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Jan 04

# Service / Safety-Emergency Disconnects

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There are several ways to shut down the [high voltage](#) (outside of the battery) in hybrid and electric vehicles. In an article to be released next week, I will cover the various [safety systems](#) within the vehicle that “should” shut down the high voltage and thoroughly explain the various safety, emergency and service disconnects that can be used by rescuers to isolate the high voltage to the battery.

In this training I will show the various locations where we can expect to [find service](#) and safety / emergency shut offs that can be used to isolate the power. Although there are reference manuals, erg's and programs like [CRS](#) that can help us quickly locate these components, I hope that this writing will [help agencies](#) without these resources.

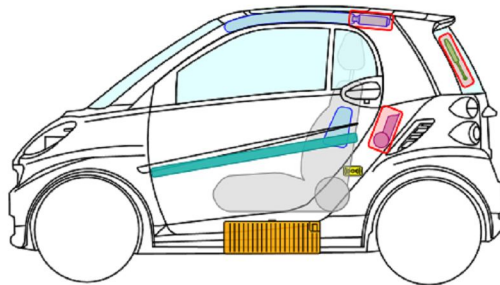
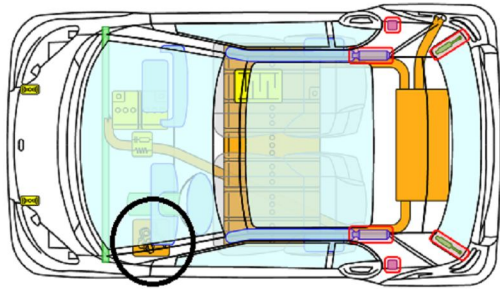
**Here are a few of the locations where we may find the Safety or Emergency cables / disconnects**

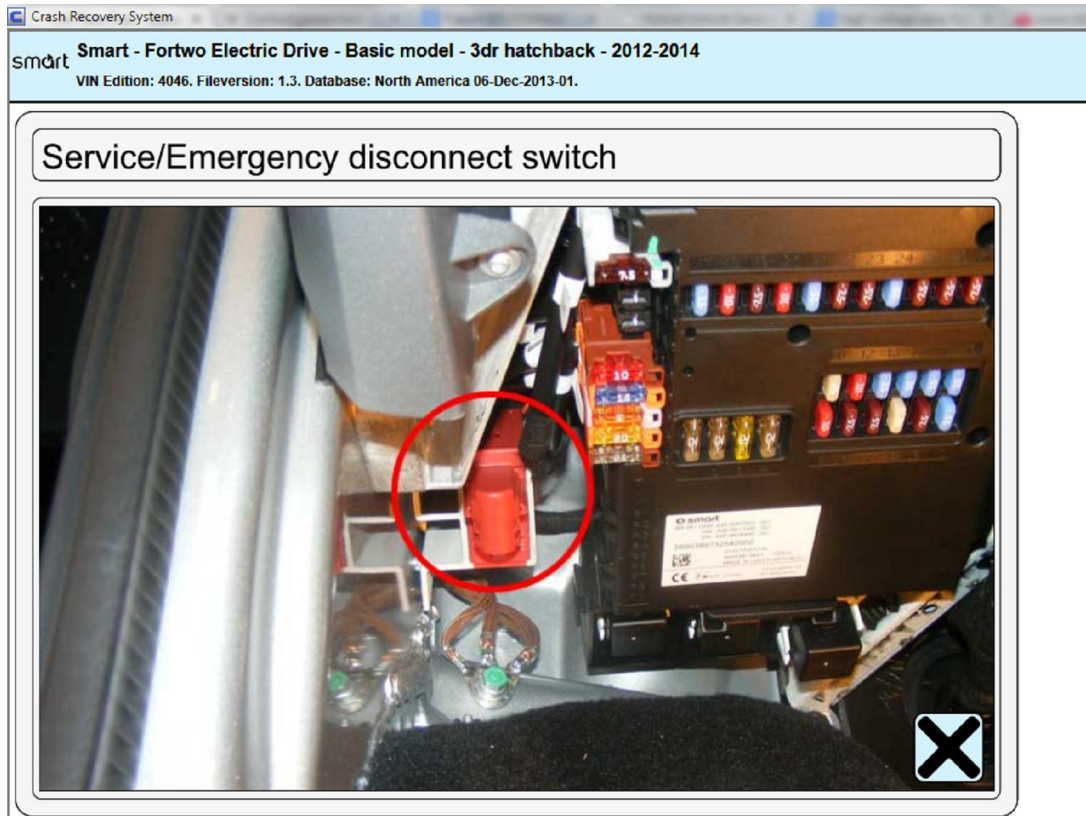
## Smart Car / 2012 – 2014

Crash Recovery System

Smart - Fortwo Electric Drive - Basic model - 3dr hatchback - 2012-2014

VIN Edition: 4046. Fileversion: 1.3. Database: North America 06-Dec-2013-01.





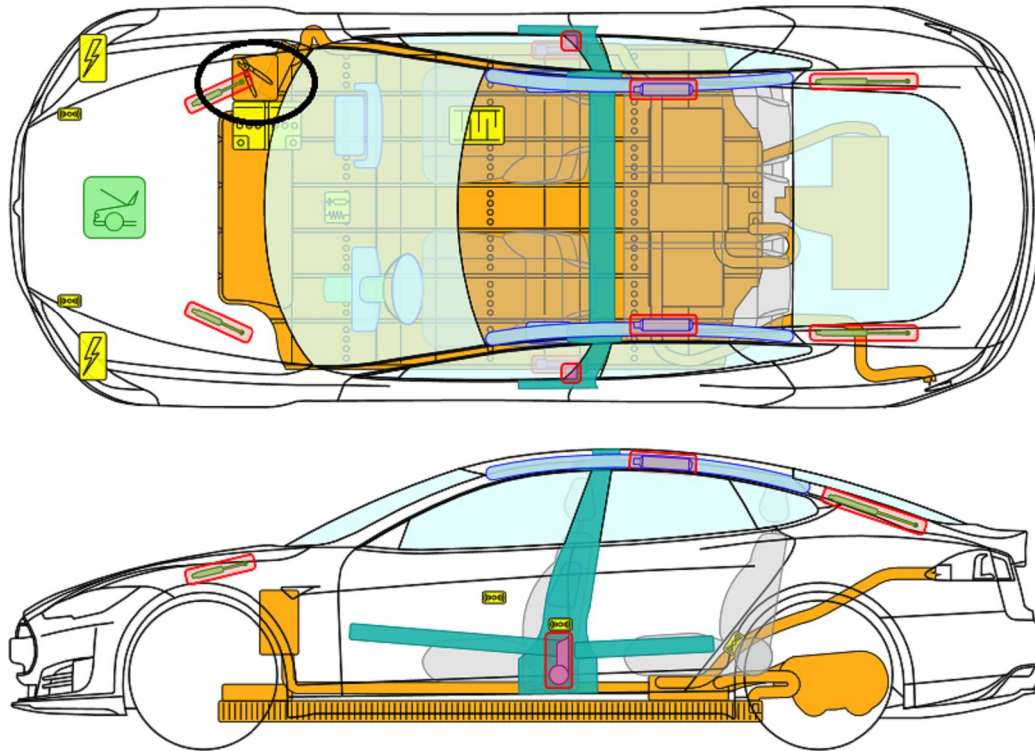
(Above) The [Smart Car](#) – In the first image I have circled the disconnect on the left side of the steering wheel. This is an uncommon location for a disconnect. In this case the orange plug is removed from the receptacle.

## Tesla Model S / 2012-2014

Crash Recovery System

**Tesla - Model S - Basic model - 4dr sedan - 2012-2014**

VIN Edition: 4046. Fileversion: 1.2. Database: North America 06-Dec-2013-01.





**Tesla - Model S - Basic model - 4dr sedan - 2012-2014**

VIN Edition: 4046. Fileversion: 1.2. Database: North America 06-Dec-2013-01.

**Emergency disconnect cable**

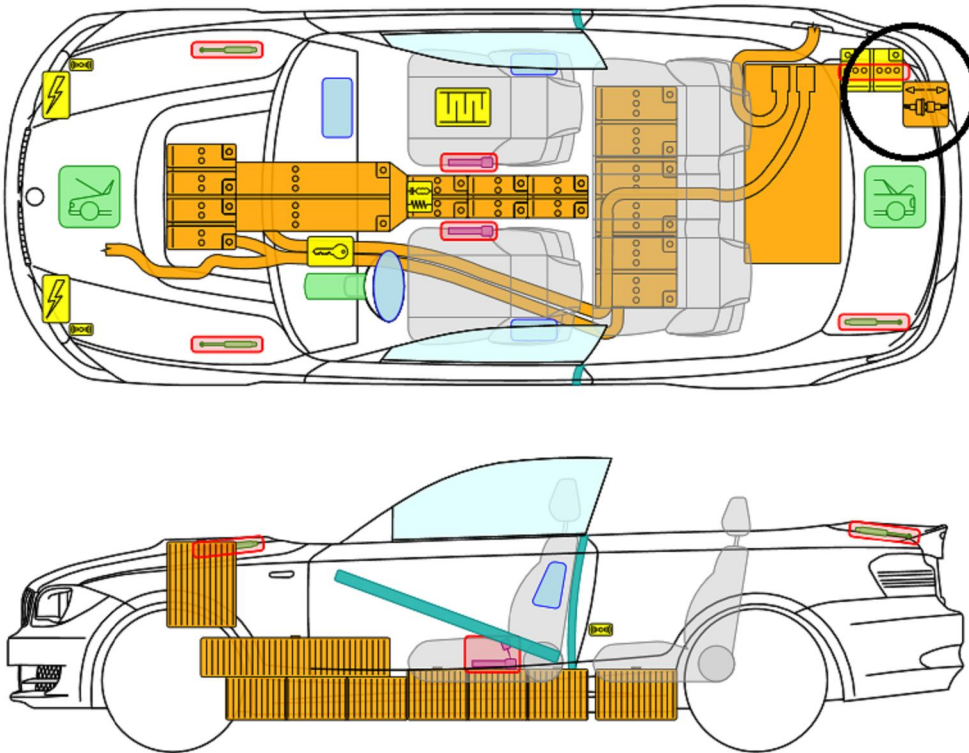
(Above) The Tesla Model S – In the first image I have circled the location of the disconnect. In this case the orange cable is cut to isolate the high voltage. When using the cable type disconnect, be sure to double cut the cable to avoid accidental re-connection.

## BMW Active E – 2012 -2014

Crash Recovery System

**BMW - Active E - Basic model - 2dr coupe - 2012-2014**

VIN Edition: 4046. Fileversion: 1.3. Database: North America 06-Dec-2013-01.





(Above) BMW Active E – In the [first picture](#) I have circled the location of the disconnect. In this case the orange plug is removed from it's receptacle. In this case the orange plug has a cap like cover that, when removed will isolate the power to the battery.

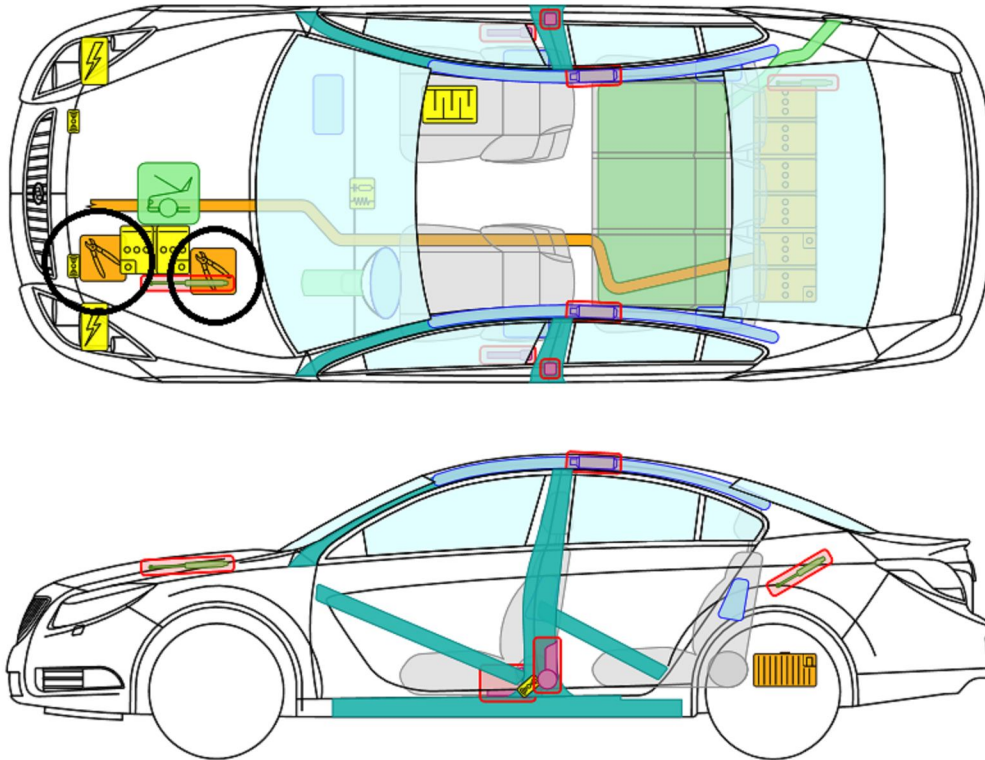
## Buick Regal EAssist – 2011 – 2014



Crash Recovery System

**Buick - Regal eAssist - 2.4 - 4dr sedan - 2011-2014**

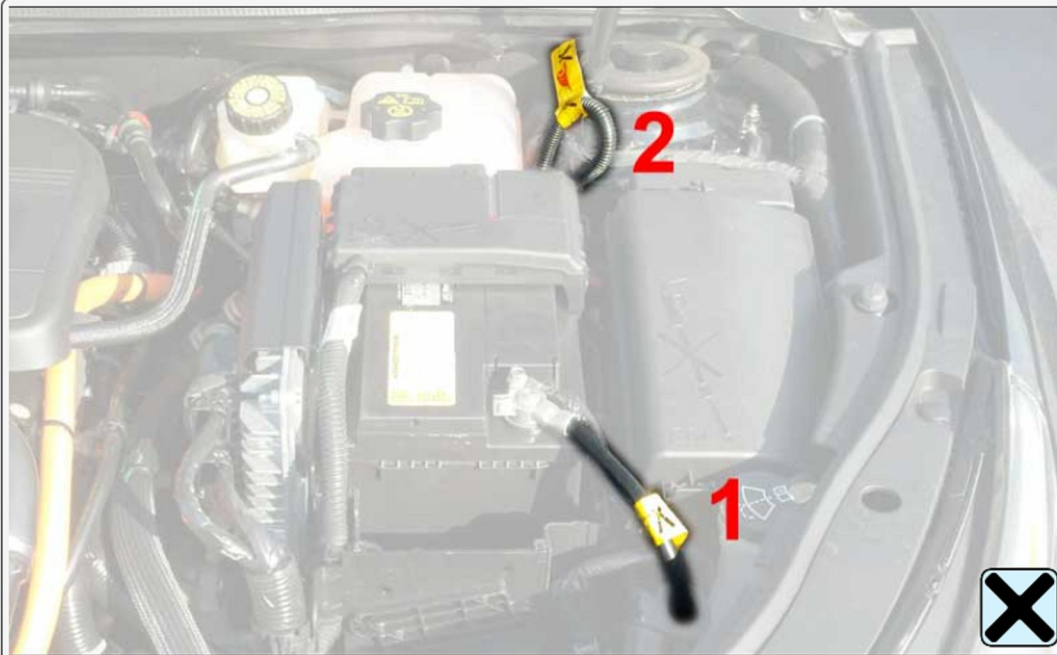
VIN Edition: 4046. Fileversion: 1.4. Database: North America 06-Dec-2013-01.



**Buick - Regal eAssist - 2.4 - 4dr sedan - 2011-2014**

VIN Edition: 4046. Fileversion: 1.4. Database: North America 06-Dec-2013-01.

### Service/Emergency disconnect switch



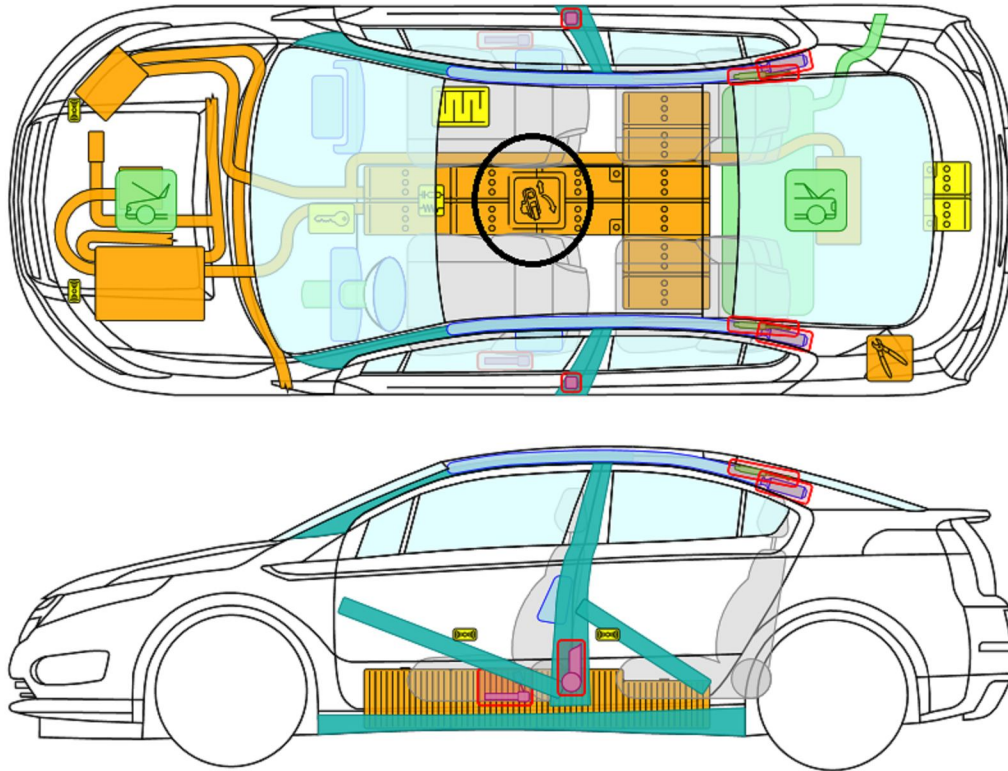
(Above) Buick Regal EAssist – In the first picture I have circled the locations of the disconnects. In this case the manufacturer is recommending that the emergency cable and the 12V battery cable both be cut for shutdown. As rescuers we know to always follow this guidance and cut the 12V battery cables as common practice at every incident.

## Chevy Volt – 2010 – 2014

Crash Recovery System

**Chevrolet - Volt - Voltec - 5dr hatchback - 2010-2014**

VIN Edition: 4046. Fileversion: 1.7. Database: North America 06-Dec-2013-01.



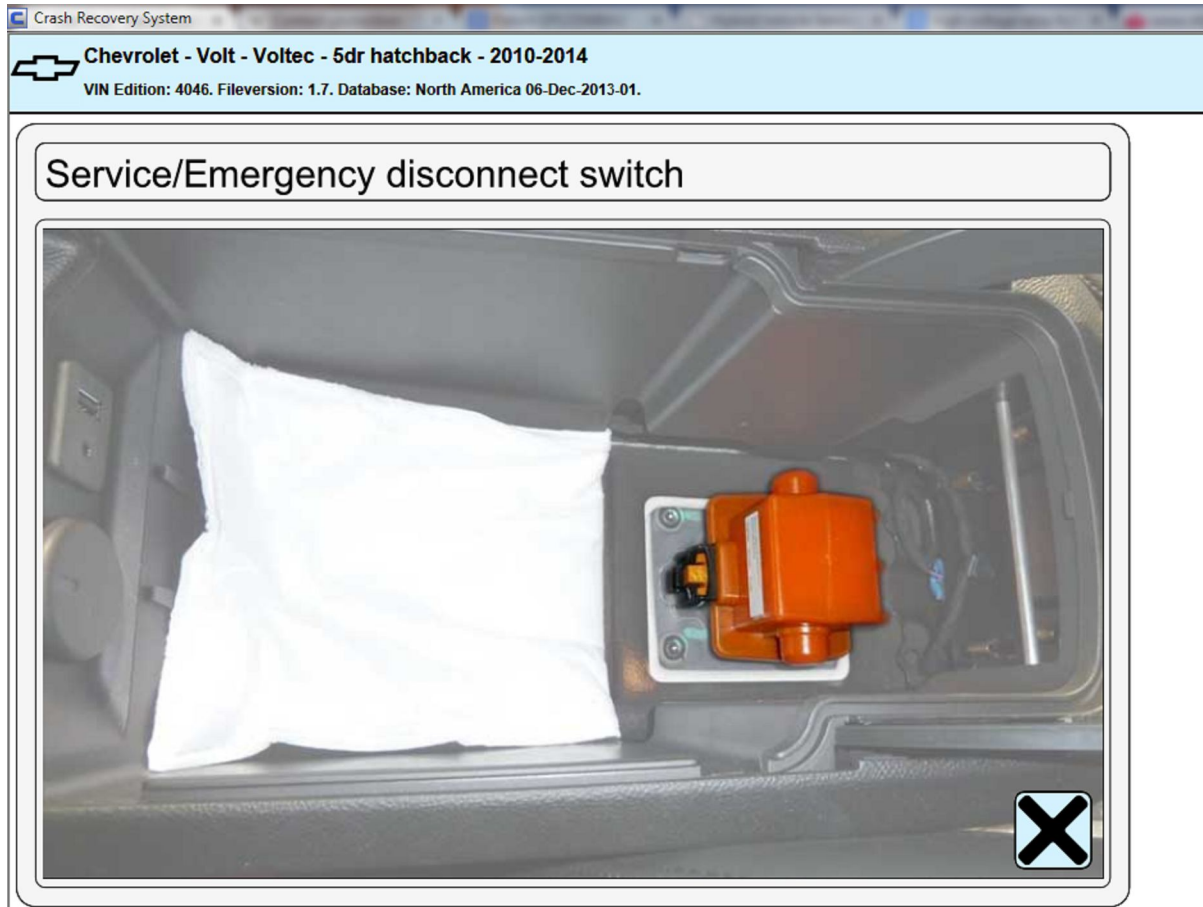
Crash Recovery System

**Chevrolet - Volt - Voltec - 5dr hatchback - 2010-2014**

VIN Edition: 4046. Fileversion: 1.7. Database: North America 06-Dec-2013-01.

### Service/Emergency disconnect switch





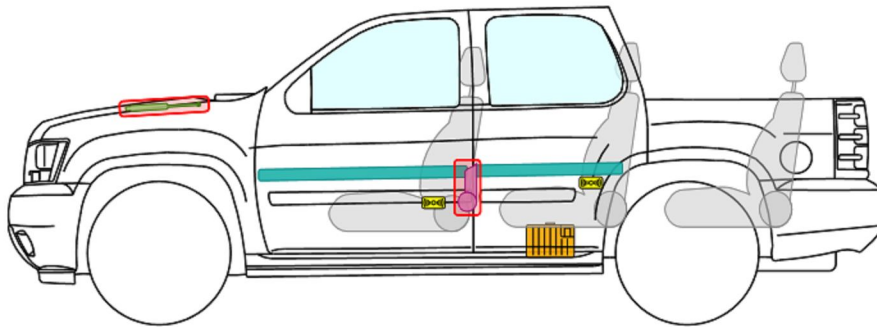
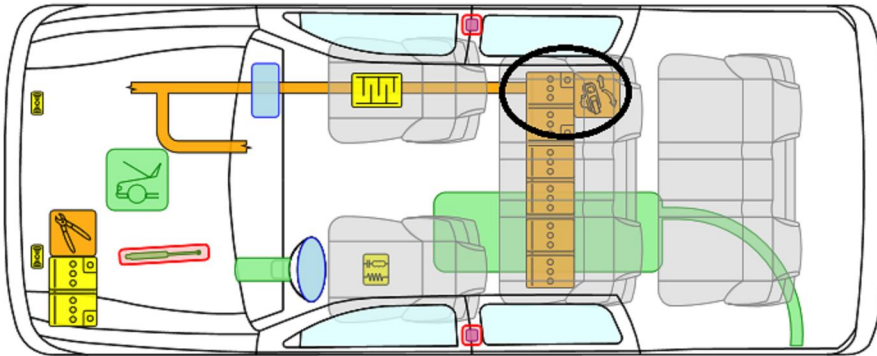
## Chevy Tahoe – 2008 – 2014



Crash Recovery System

**Chevrolet - Tahoe Hybrid - 6.0 V8 - 5dr SUV - 2008-2014**

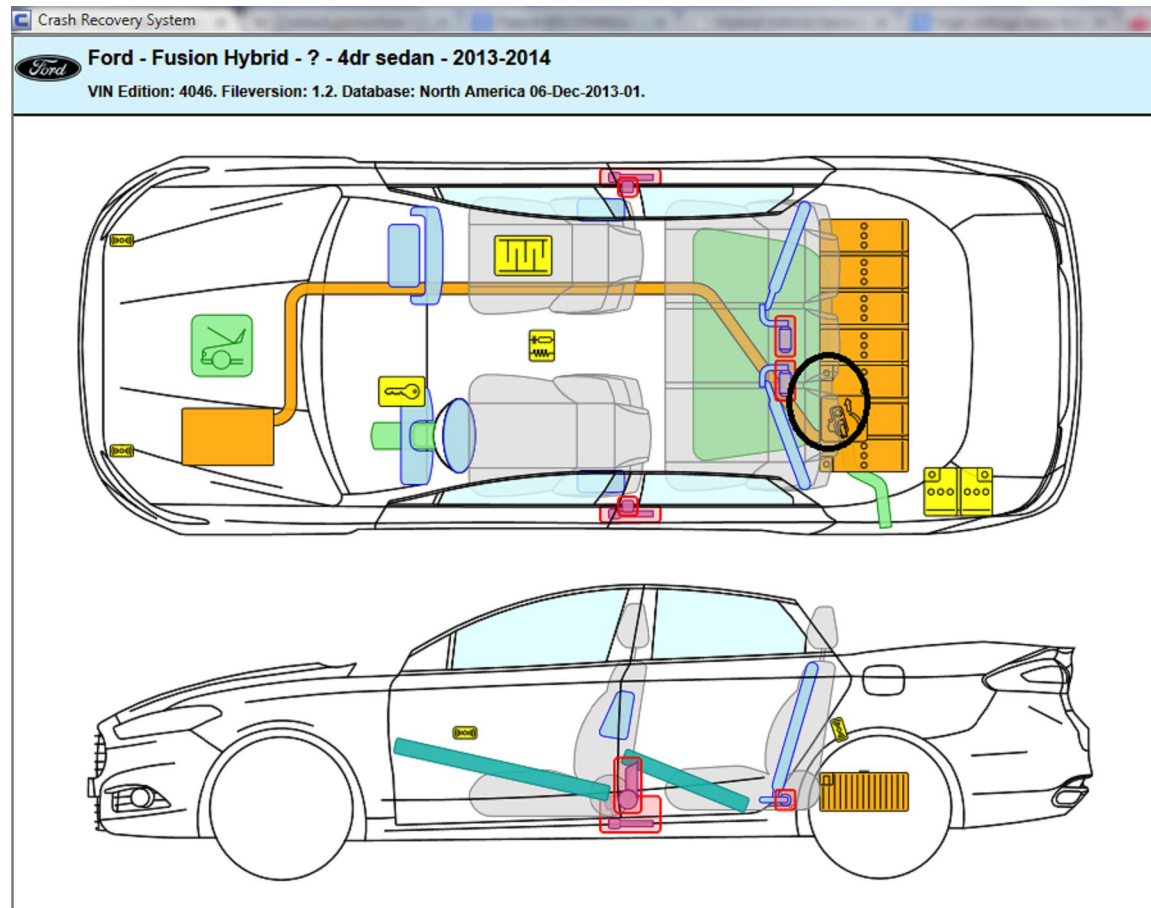
VIN Edition: 4046. Fileversion: 1.4. Database: North America 06-Dec-2013-01.

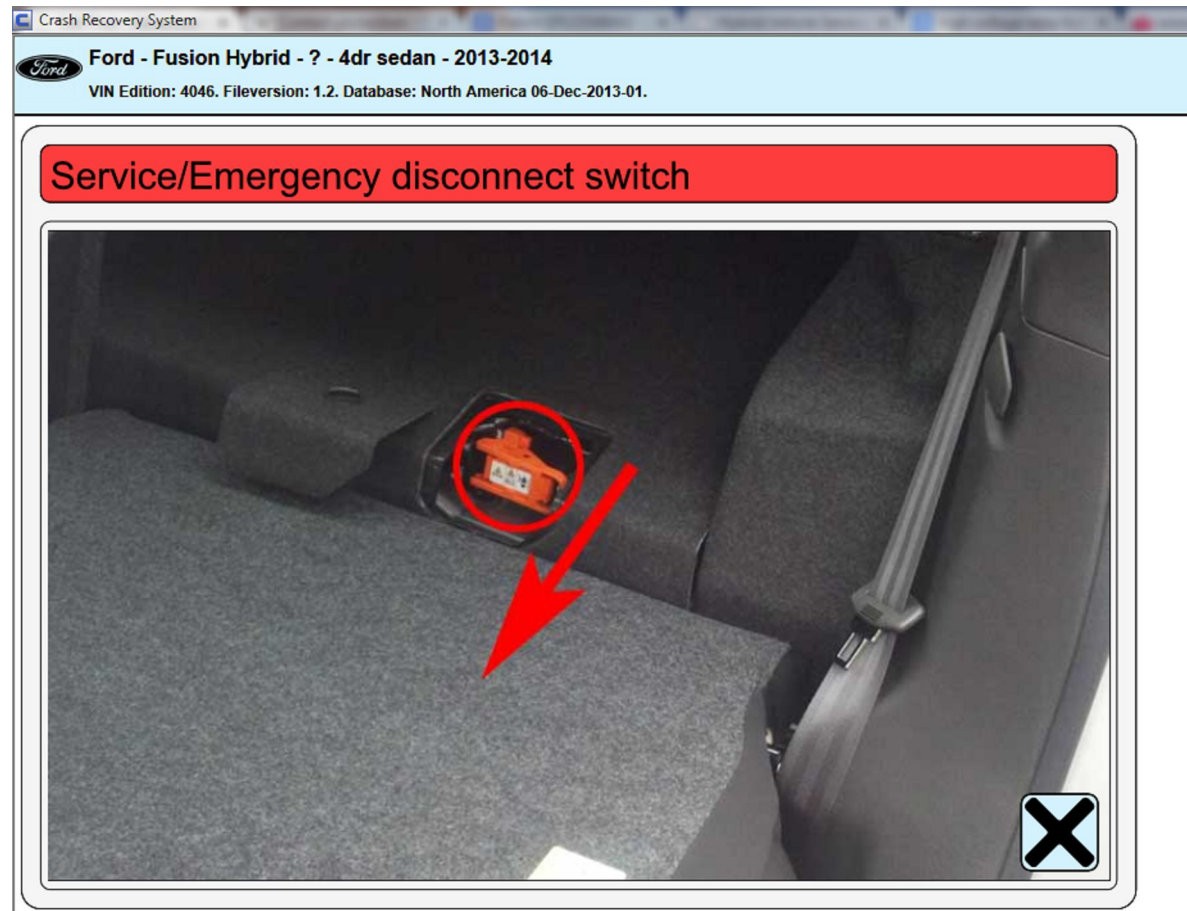




(Above) Chevy Tahoe – In the first picture I have circled the location of the disconnect. In this case the upholstery on the side of the back seat is stripped away to locate the disconnect. The Orange disconnect is then removed by lifting the handle up, down then out. This is a very common location for the disconnect on a SUV type of hybrid.

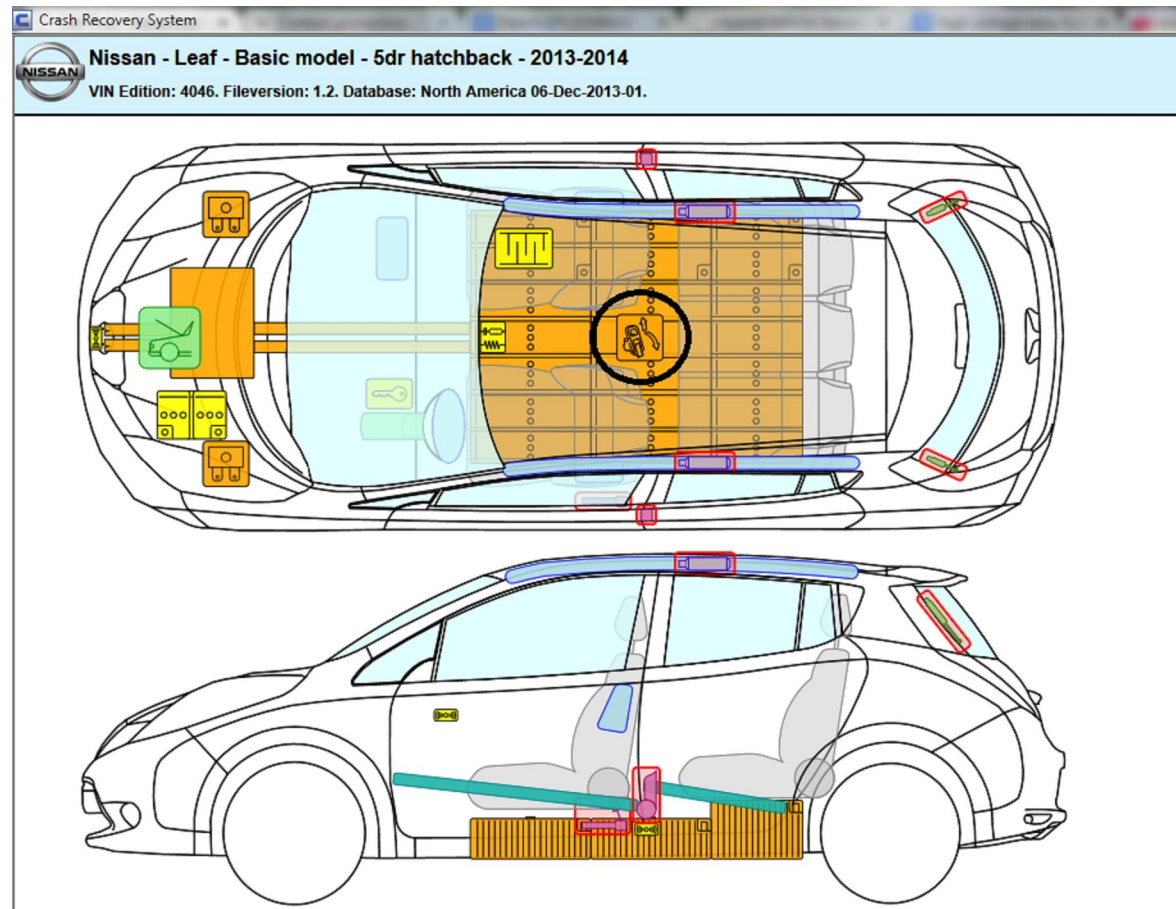
## Ford Fusion – 2013 2014



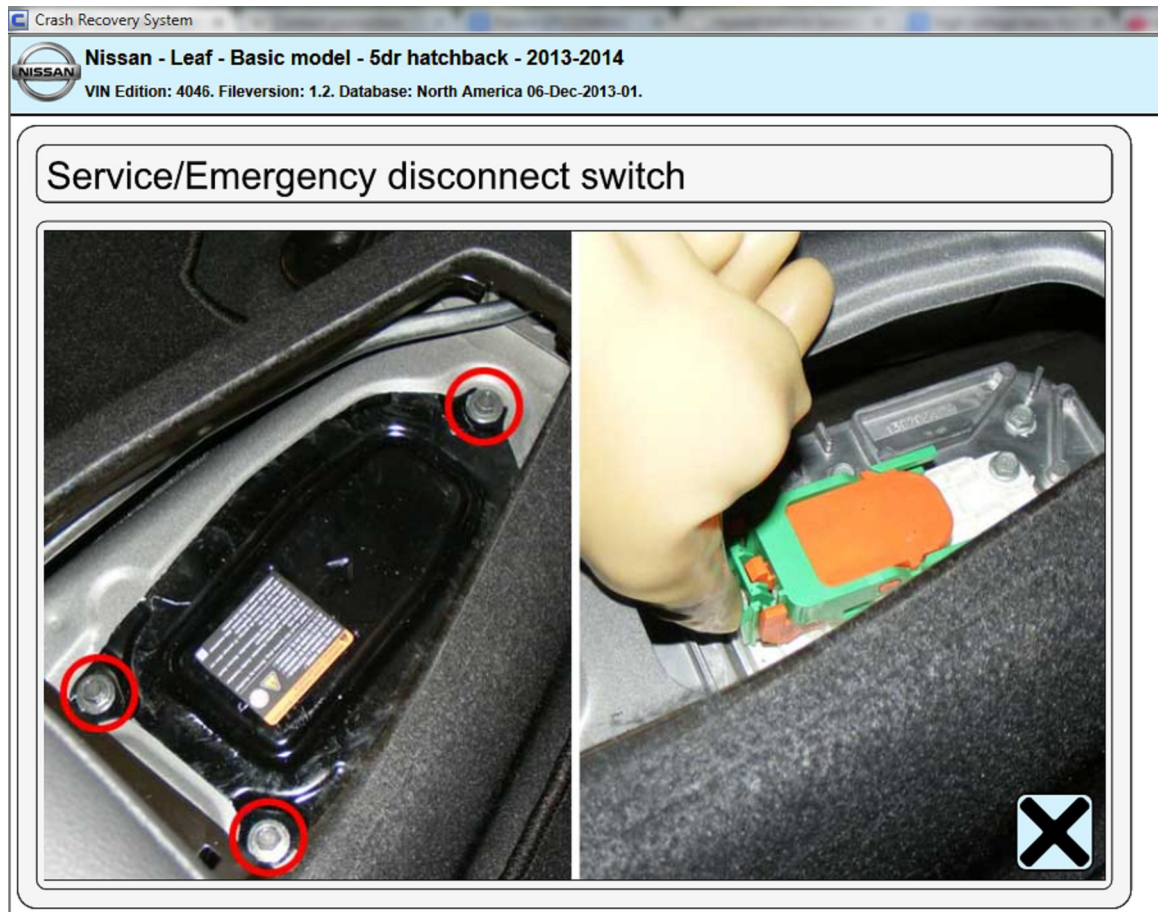


(Above) Ford Fusion – In the first picture I have circled the location of the disconnect. In this case the disconnect would be very challenging to access if the rear seat back was in the upright position

## Nissan Leaf – 2010 2014







(Above) Nissan Leaf— In the first picture I have circled the location of the disconnect. In this case the upholstery in the center

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