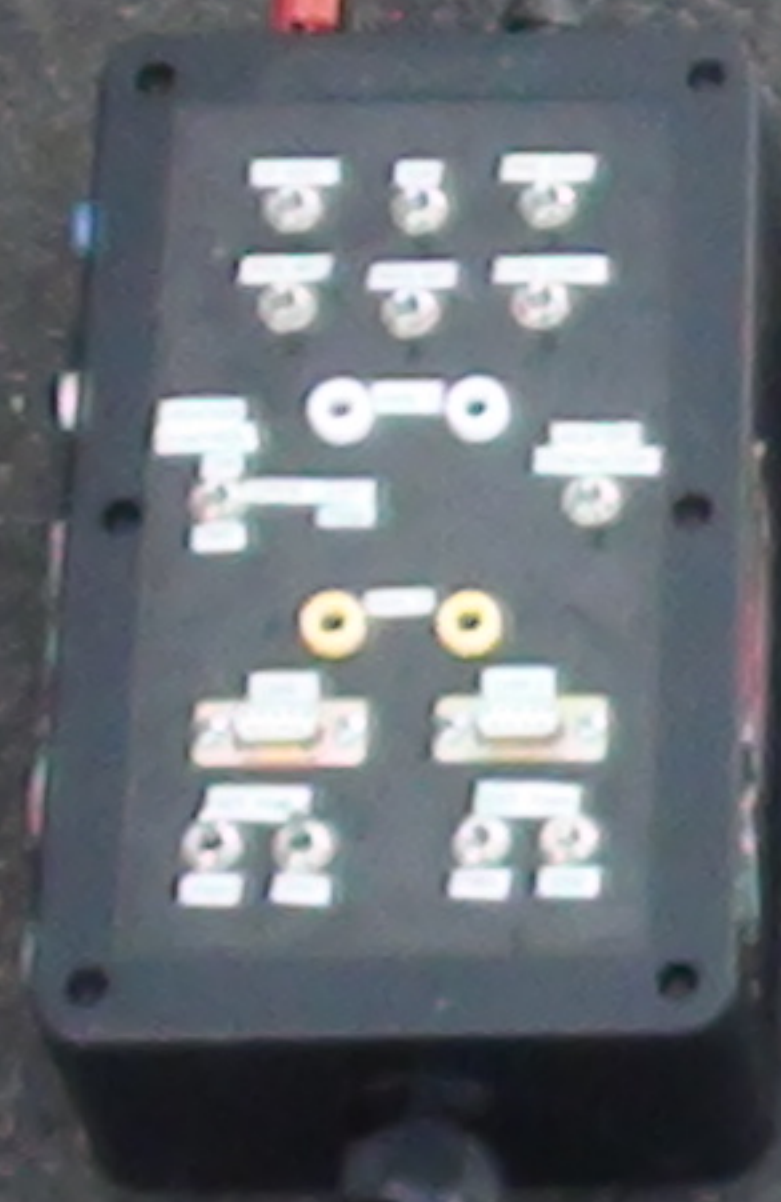
450  
2360

22754805  
AAU5  
2360

GM  
22754805  
AAU5  
2360  
PART OF THE  
GM WIRE HARNESS  
ASSEMBLY











CAUTION

ALWAYS WEAR YOUR SEATBELT

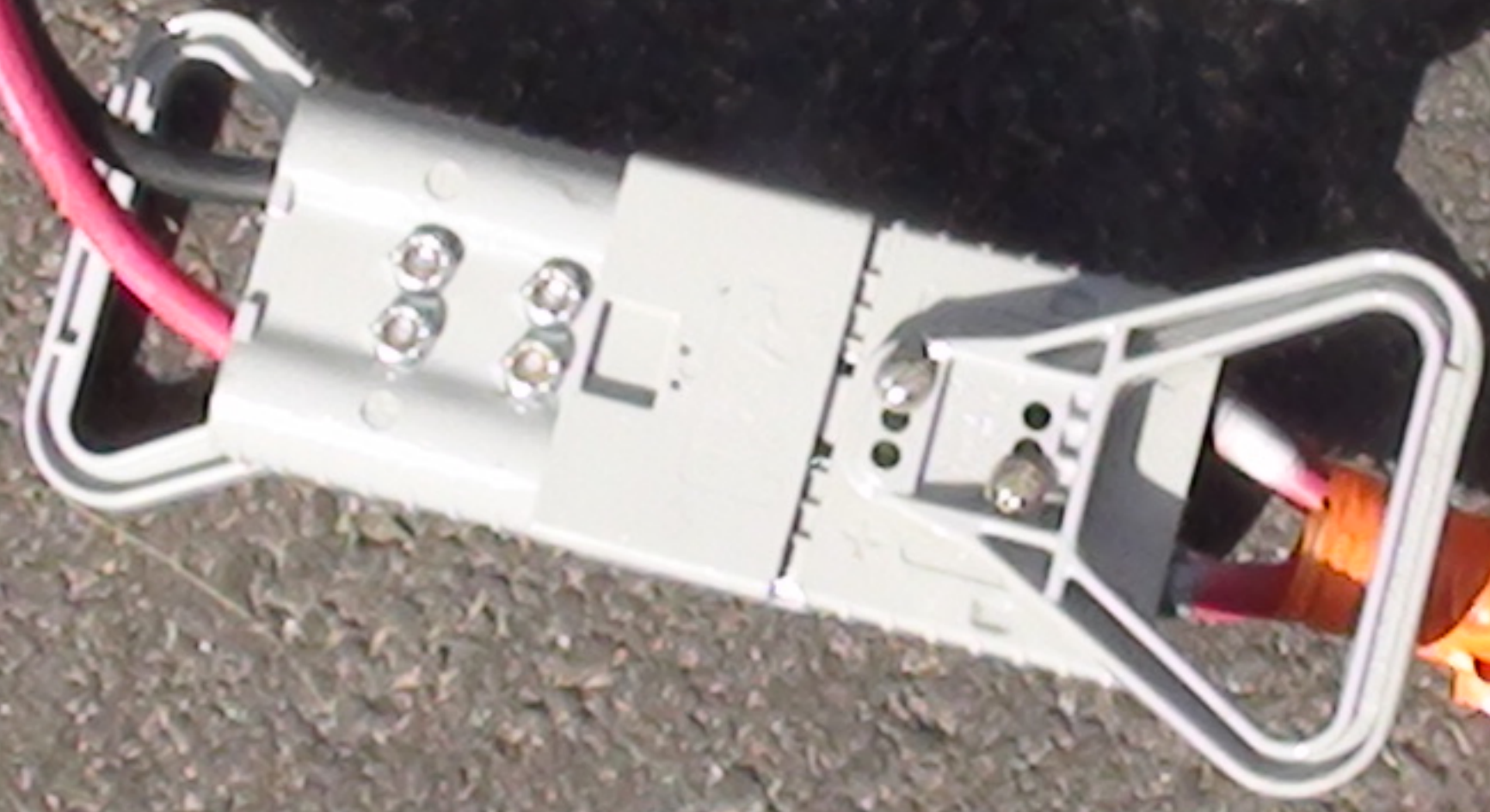


CAUTION

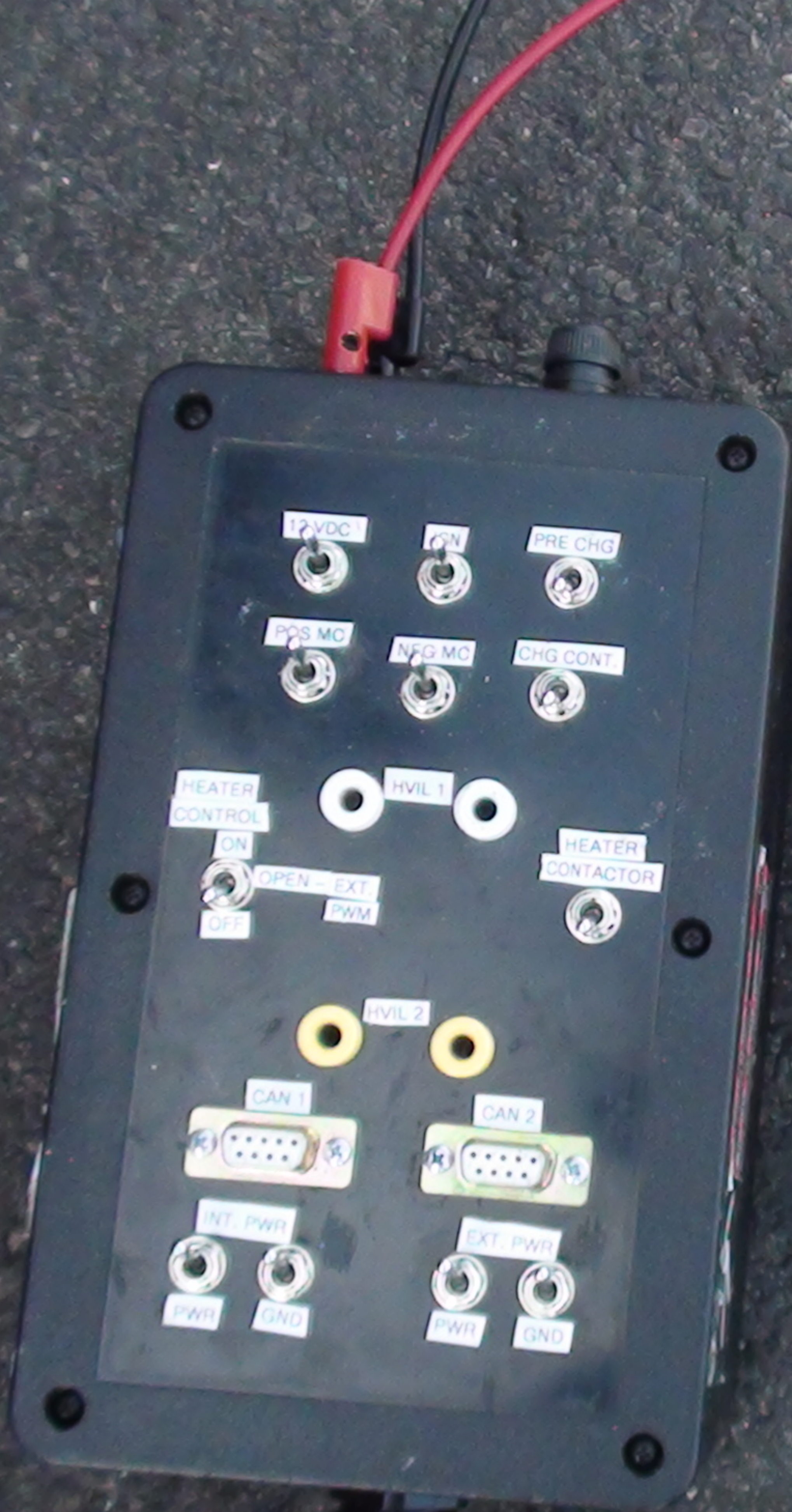
CAUTION

CAUTION

CAUTION







FLUKE 87 III TRUE RMS MULTIMETER

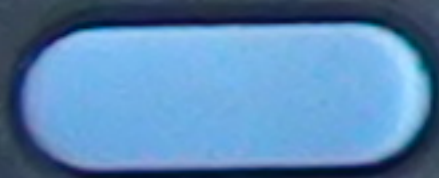
AUTO

DC

V

-343.6

0 0.5 1.0 400



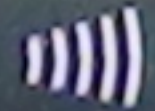
MIN MAX

RANGE

HOLD



4 1/2 DIGITS  
1 Second



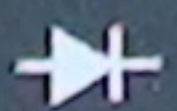
PEAK MIN MAX

REL Δ

Hz

mV

Ω



V

mA  
A



V

μA



11:42 am

Fri, Nov 18, 2011

Message

MENU

Contacts



**verizon**



# ESIS - GM Claims Unit

Photographer Bill Smith  
Date 1/31/77 Claim # 1021

LOPART VEN  
REG. # KGI RC6E40B4100049  
9915 N. VIRGINIA, RENO, NV

GM

1GTRC6-E40BU10.0049



MFD BY GENERAL MOTORS LLC

DATE  
11/10

GVWR  
2062 KG  
4545 LB

GAWR FRT  
1139 KG  
2511 LB

GAWR RR  
923 KG  
2034 LB

THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR  
VEHICLE SAFETY, BUMPER, AND THEFT PREVENTION STANDARDS IN  
EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

1G1RC6E408U100049

TYPE: PASS CAR





20461291x

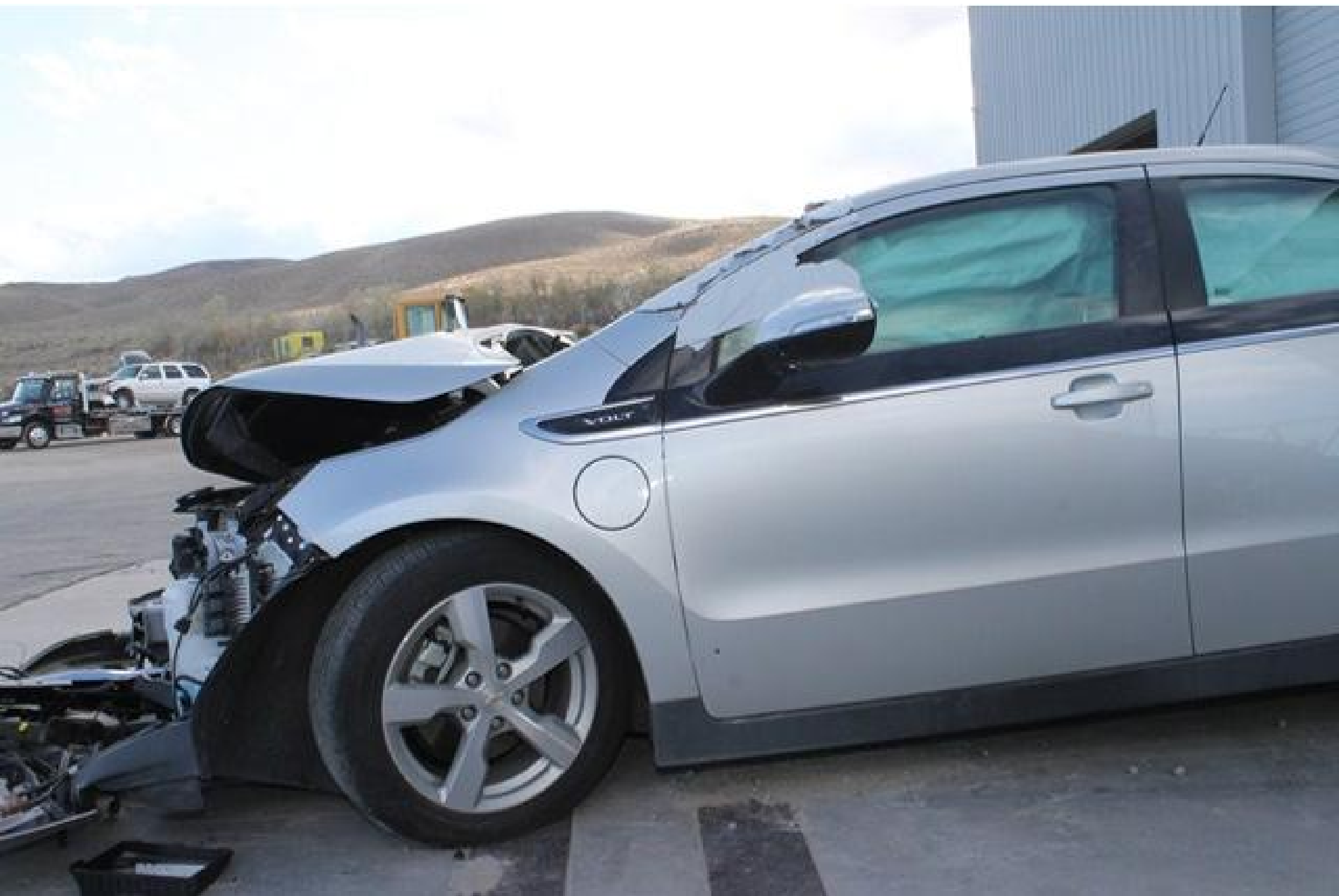






















**SALE  
VEHICLES**







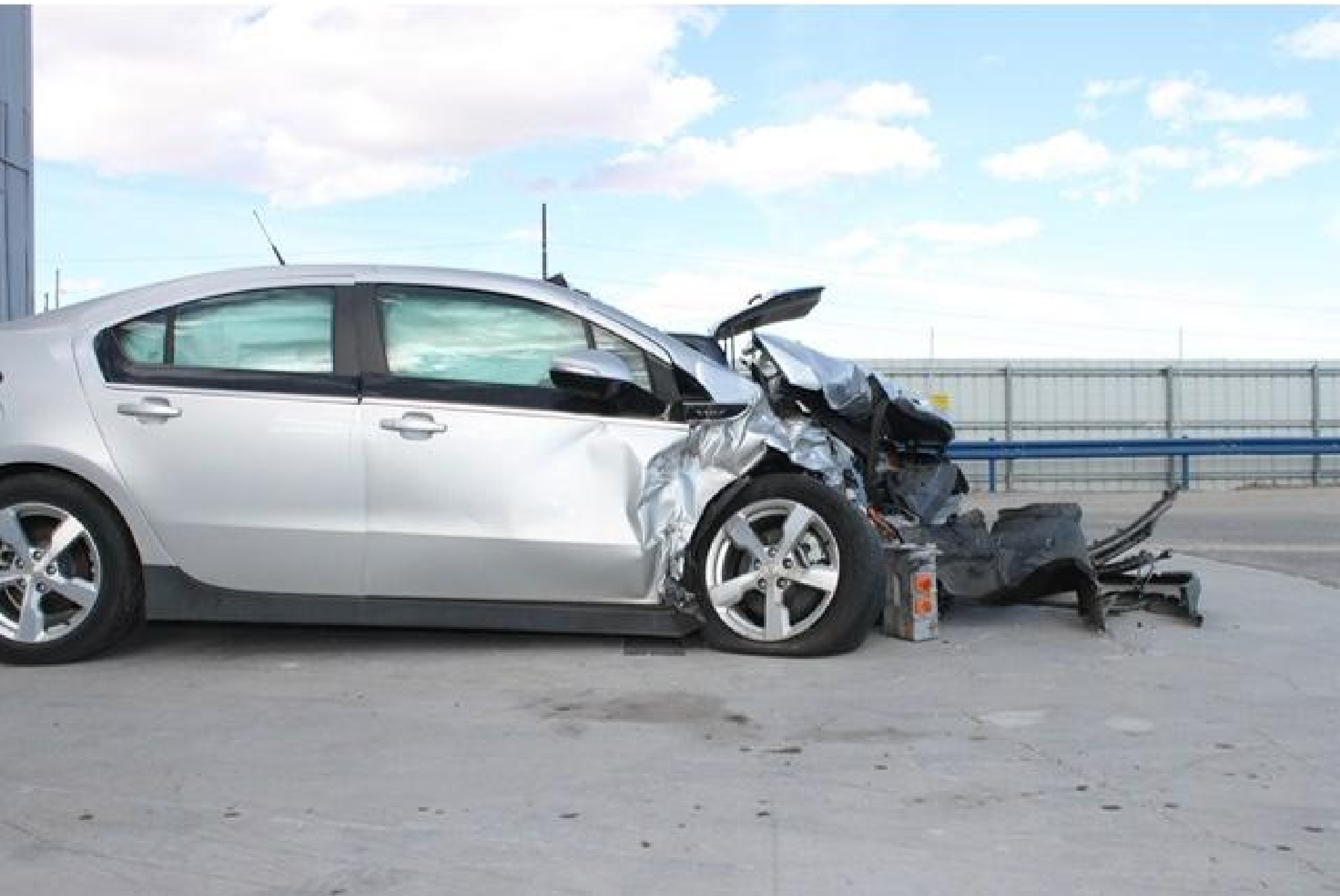


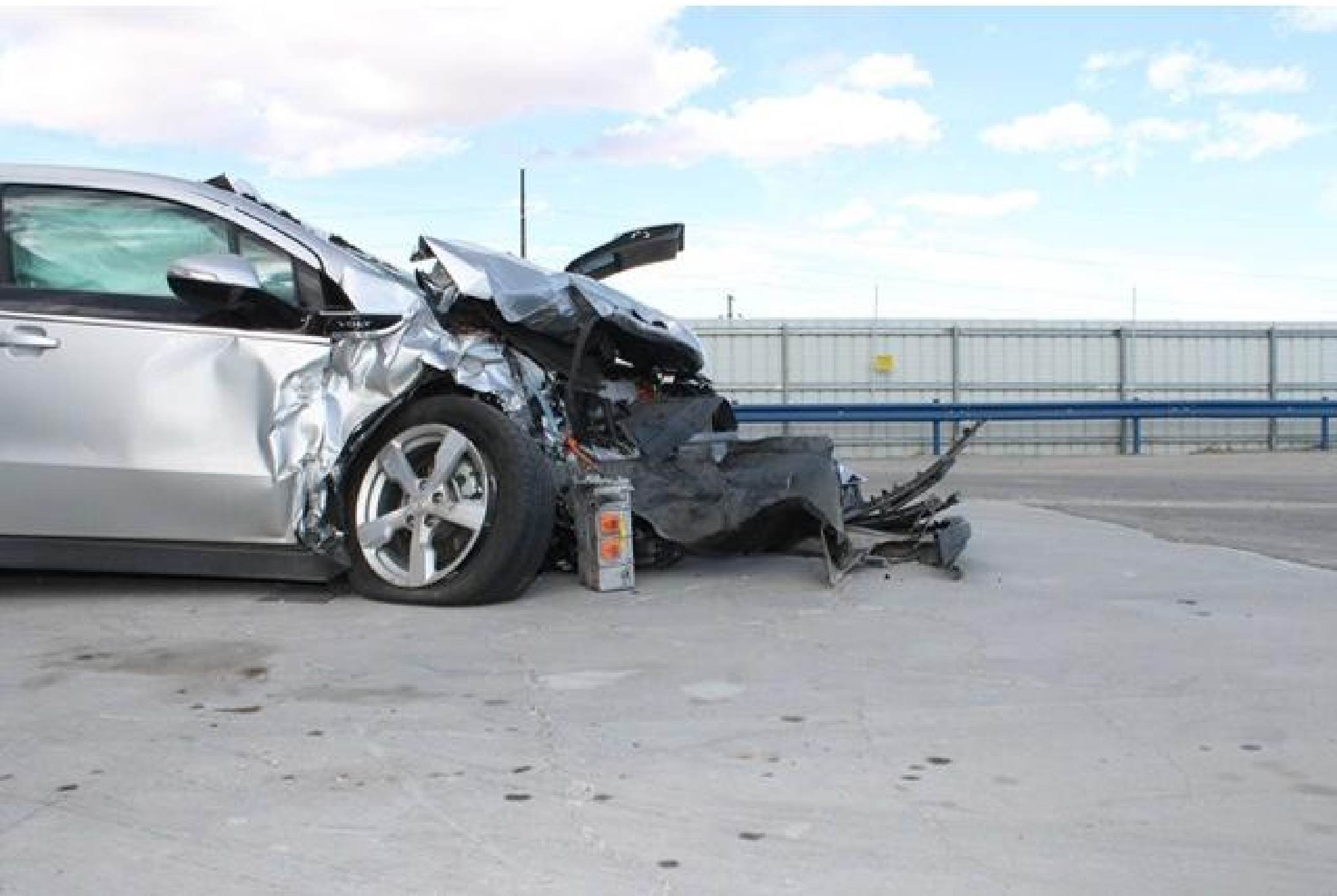




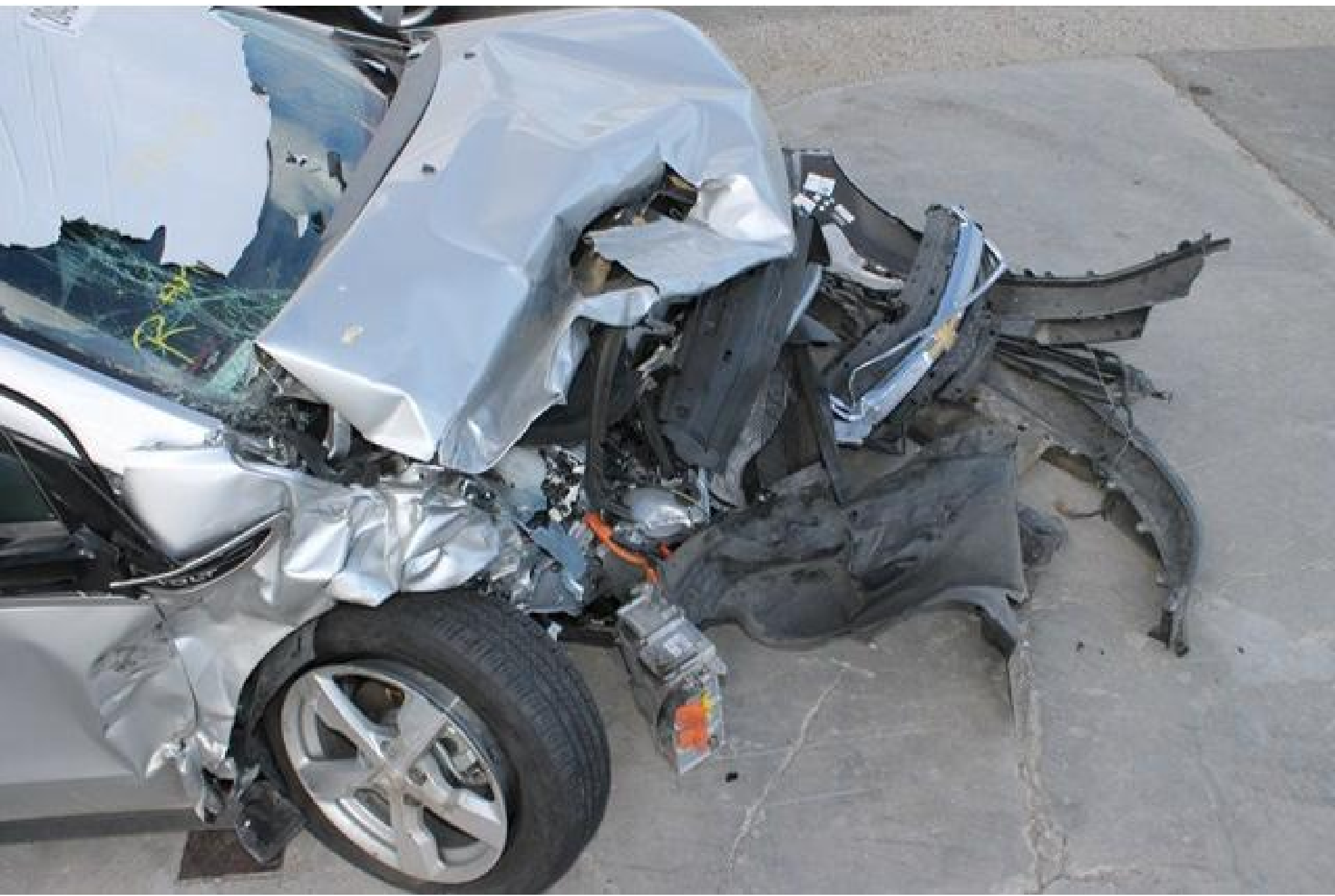


















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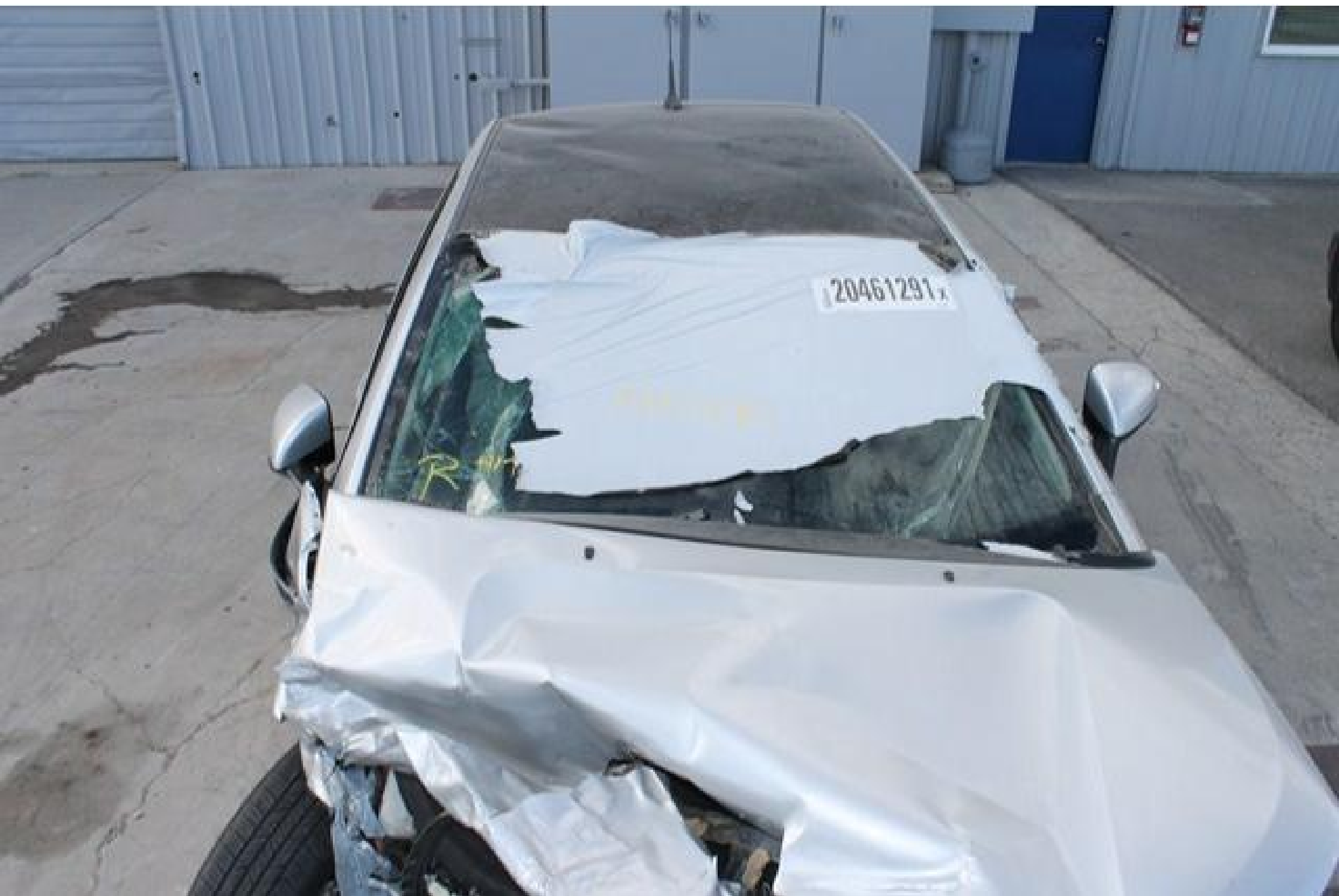






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VEHICLES



FEATURED  
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**SALE  
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**SALE  
VEHICLES**































**FEATURED  
SALE  
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**FEATURED  
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**FEATURED  
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**FEATURED  
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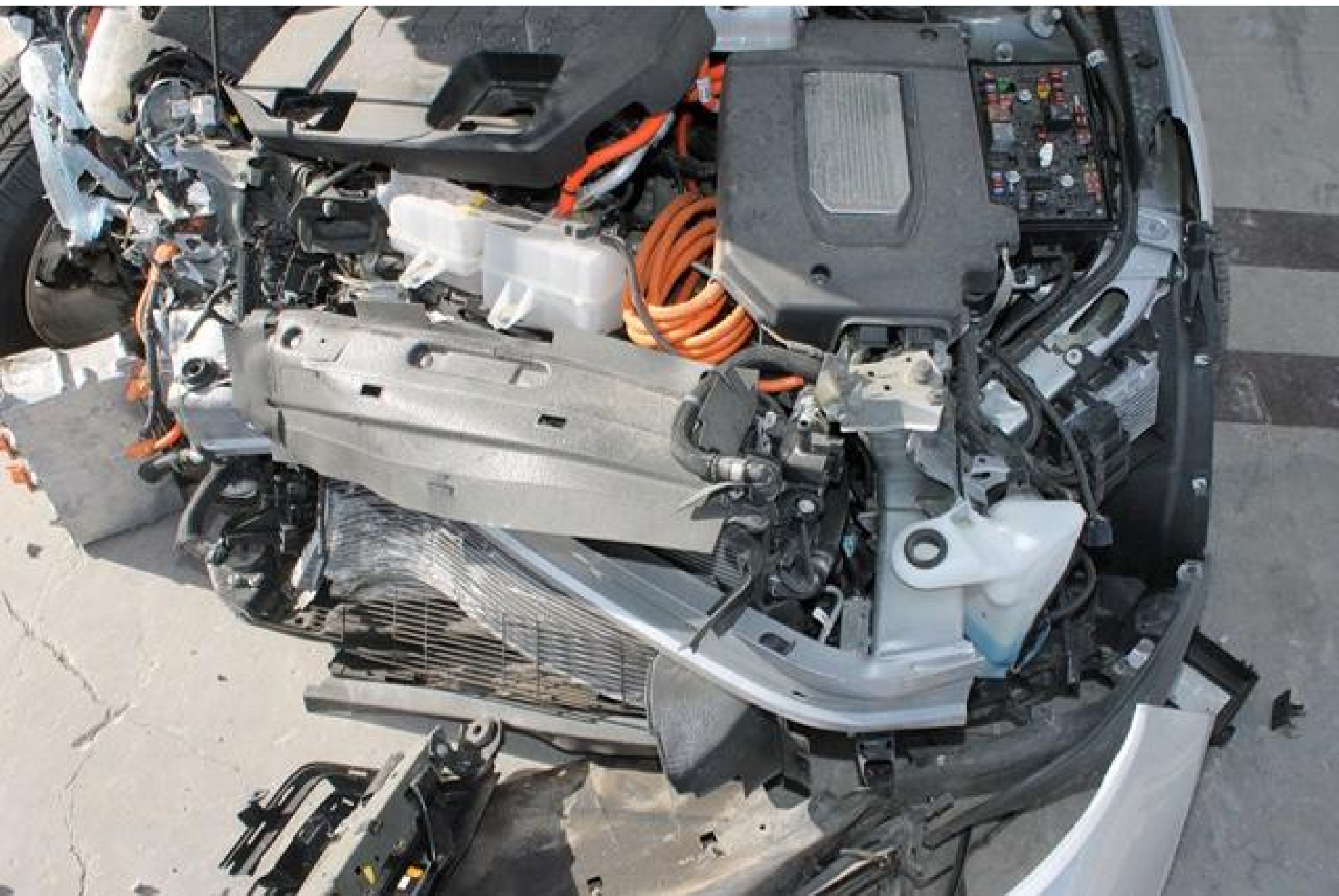




















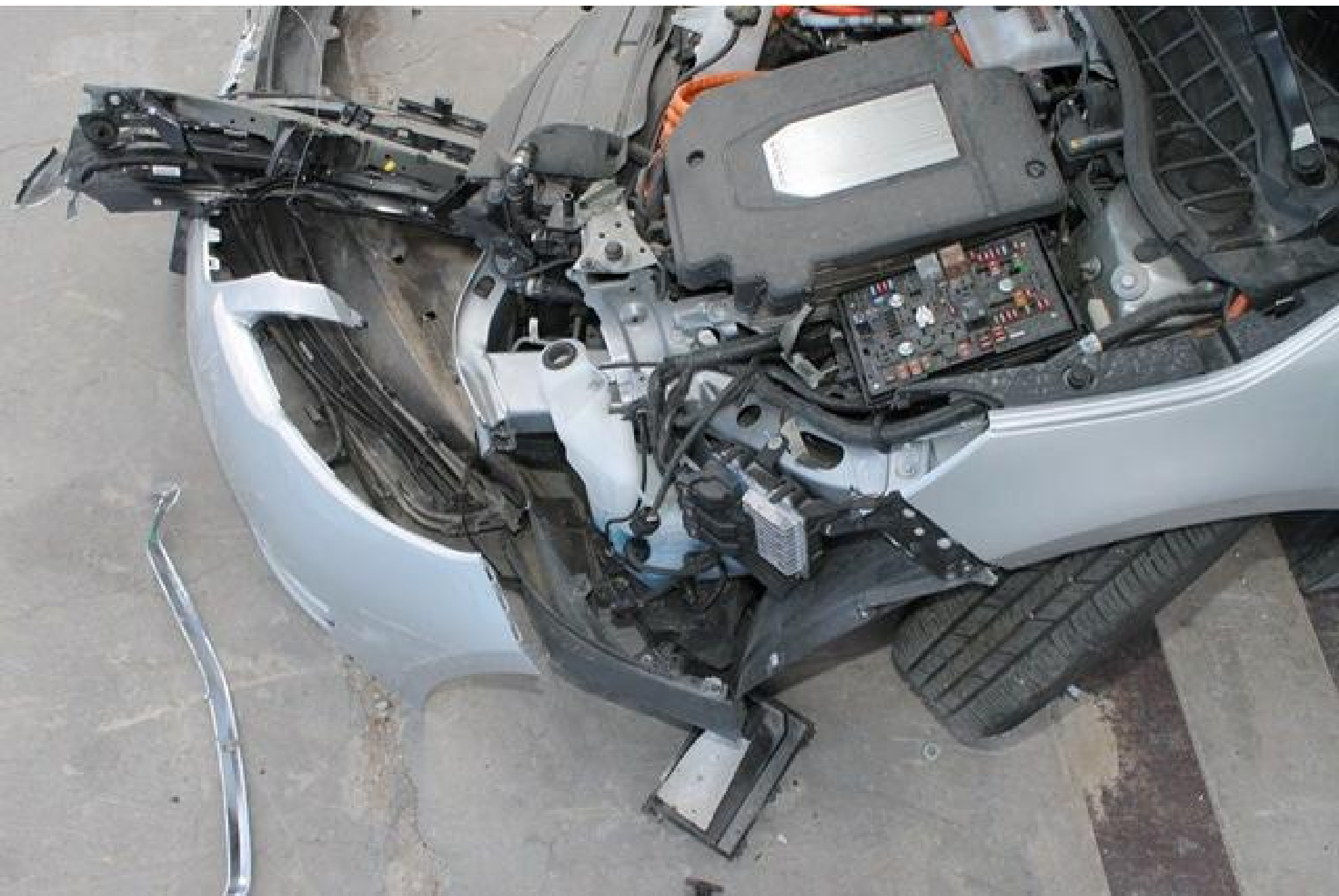


















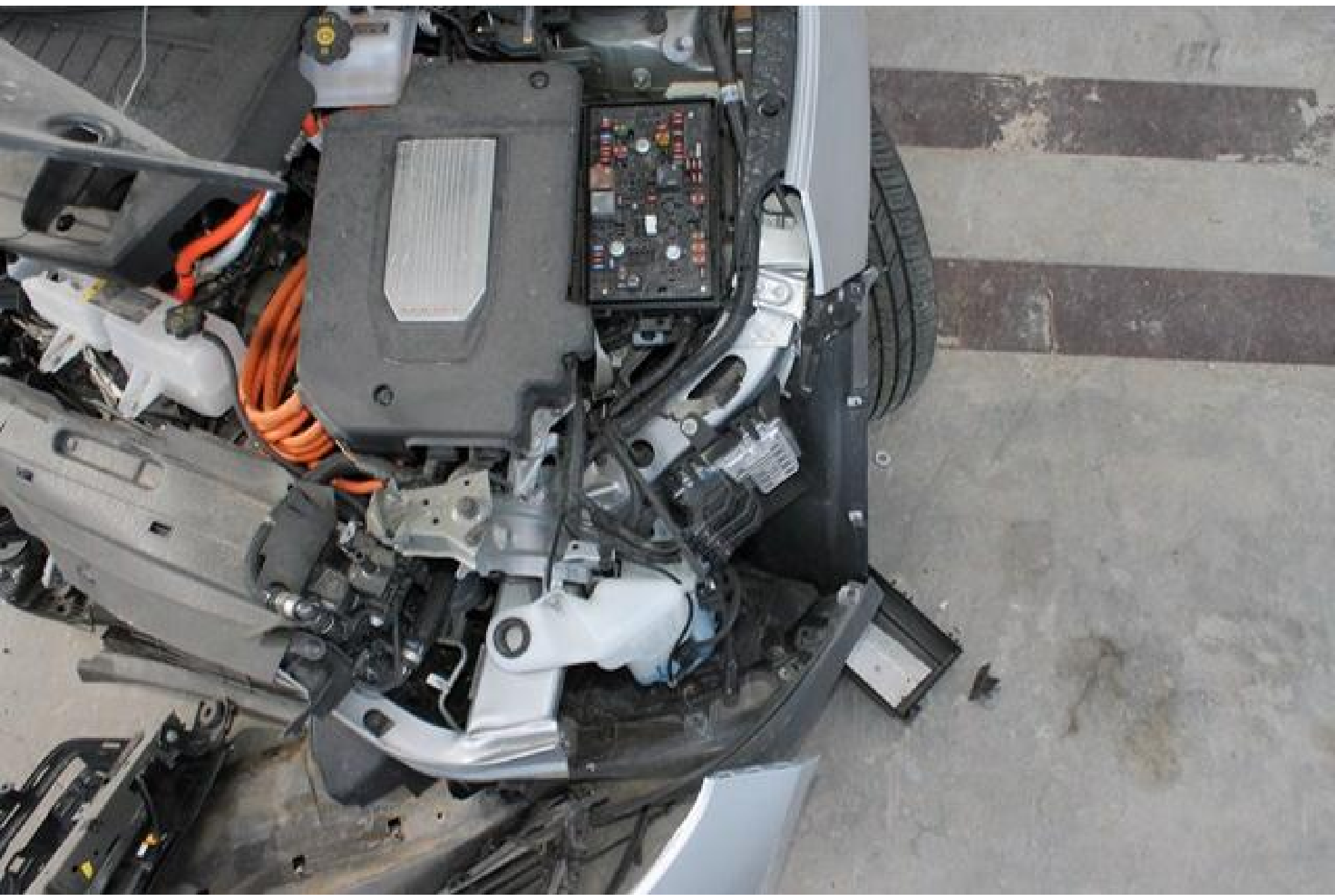
















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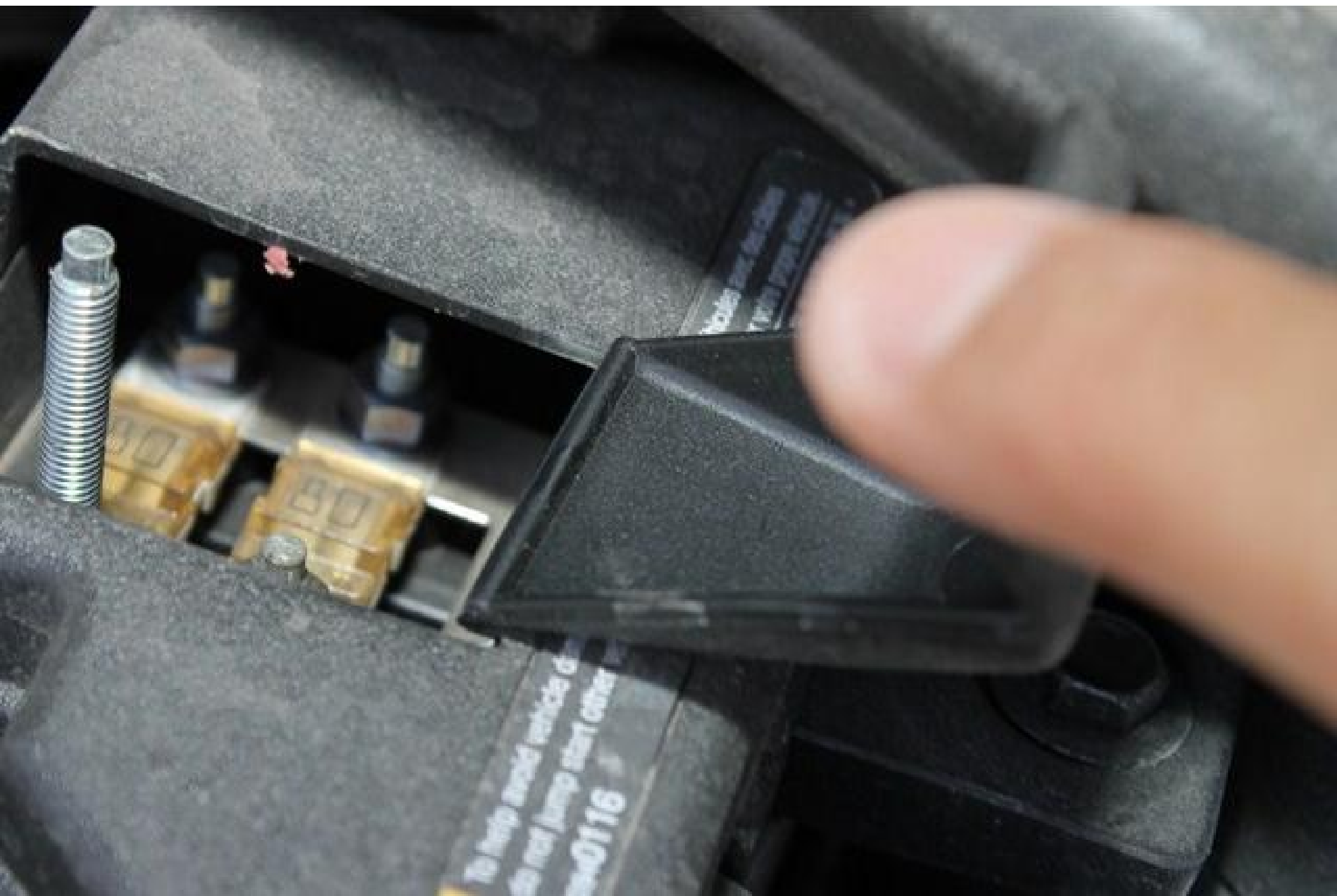






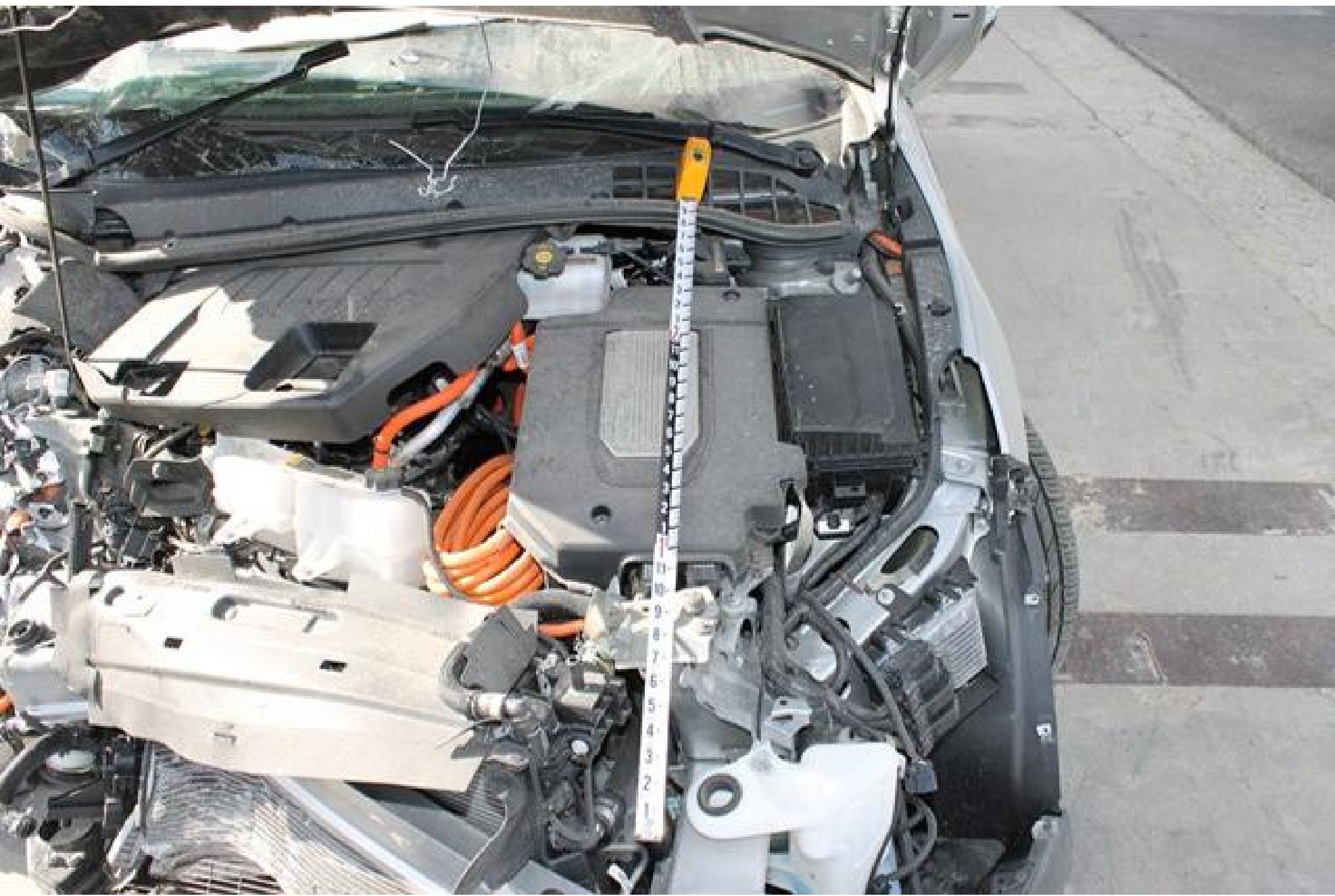
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do not jump start other vehicles  
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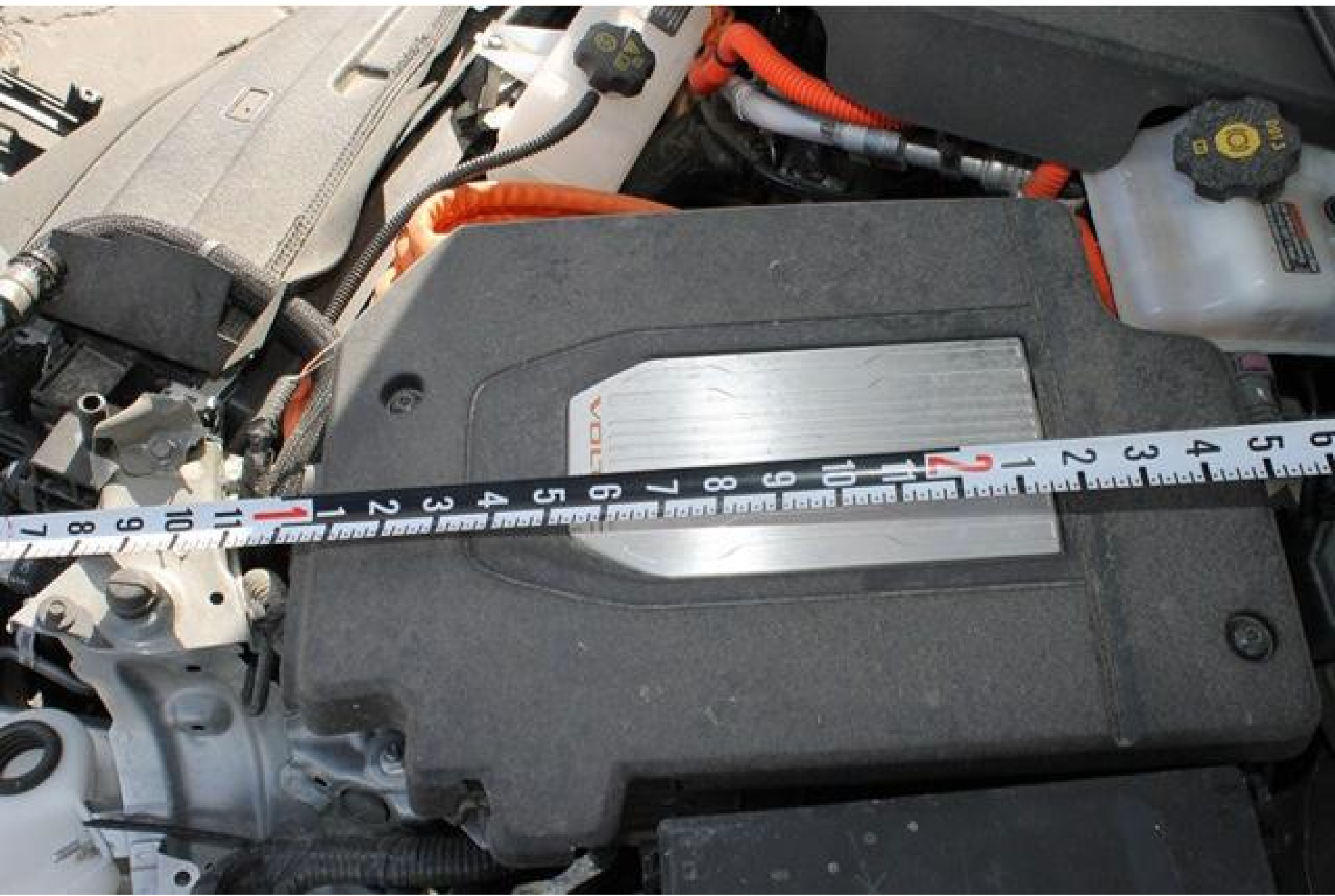
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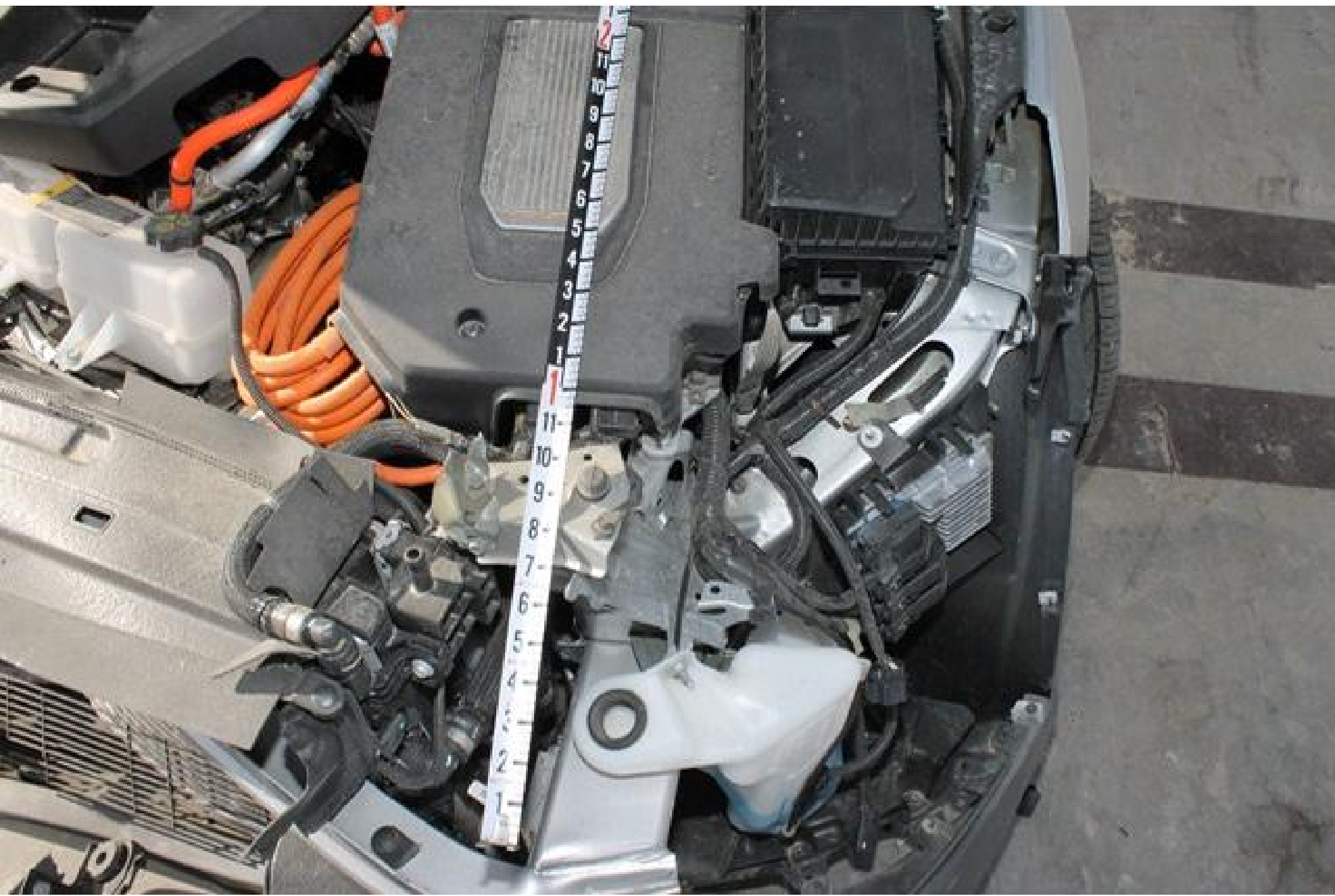


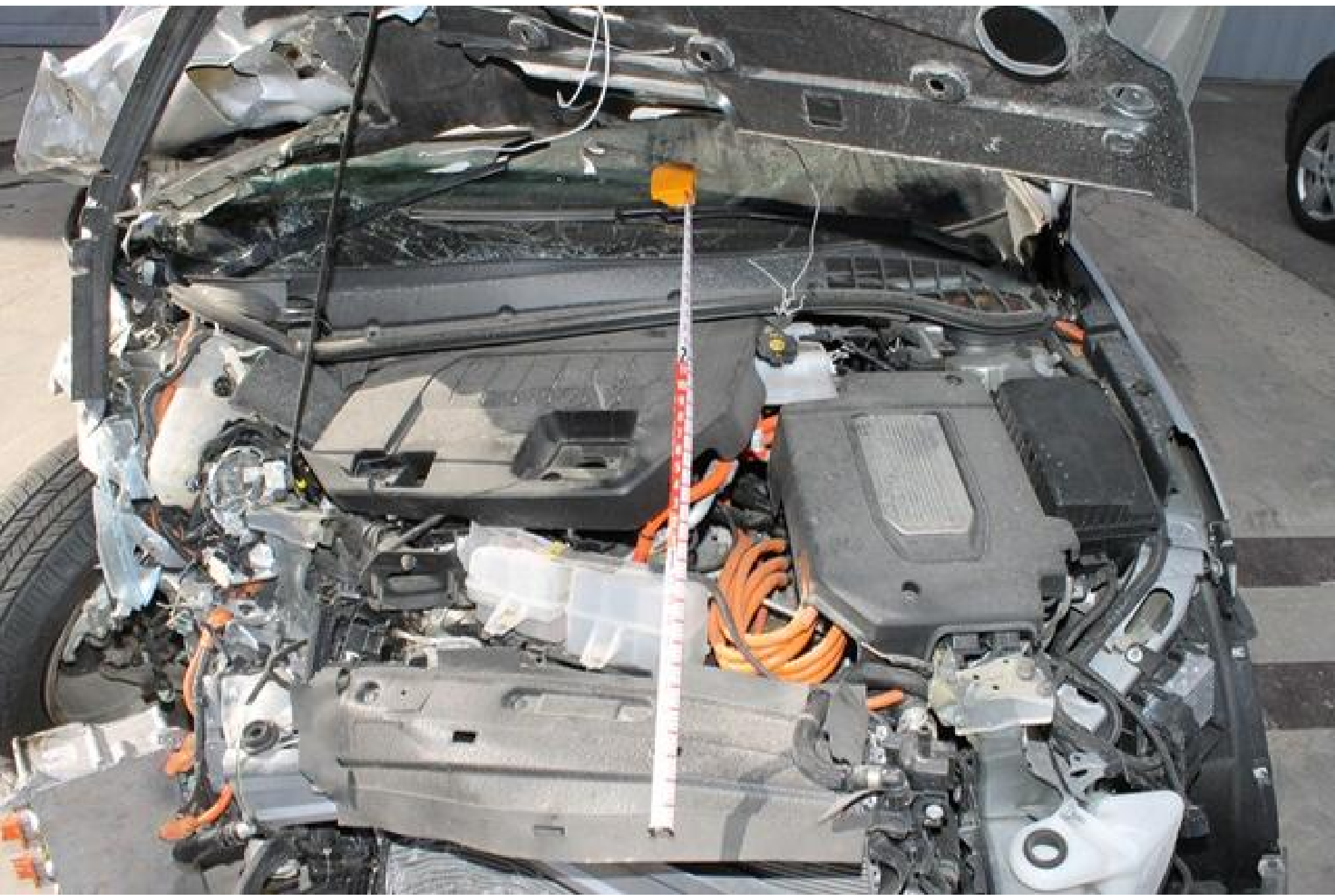














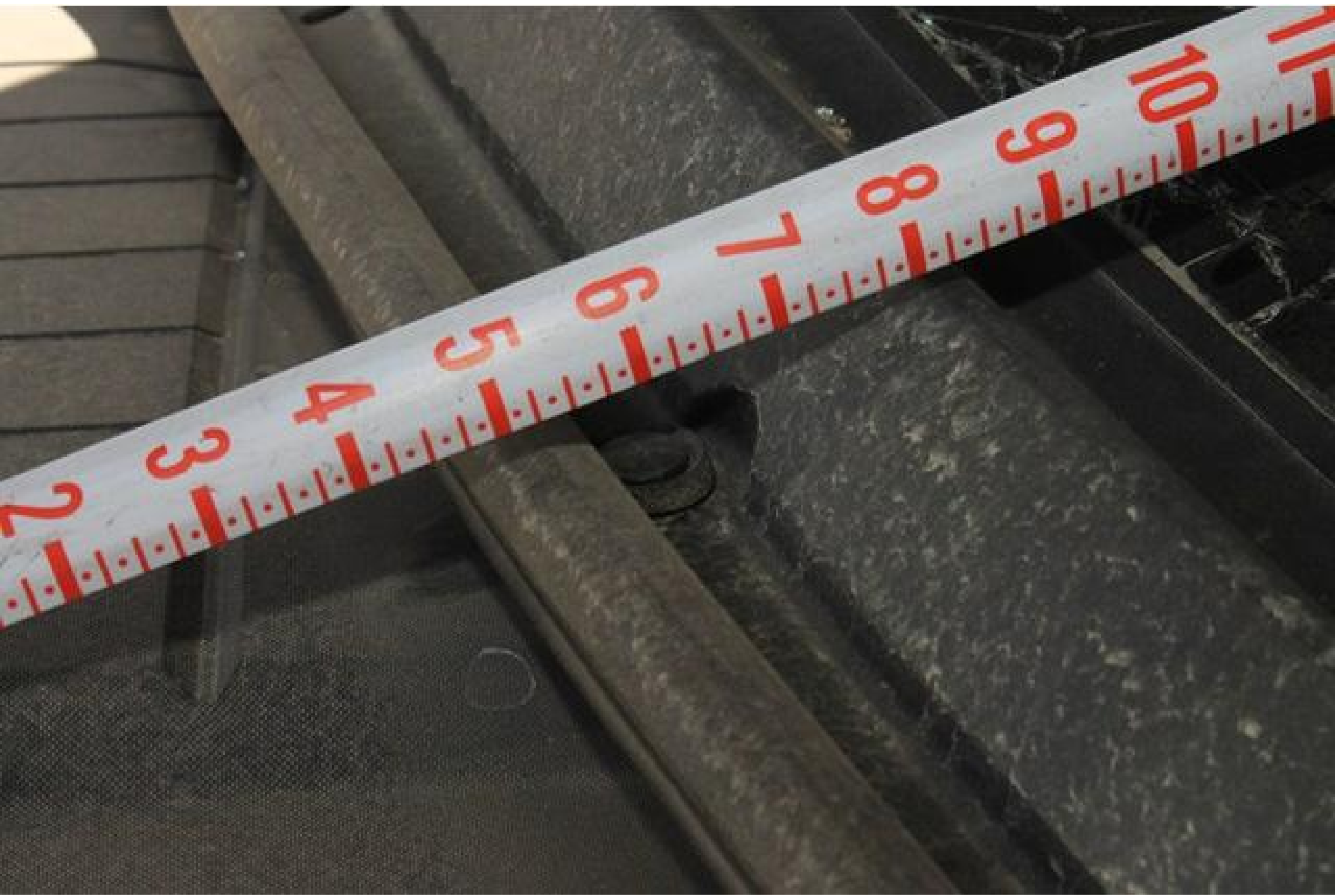




































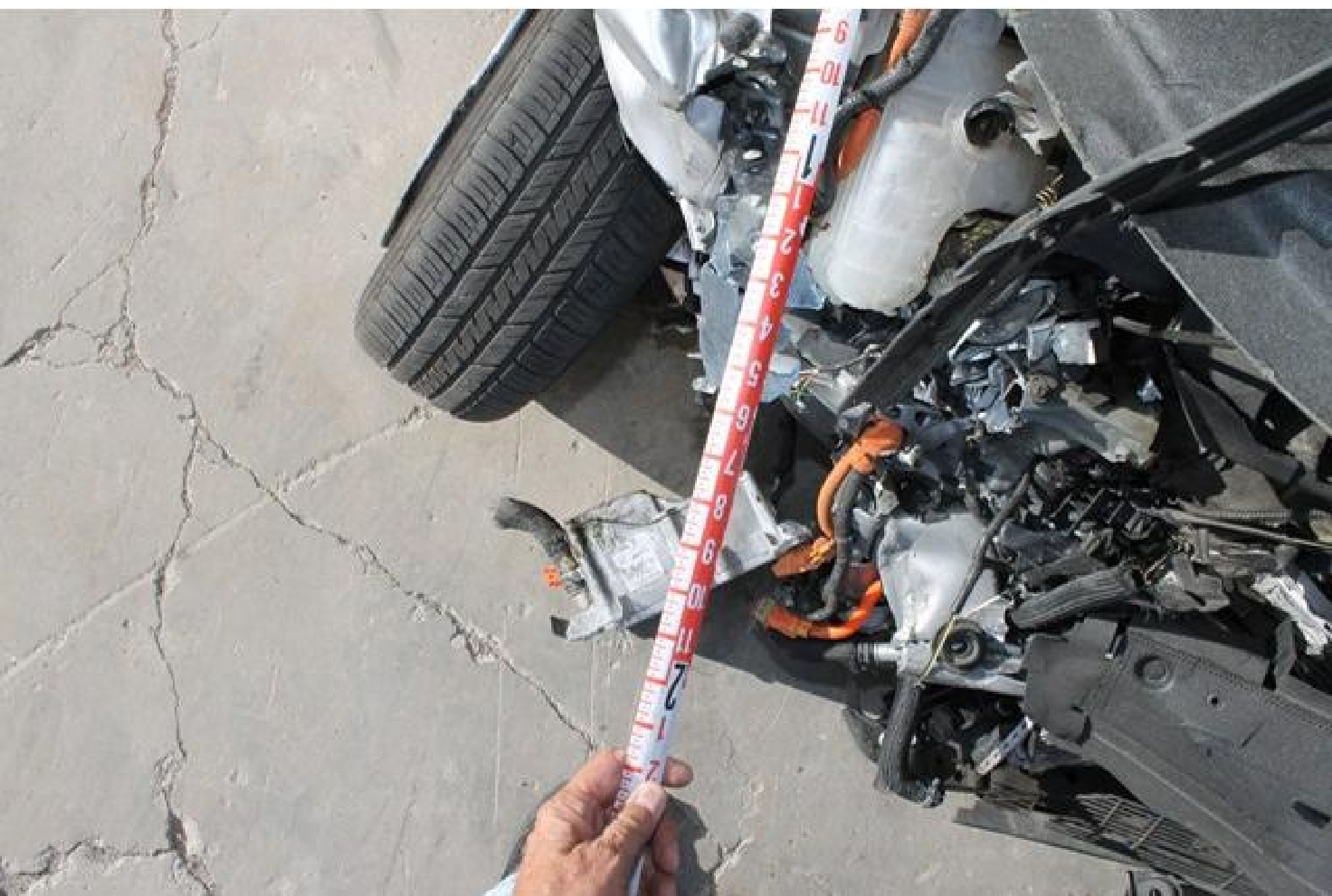


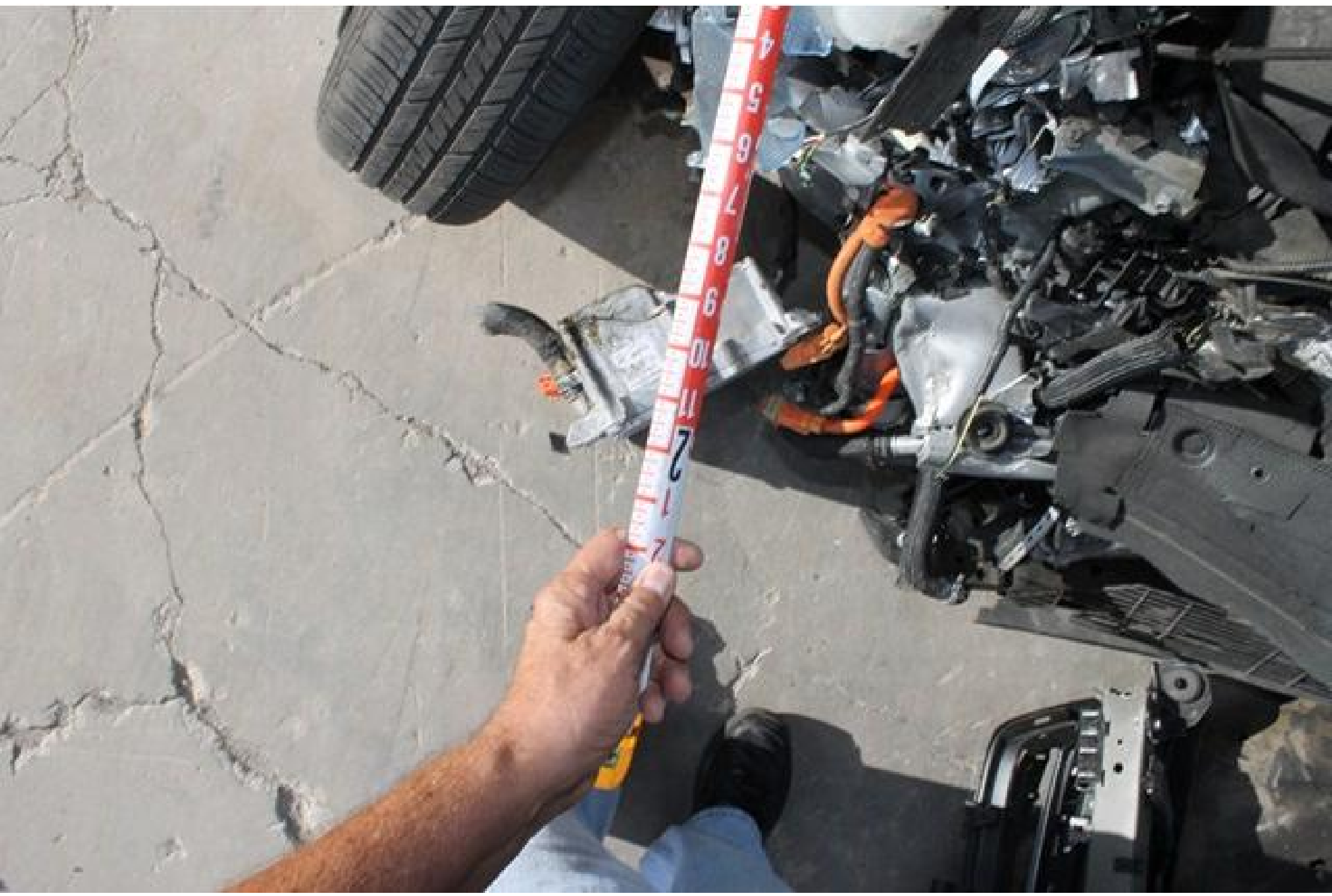




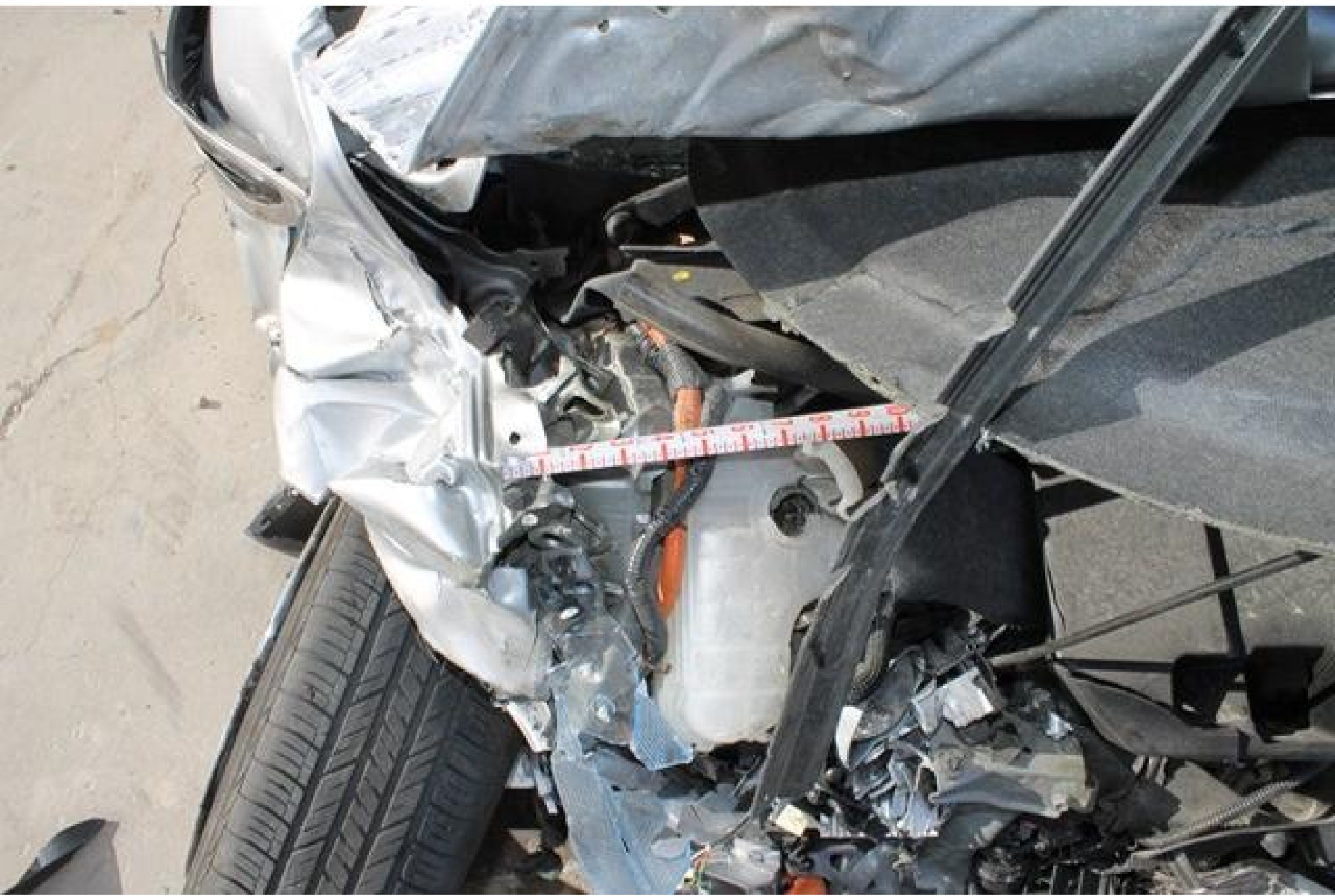


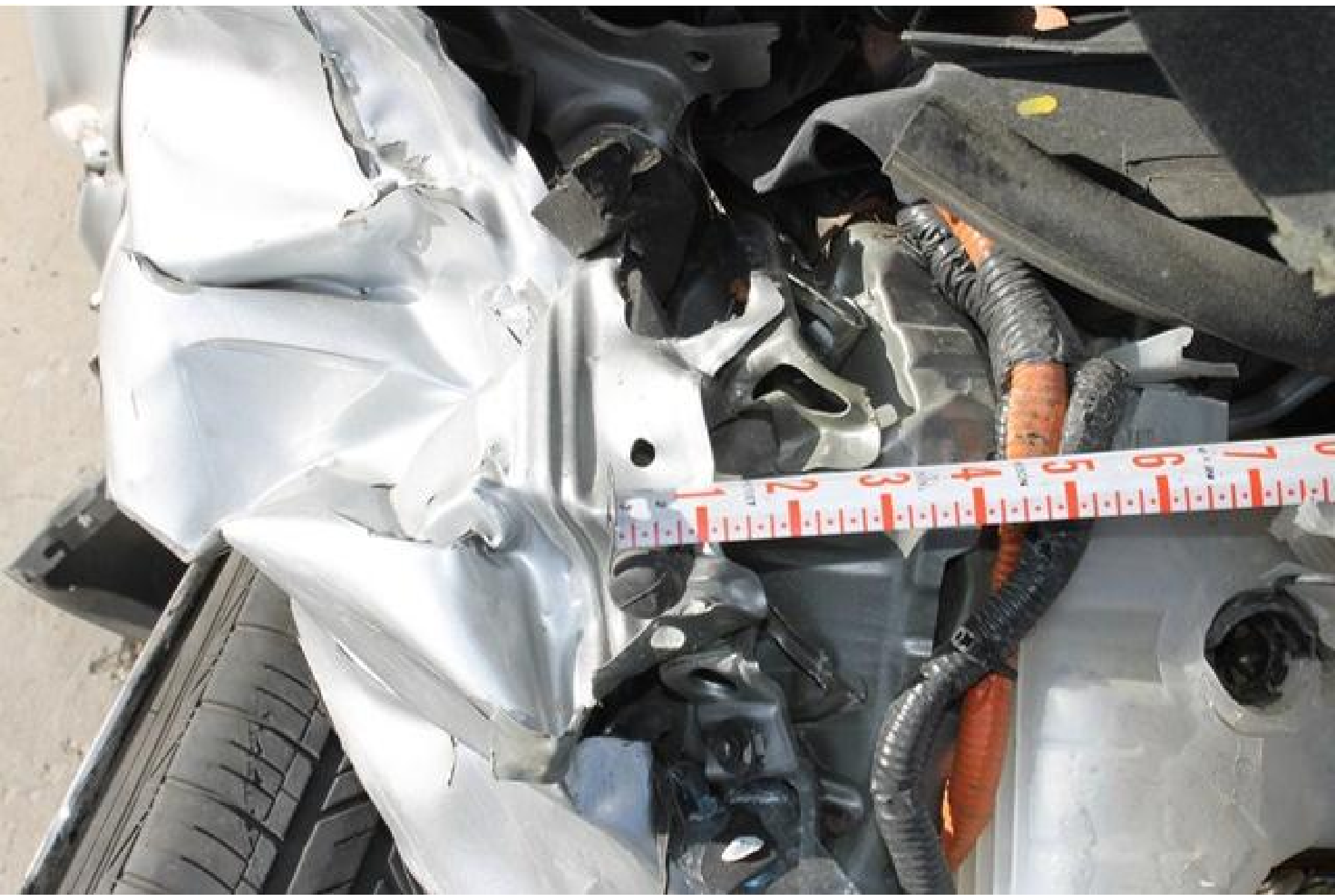
















































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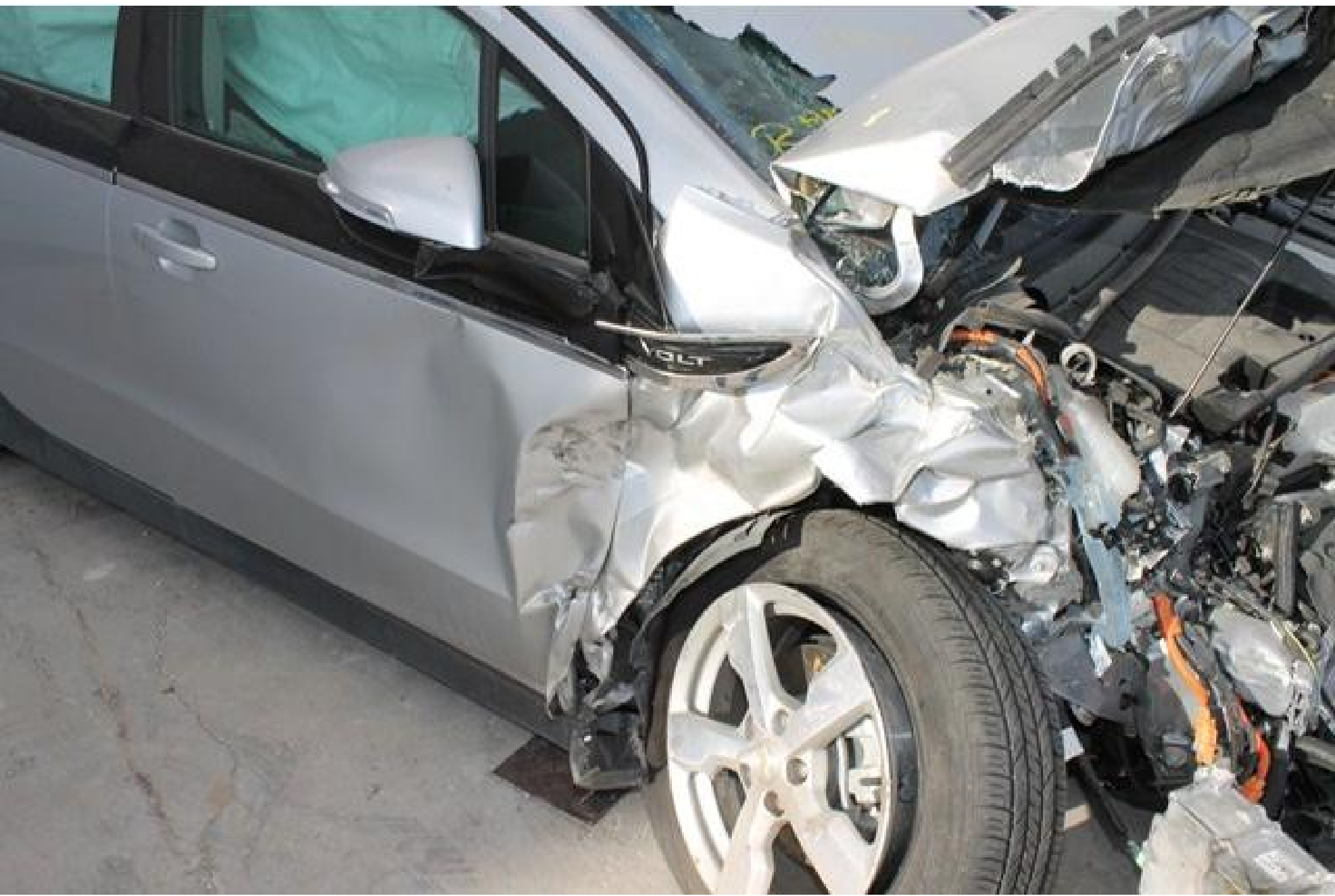




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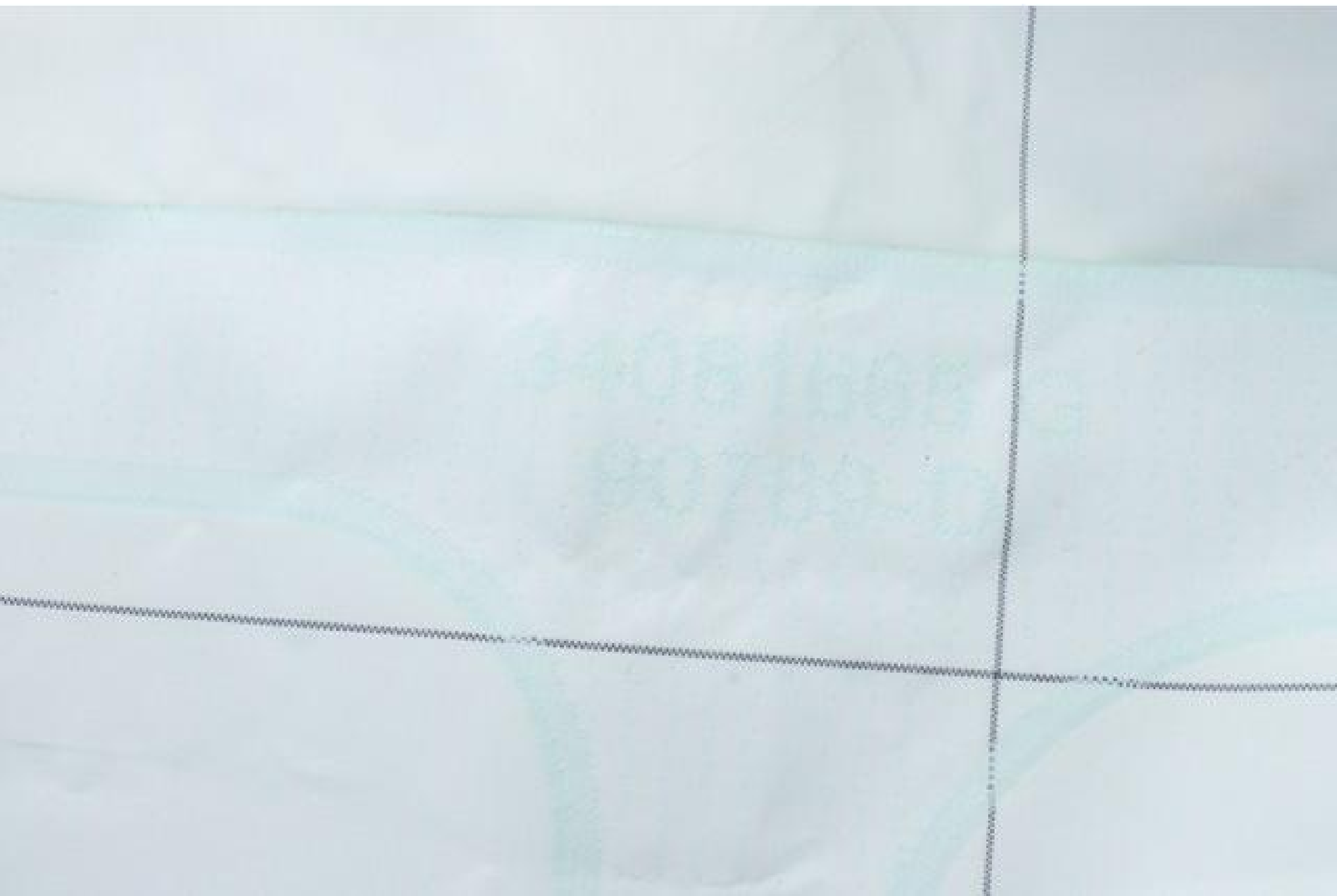












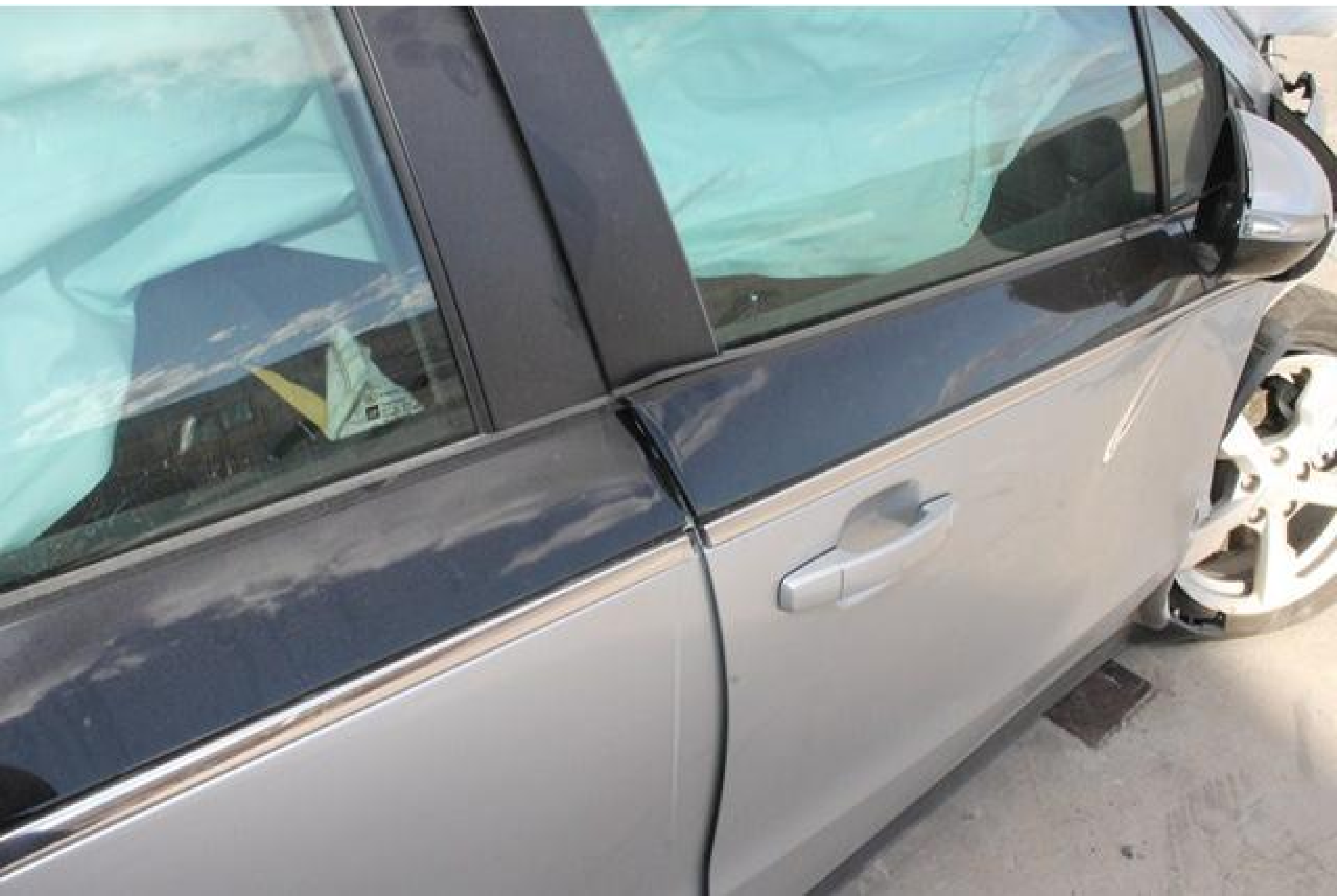




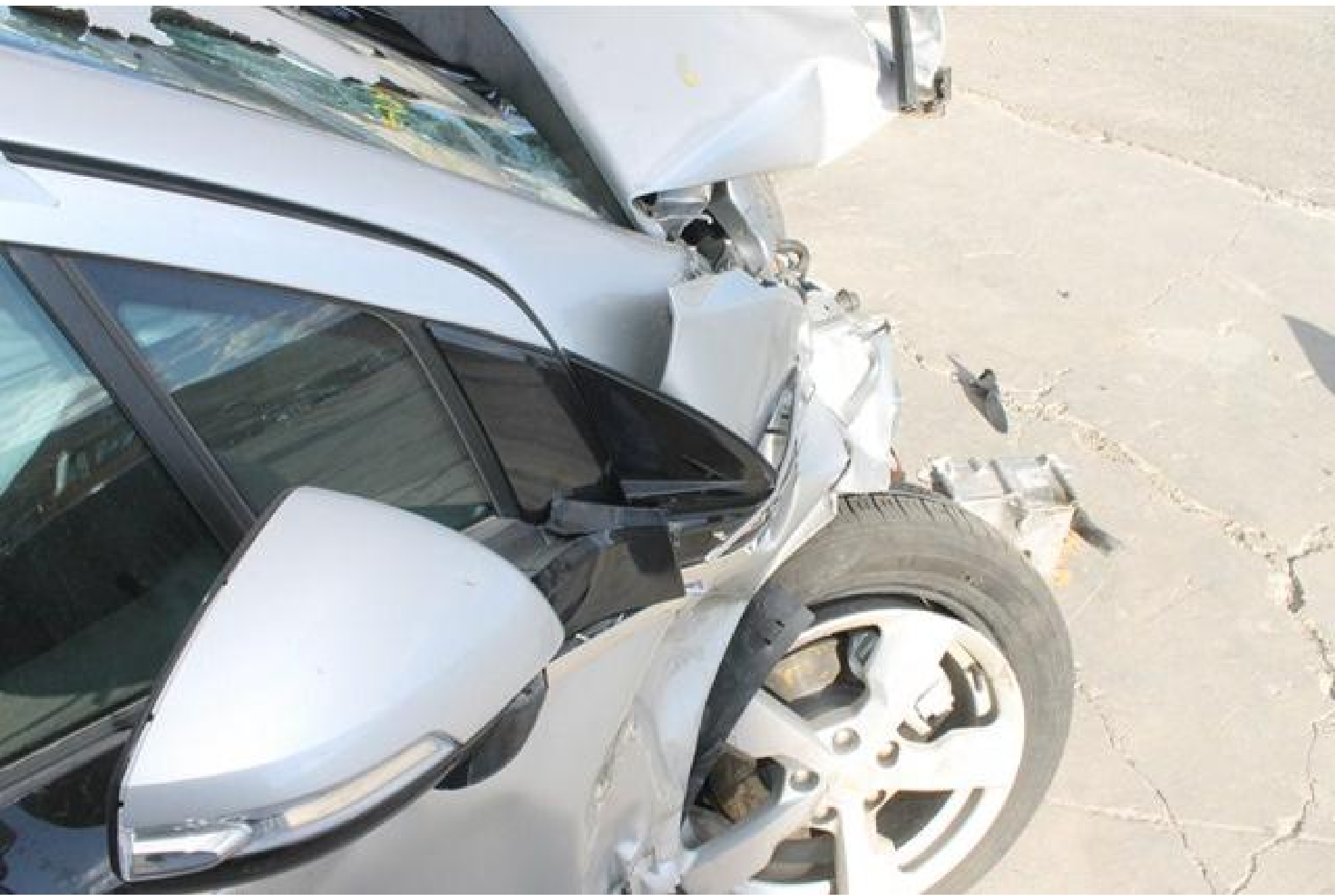


















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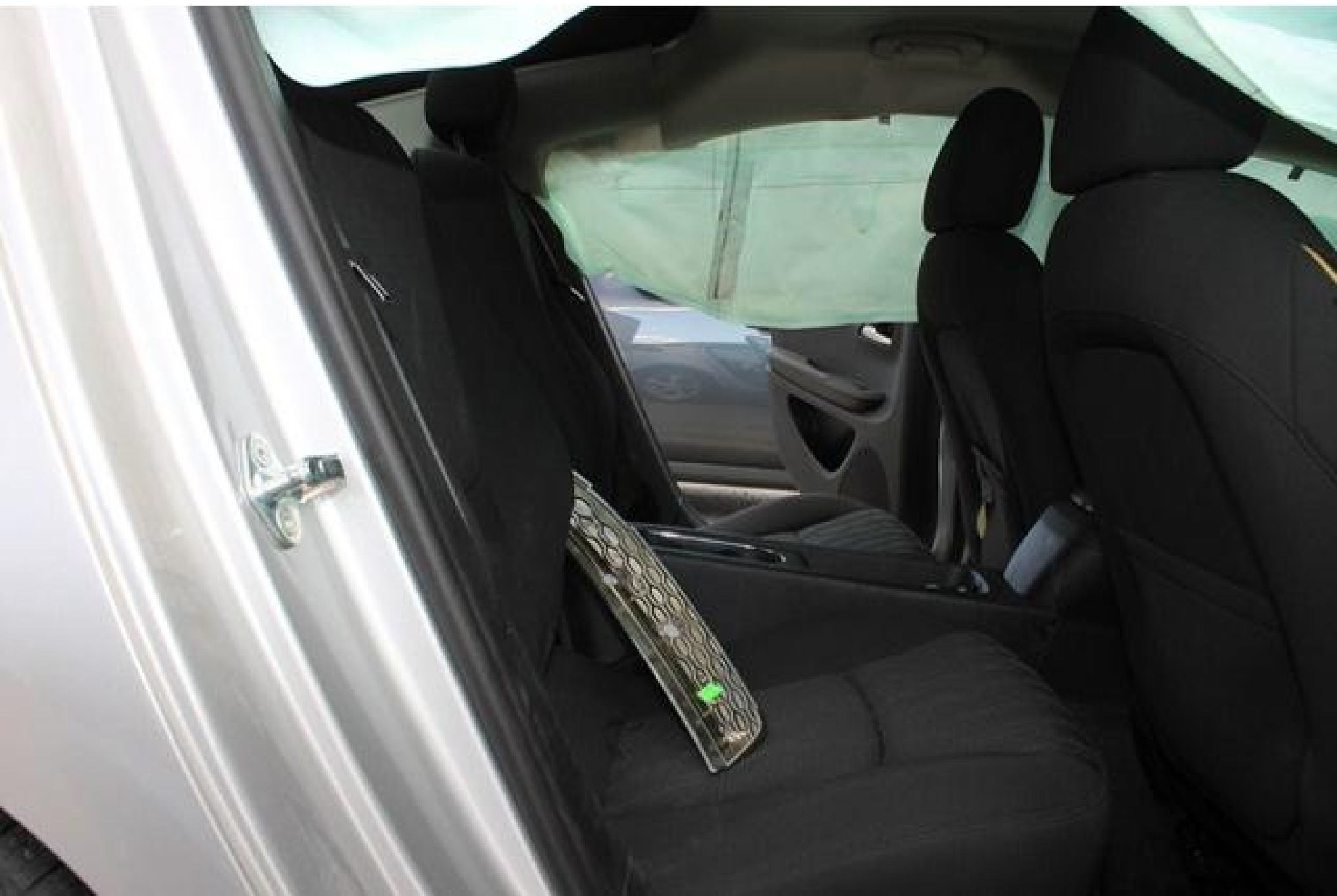
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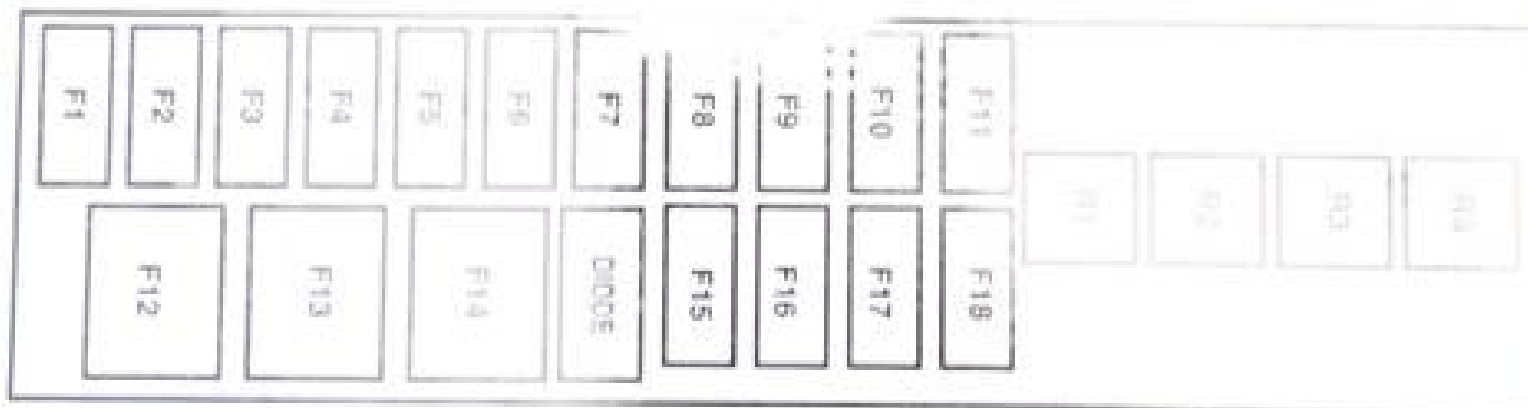








MADE IN USA  
DUNNS #80973364



F1 - 20A LTR  
F2 - 15A RDO  
F3 - 10A CLSTR  
F4 - 10A DISPLY  
F5 - 10A HVAC  
F6 - 10A AIRBAG  
F7 - 15A DLC1/DLC2

F8 - EMPTY  
F9 - EMPTY  
F10 - 15A BCM/EXT LIGHTS  
F11 - 15A LT HDLP  
F12 - EMPTY  
F13 - EMPTY  
F14 - EMPTY  
DIODE - EMPTY

F15 - 20A AP0  
F16 - EMPTY  
F17 - EMPTY  
F18 - EMPTY  
R1 - 40A RAP RELAY  
R2 - EMPTY  
R3 - EMPTY  
R4 - EMPTY



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**⚠ WARNING**


**EVEN WITH ADVANCED AIR BAGS**

- Children can be killed or seriously injured by the air bag.
- The back seat is the safest place for children.
- Never put a rear-facing child seat in the front.
- Always use seat belts and child restraints.
- See owner's manual  for more information about air bags.



**⚠ AVERTISSEMENT**

**MÊME AVEC DES SACS GONFLABLES INTELLIGENTS**


- Les enfants peuvent être tués ou gravement blessés par le sac gonflable.
- Le siège arrière est l'endroit le plus sûr pour les enfants.
- Ne jamais placer à l'avant un siège pour enfant faisant face à l'arrière.
- Toujours utiliser les ceintures de sécurité et les accessoires de retenue pour enfant.
- Voir le guide du propriétaire  pour plus d'informations à propos des sacs gonflables.



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**▲ WARNING**

**EVEN WITH ADVANCED AIR BAGS**

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**▲ AVERTISSEMENT**

**MÊME AVEC DES SACS GONFLABLES INTÉRIEURS**

- Les enfants peuvent être tués ou gravement blessés par le sac gonflable.
- Le siège arrière est l'endroit le plus sûr pour les enfants.
- Ne jamais placer à l'avant un siège pour enfant faisant face vers l'arrière.
- Toujours utiliser les ceintures de sécurité et les ensembles de retenue pour enfant.
- Voir le guide du propriétaire  pour plus d'informations sur les sacs gonflables.


- CHILDREN AND AIR BAGS**
- Children can be killed or seriously injured by the air bag.
  - The back seat is the safest place for children.
  - Never put a rear-facing child seat in the front.
  - Always use seat belts and child restraints.
  - See owner's manual  for more information about air bags.



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**MÊME AVEC DES SACS GONFLABLES INTELLIGENTS**

- Les enfants peuvent être tués ou gravement blessés par le sac gonflable.
- Le siège arrière est l'endroit le plus sûr pour les enfants.
- Ne jamais placer à l'avant un siège pour enfant faisant face à l'arrière.
- Toujours utiliser les ceintures de sécurité et les ensembles de retenue pour enfant.
- Voir le guide du propriétaire  pour plus d'information à propos des sacs gonflables.

**⚠ WARNING**

**EVEN WITH ADVANCED AIR BAGS**

- Children can be killed or seriously injured by the air bag.
- The back seat is the safest place for children.
- Never put a child riding child seat in the front.
- Always use seat belts and child restraints.
- The penalty is up to \$2,000 for each violation about air bags.




**⚠ AVERTISSEMENT**

**Même avec des sacs gonflables avancés**

- Les enfants peuvent être tués ou gravement blessés par le sac gonflable.
- Le siège arrière est l'endroit le plus sûr pour les enfants.
- Ne mettez jamais un enfant dans un siège bébé à l'avant.
- Utilisez toujours des ceintures de sécurité et des sièges enfant.
- Les amendes peuvent aller jusqu'à 2 000 \$ par infraction relative aux sacs gonflables.

**⚠ WARNING**

**EVEN WITH ADVANCED AIR BAGS**

- Children can be killed or seriously injured by the air bag.
- The back seat is the safest place for children.
- Never put a rear-facing child seat in the front.
- Always use seat belts and child restraints.
- See owner's manual  for more information about air bags.



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 1-800-4773

**⚠ AVERTISSEMENT**

**MÊME AVEC DES SACS GONFLABLES INTELLIGENTS**

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- Le siège arrière est l'endroit le plus sûr pour les enfants.
- Ne jamais placer à l'avant un siège pour enfant faisant face à l'arrière.
- Toujours utiliser les ceintures de sécurité et les ensembles de retenue pour enfant.
- Voir le guide du propriétaire  pour plus d'information à propos des sacs gonflables.


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**⚠ AVERTISSEMENT**

**MÊME AVEC DES SACS GONFLABLES INTELLIGENTS**

- Les enfants peuvent être tués ou gravement blessés par le sac gonflable.
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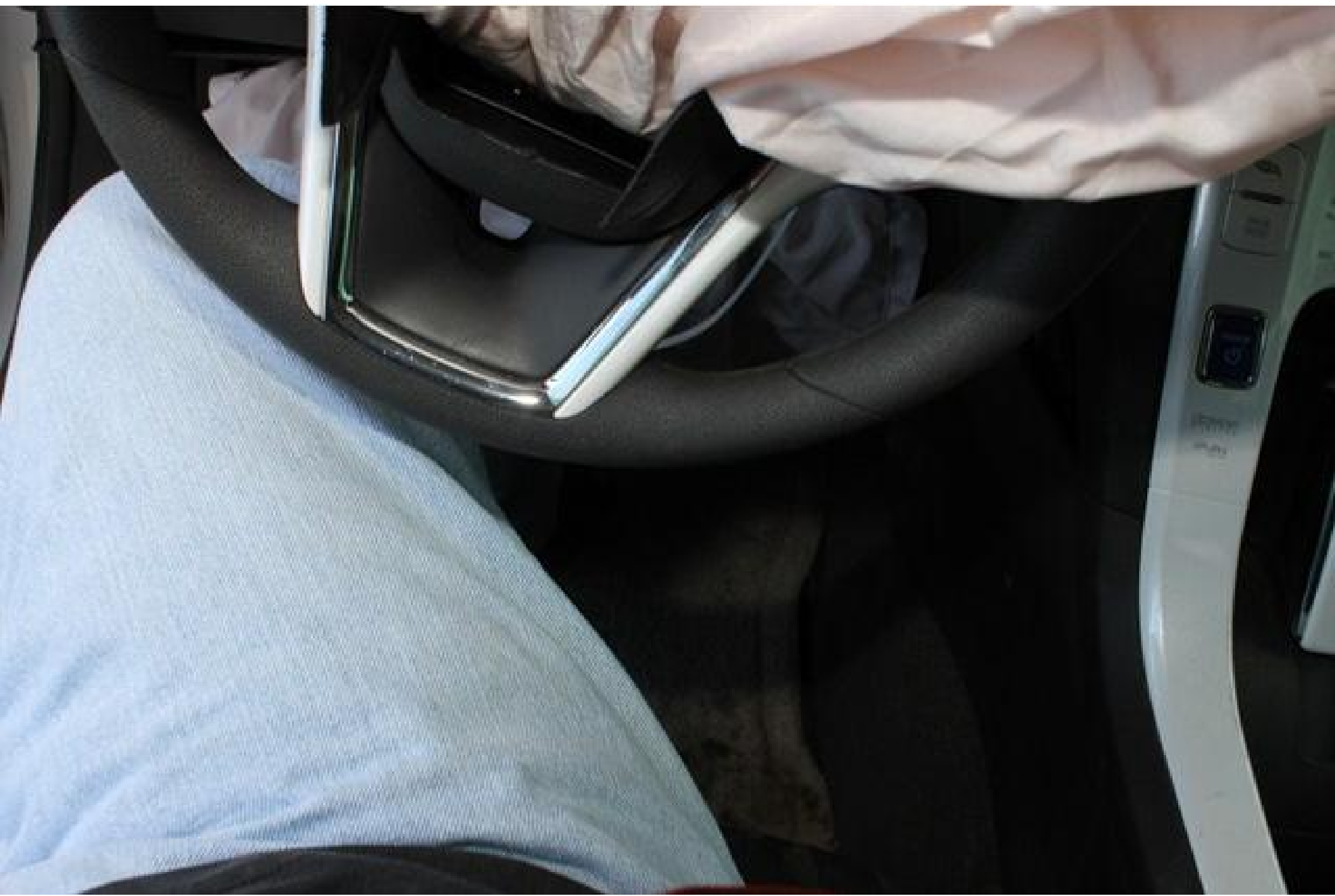
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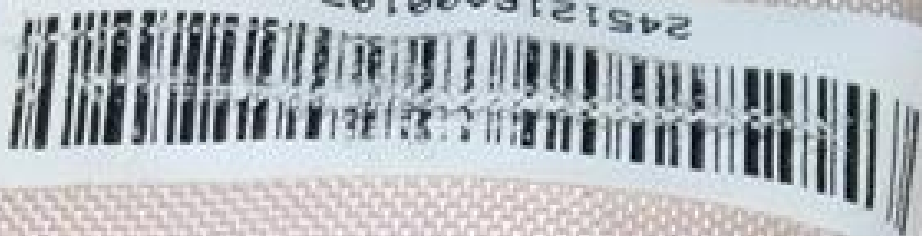








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PASSENGER AIR BAG



























































































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