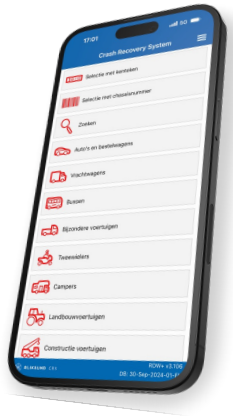


The CIP is a training programme for the THV instructors of the Dutch Safety Regions. This long-running programme supports the instructors in using the CRS system, both for operational deployment and for safely training technical rescue with vehicles.

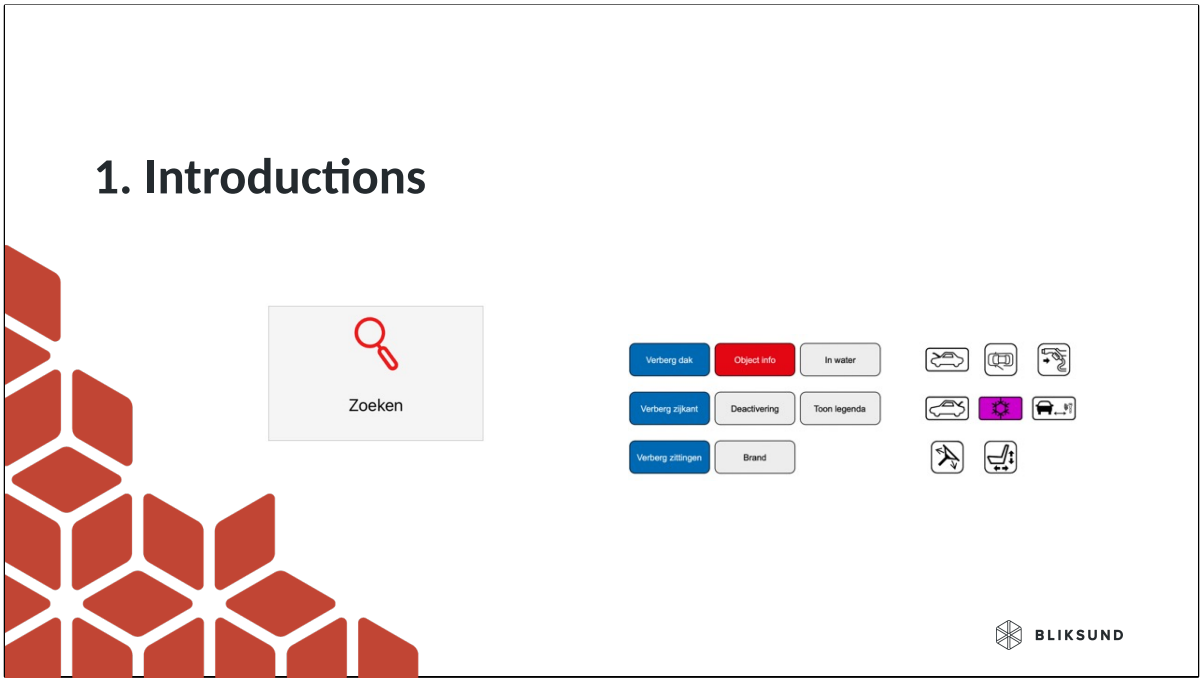
CIP Programme 2026

1. Introductions, learning questions and goals
2. Updates Bliksund CRS
3. Vehicle fires and batteries
4. Material strength
5. Agricultural and construction vehicles
6. New(s) in the CRS
7. Regional and national publications
8. Practising with the CRS
9. Learning from incidents.



BLIKSUND

Briefly name the different chapters we will be covering.

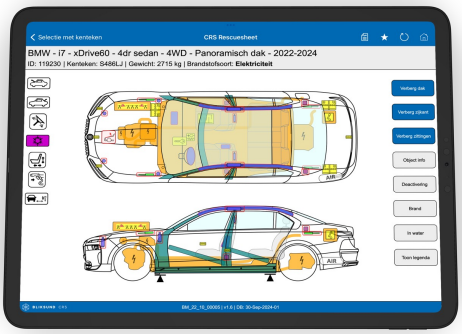


Introductions

Get to know each other and gauge the group's knowledge and learning questions for this training.

Write the learning questions on a flip chart or board and make sure they are addressed during the presentation. At the end of the presentation, check back against these learning questions: have all the questions been covered?

1.1 Specific questions about the Crash Recovery System?



BLIKSUND

Introductions

Get to know each other and gauge the group's knowledge and learning questions for this training.

Write the learning questions on a flip chart or board and make sure they are addressed during the presentation. At the end of the presentation, check back against these learning questions: have all the questions been covered?

1.2 CIP goals 2026

It is a CRS user training in which:

- The use and capabilities of the CRS are applied,
- The latest updates to the CRS system are explained,
- The CRS information is translated into practice,
- The presentation and activities are handed over to the CIP participants.



BLIKSUND

Briefly name the different goals; emphasise that this is a user training: using the CRS is the practice.

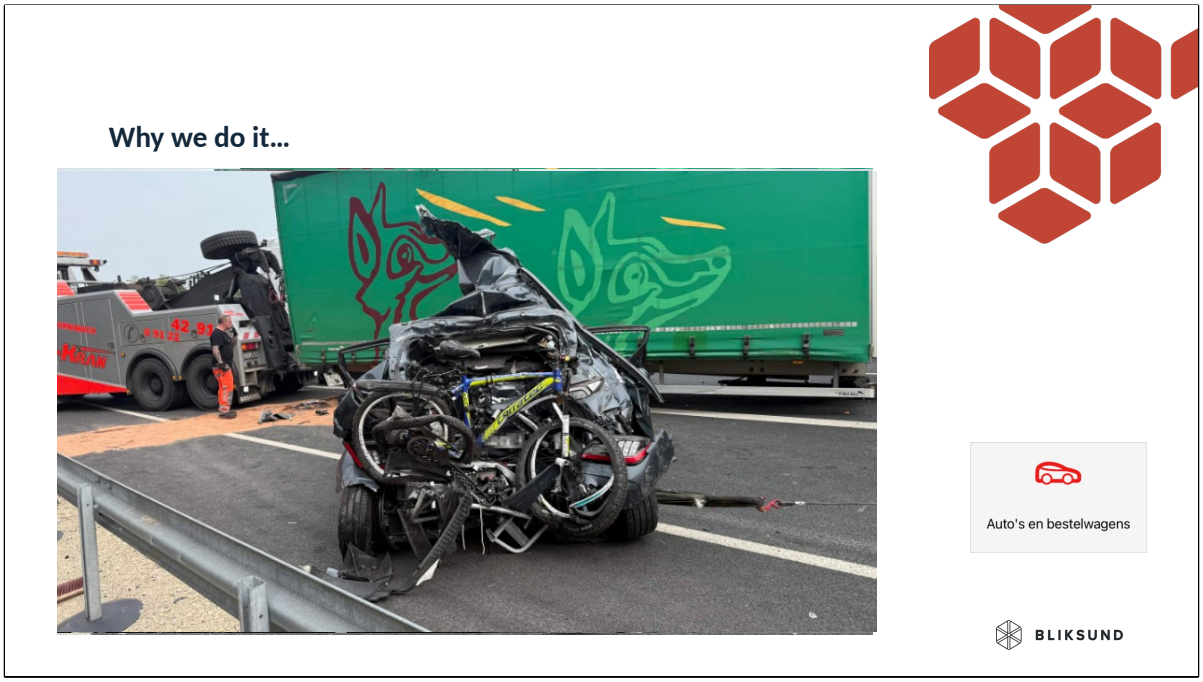


Photo 1: In the German state of Bavaria, a serious traffic accident occurred involving a car and two lorries.
Two people were seriously injured.

The car drove under the semi-trailer of a lorry weighing several tonnes. The driver of the car and the passenger were injured and taken to the emergency department. The passenger's condition was reported to be critical.

According to Bild, on Tuesday afternoon the car collided with a lorry that was stationary at a construction site on the A6 motorway near Waikersreuth (Bavaria).

Another lorry then crashed into the back of the car,

pushing it under the semi-trailer of the crashed lorry.

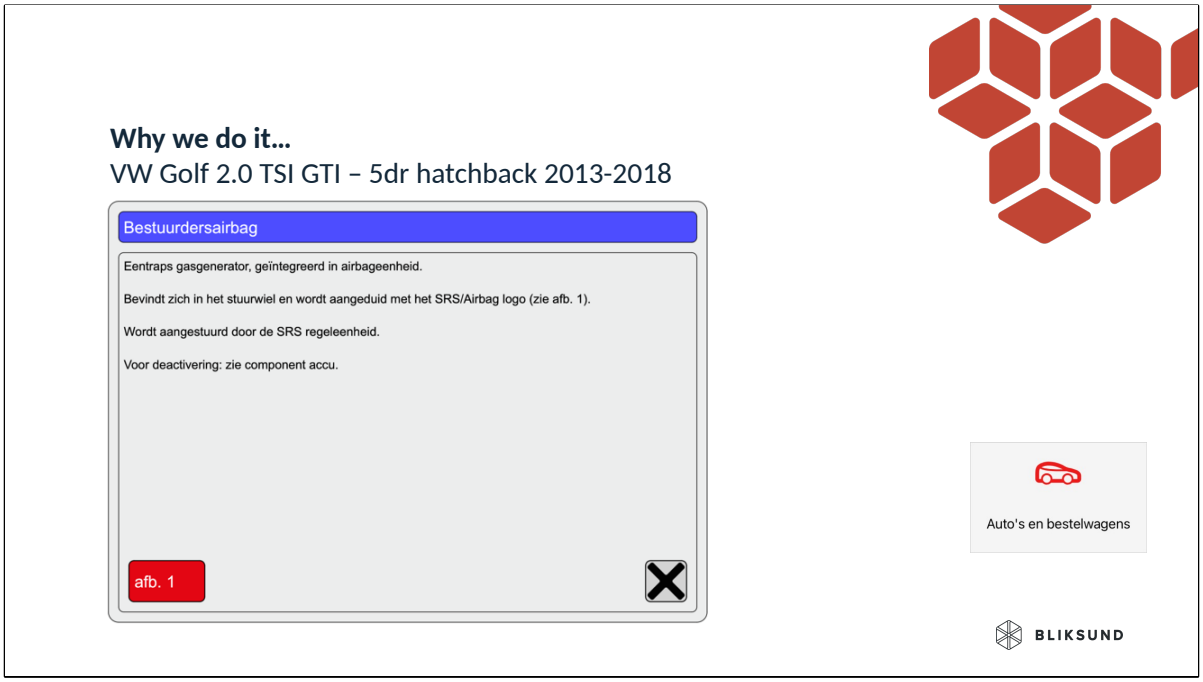


Photo 2: VW Golf (X-683-TL) driving far too fast in slightly freezing weather. At the first small tree (15 cm thick), which the Golf cut clean in half, all the airbags deployed; by the second tree, almost a metre in diameter, the airbags were already spent...

The second photo shows the Golf in question and the third printout explains the steering wheel and passenger airbags: SINGLE-STAGE airbags. A two-stage airbag also deploys only once; this depends on the vehicle's speed. Either 1 or 2 charges at the same time; the more charges, the sooner the airbag is fully deployed.

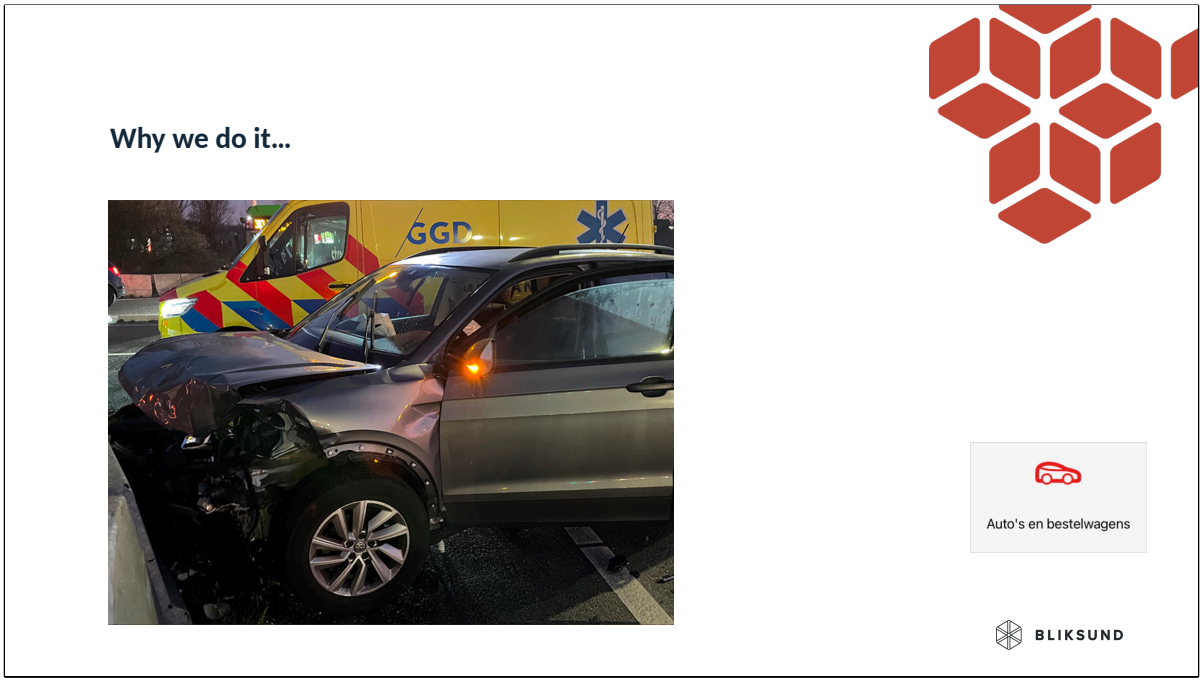


Photo 3: VW T-Roc with a supposed exemption for red lights…

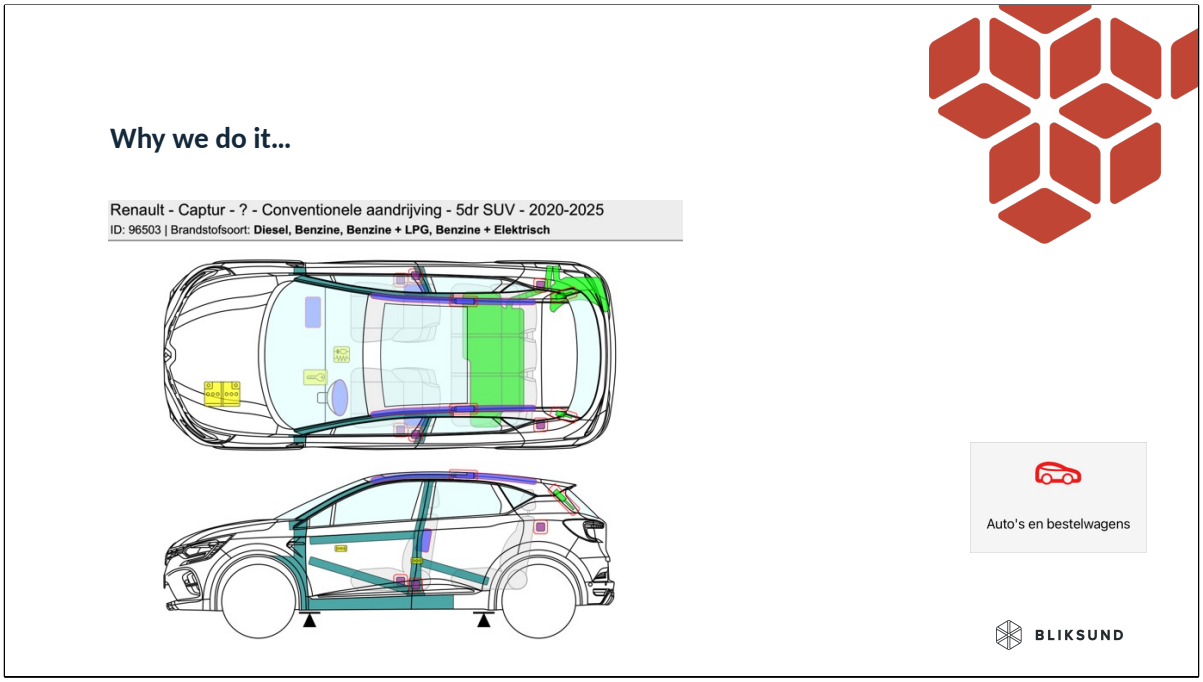


Photo 4: N-072-KP Renault Captur PHV 160 Initiale Paris (belongs to the accident in photo 3): a pity this Renault was the victim… The woman had to be freed by removing the B-pillar.

Assignment: look up the Renault Captur 2020-2025 and ask what you need to take into account in a side collision?

- The material is very strong; consider using the heaviest cutter, cut across the material and don't make the tips of the cutter cut through the material, as that is very difficult.

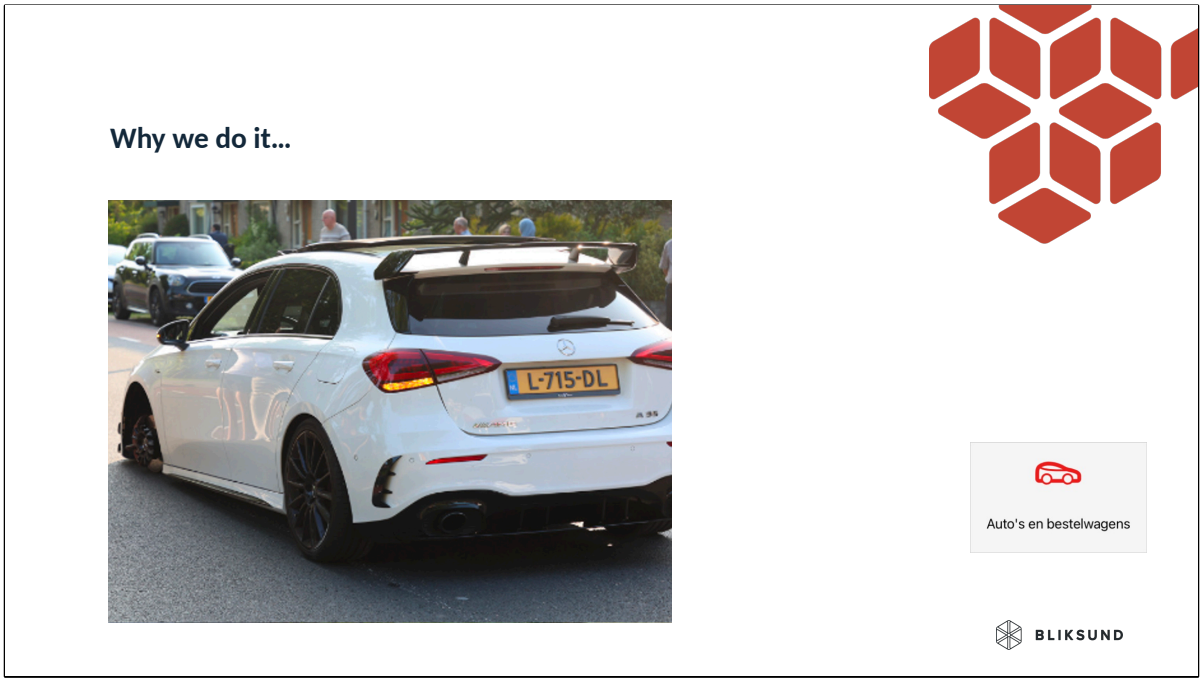
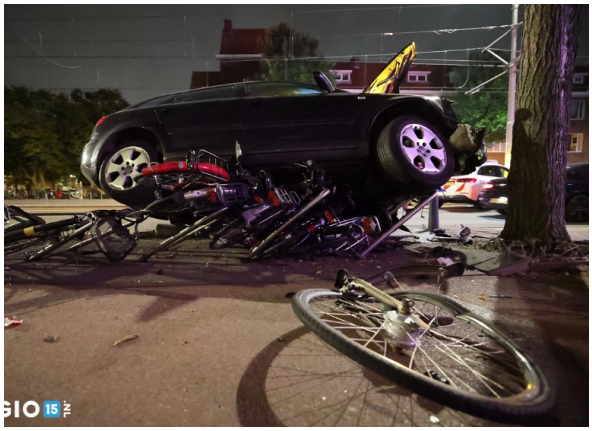


Photo 5: MB A-Class A 35 AMG 2018-2022. Or you take the speed bump so fast that you land without both front wheels..

Why we do it...



Auto's en bestelwagens

BLIKSUND

Car into a tree, Gouverneurlaan The Hague, August 2025, also took out 10 bicycles. The driver fled, and the car smelled strongly of weed….

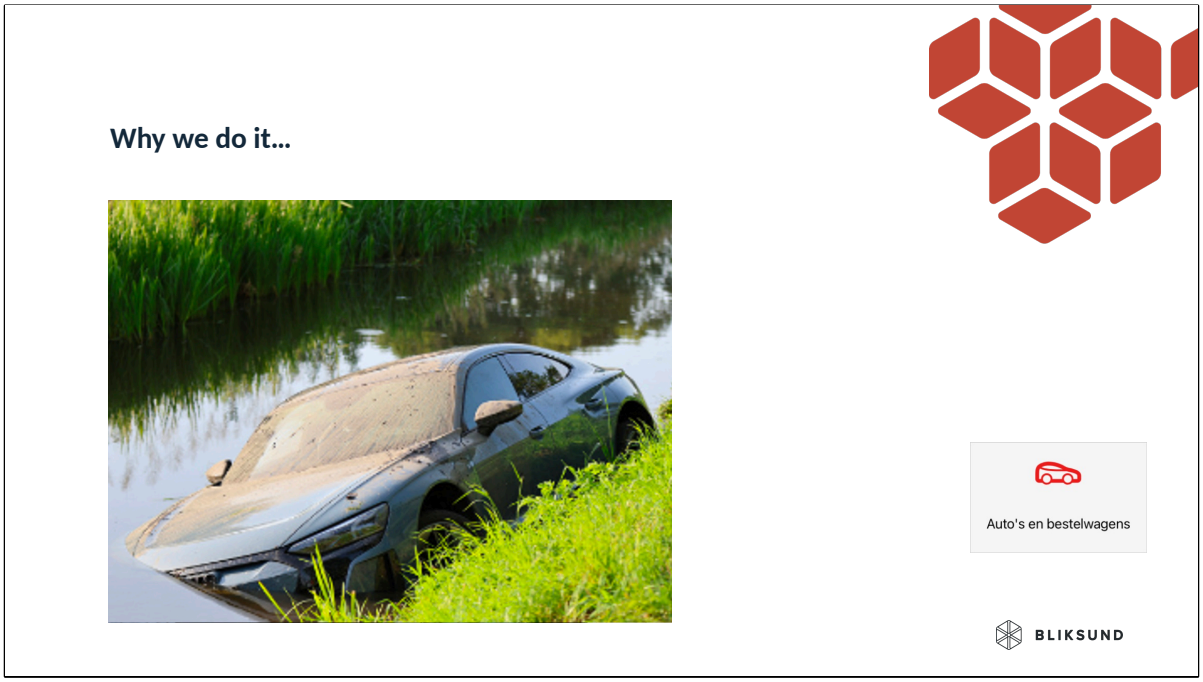


Photo 6: Audi e-tron. Something to do with speed and watching where you drive..

Assignment: look up an Audi e-tron and see what information is given for such a vehicle in water: what should you do?



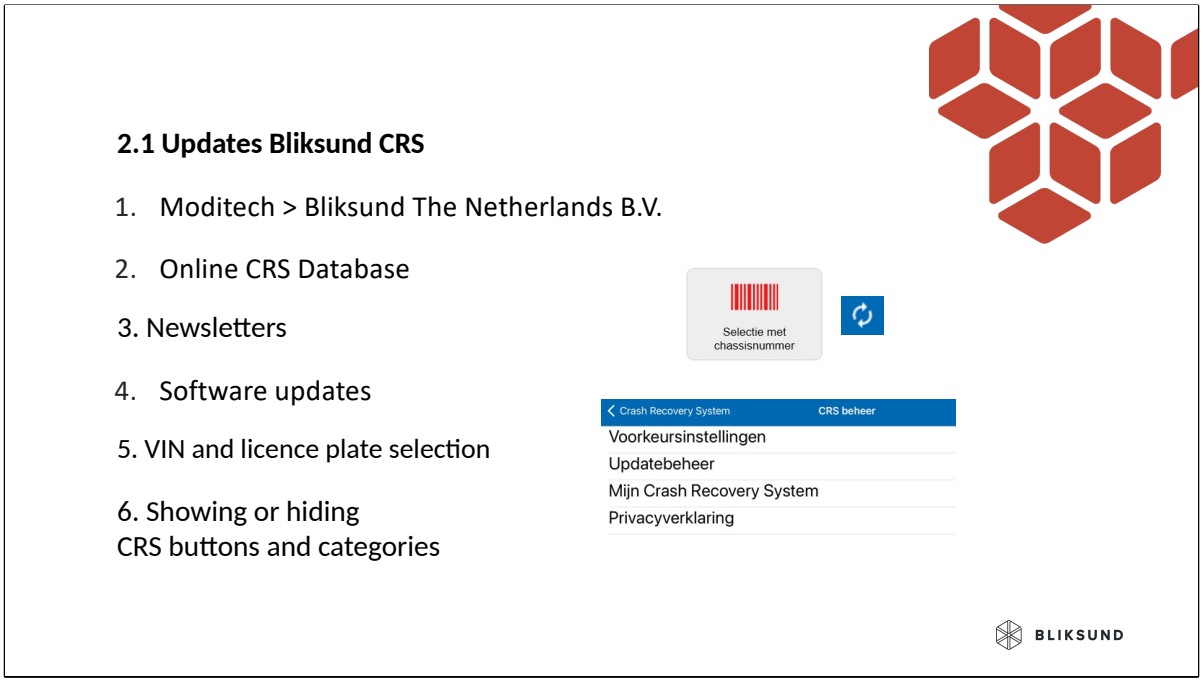
Photo 7: Or you don't know the neighbourhood.. Thanks to the reinforced underbody plate there is damage, but it is more limited. This incident happened during the NATO summit in 2025.

Have the vehicle looked up: 97-DMJ-4. The vehicle does not appear in the CRS, not at the RDW, and FINNIK doesn't know the licence plate either. So sometimes vehicles “don't exist”. During the NATO summit, many vehicles were rented and temporarily present in the Netherlands.

2. Updates Bliksund CRS



BLIKSUND



1. Name changes fully implemented

2. Online CRS Database > no more manual updates! We are delighted to announce that a test app version is available for CRS Windows, in which the Online Database option can be selected to search for a vehicle in the very extensive CRS vehicle database. Many fire services worldwide asked us whether it would be possible to no longer have to download a large vehicle database locally. This wish is now being fulfilled. By selecting the Online database option in the settings, the Crash Recovery System no longer uses a locally downloaded database but an online database. A stable internet connection on the device is required for both licence plate lookup and manual vehicle selection. By using this feature, users no longer need to download the free database update manually every month. New vehicles will be available automatically. Only on Windows with the online database option enabled is the database updated automatically, so not on Android and iOS.

3. Newsletters: As a result of the acquisition of Moditech by Bliksund,

future newsletters will have a new design. We will also send them from a different email address, post@bliksund.com.

4. You need the latest software version to support this and future database updates. You can download the latest software version for your operating system from the support page of our website.

5. VIN and licence plate selection are now enabled by default if the licence allows it.

6. To do this, go to Preferences in CRS management and navigate to Customise main menu. Under the Show / Hide buttons option, you can choose which buttons should be shown or hidden in the CRS main menu.

3. Vehicle fires

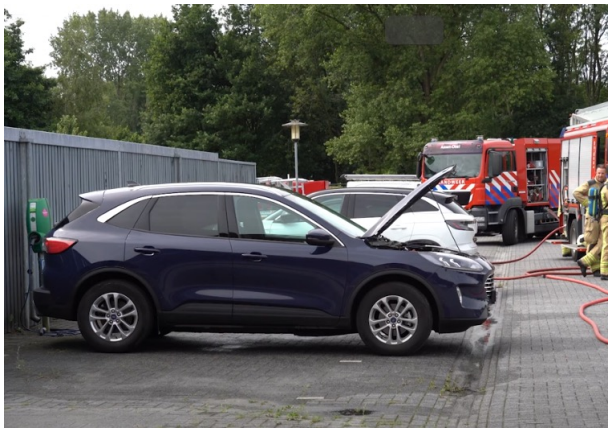


Brand

BLIKSUND

In this chapter we cover a number of cases involving vehicle fires.

3.1 Car at the charging point / Look up: Ford Kuga



Brand

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On Monday around midday, the fire service received a report of a car fire on the Amerikaweg in Assen. In a car park at a company, a hybrid car was on fire while it was connected to a charging point. The fire service was quickly on scene and called in extra resources because of the type of vehicle. Given the risk of re-ignition in a battery fire, a special immersion container was used. The car was submerged in it and will remain in the water for 72 hours to definitively extinguish any smouldering battery cells. According to initial indications, the fire probably started in the battery pack of the hybrid car. Information shows that a recall applied to this model because of the risk of a short circuit in one or more battery cells. This defect may be the cause of the fire. Nobody was injured. The area around the charging spot was temporarily cordoned off for safety and the investigation.

Assignment: look up this Ford Kuga. What can you find about the battery and fire for this vehicle?

3.1 Car at the charging point



Brand

BLIKSUND

This one had a small tube from the battery pointing towards the ground. Water was sprayed into it to cool the battery. An orange substance came out and the battery temperature dropped.

We didn't know such a pipe was there; we only saw it when the battery's overpressure vented through it.

I'll check the technical information to see if we can find anything about this. Pressure relief vents are often just flat with an opening and no tube.

3.1 Car at the charging point



Brand

BLIKSUND

This one had a small tube from the battery pointing towards the ground. Water was sprayed into it to cool the battery. An orange substance came out and the battery temperature dropped.

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3.1 Car at the charging point

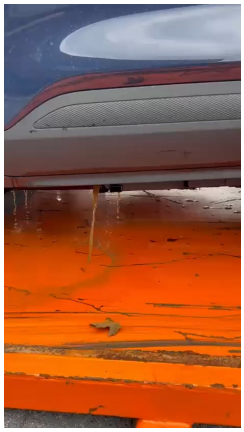


Brand

BLIKSUND

Here the thermal image of the heated battery. Spraying water into the opening cools the battery somewhat. If there is some water on the road surface, the heat is also reflected so you don't have to bend down as much.

3.1 Car at the charging point



Brand

BLIKSUND

3.2 Firefighter injured while extinguishing car fire



Brand

BLIKSUND

Huizen 8-8-2025

A firefighter was injured on Friday evening while extinguishing a car fire on the Naarderstraat in Huizen. The car's battery had caught fire.

Everything seemed fine. A little smoke could be seen inside the car. The fire service had to do some demolition work and disconnected the cables.

Suddenly flames shot metres high out of the car, injuring a firefighter's hand. The fire service had to keep extinguishing until the car could be placed in a large container of water.

3.2 Firefighter injured while extinguishing car fire

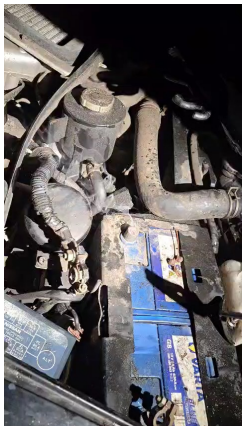


Brand

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Gases from a Li-ion battery are highly flammable and can explode if they accumulate.

3.3 Battery after an accident



Brand

BLIKSUND

The fire service was alerted after a collision. On arrival, colleagues disconnected the battery, both terminals. You would expect the car could then be left behind safely.

This video shows what the recovery operator found an hour later during the recovery; nothing else could be seen on the vehicle. When unloading the vehicle, a smell was noticed and they saw the battery smoking.

3.3 Battery after an accident





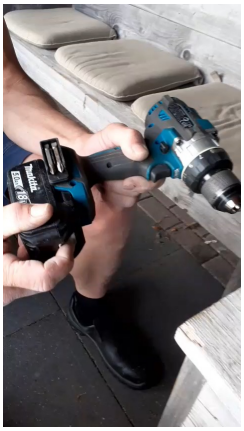
Brand

BLIKSUND

The smoke turned out to come from an internal short circuit because a metal pulley had pierced the battery. The battery acid was removed to stop the process, then the battery was removed from the vehicle. See the photos.

An old-fashioned diesel, nothing special in itself, but still a remarkable and instructive incident.

3.4 Power tool battery fire



Brand

BLIKSUND

Not a car of course, but here a six-month-old cordless drill.. it was smoking in the utility room.. fortunately the owner noticed in time..... This could also have caused a fire..

3.5 Smoking battery in a car park



Brand

BLIKSUND

A training film from the IJsselland fire service, in which a logistical problem was solved during a fire in a car park.

3.5 Smoking battery in a car park







Brand

BLIKSUND

Do you also have the resources from the previous slide available? Can you think of other solutions for such a situation?

The police have a car mover, a TRAC: a tracked vehicle that is driven underneath. Used here in The Hague at the Tarwekamp incident in 2024.

Various recovery companies have a small tow truck that can be driven into a car park.

3.6 Renault makes system for quickly extinguishing battery fires available free of charge

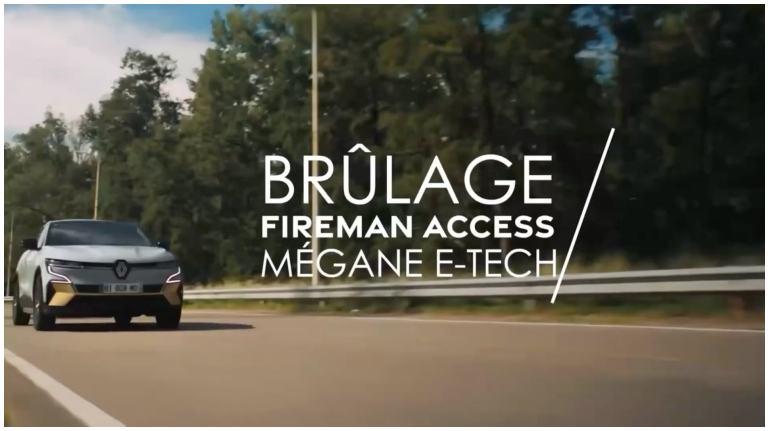


Brand

BLIKSUND

The last thing you want is for your car to catch fire. The last thing firefighters want if that does happen is for it to be an electric car where the fire spreads to the battery. To extinguish a battery fire as quickly as possible, Renault came up with Fireman Access. It is now making it available free of charge to the entire car industry.
First of all: what is Fireman Access? Renault's Fireman Access is a system that is simple on paper yet ingenious, in which the battery of an electric or plug-in hybrid car is sealed with a metal break plate. Under normal conditions this plate prevents moisture from getting in. If the battery catches fire, it is normally quite difficult to extinguish. The metal break plate (the name says it all) can be broken by the high pressure of the firefighters' water jet, so that a battery fire can be extinguished relatively quickly, even 'in a few minutes'.
Other car manufacturers and even parts suppliers can obtain a free licence for this safety system from Renault Group, on one condition: licence holders must agree that every improvement or other 'upgrade' of the system is also made freely available to the car industry. It is give and take, Renault reasons. A total of seven patents apply to the system.

3.6 Renault Group



Brand

BLIKSUND

Several things can be seen in the video: the doors are made of aluminium and burn away completely, and the tyres and safety devices burn and explode. Finally the car is extinguished and the battery is fully put out via the firefighting access.

3.7 Accident in the Heinenoord Tunnel



Brand

BLIKSUND

On Friday late afternoon an accident happened in the Heinenoord Tunnel: several vehicles collided and caught fire. The emergency services scaled up to GRIP1 and the tunnel was completely closed in both directions.

A fierce fire raged in the tunnel with a lot of smoke. Long traffic jams formed in both directions. Nobody was injured in the incident, but the damage to the tunnel and the tunnel wall is extensive. Three cars were on fire. Two of the cars burned out completely. A fourth vehicle suffered minor damage.

The tunnel suffered a lot of damage, so repair work has to be carried out. How long this took is not known.

3.8 Immersion container……



Brand

BLIKSUND

Sometimes it just……doesn't fit



3.9 Burning Volkswagen Touran on CNG

Brand

BLIKSUND

Assignment: watch the video and describe everything that happens; the video lasts 7 minutes.

It concerns a burning Volkswagen Touran on CNG. During the film you see the gas cylinders vent one by one through the fusible plugs on the cylinders. You see the tailgate gas struts and the left rear tyre of the VW Touran explode. On the MB parked next to it, a front left tyre also explodes.

Have the vehicle looked up in the CRS and discuss all the things that can explode;

Tyres, airbags and gas struts; the CNG cylinders will very probably vent.

3.10 Lorry on fire, use of a fan



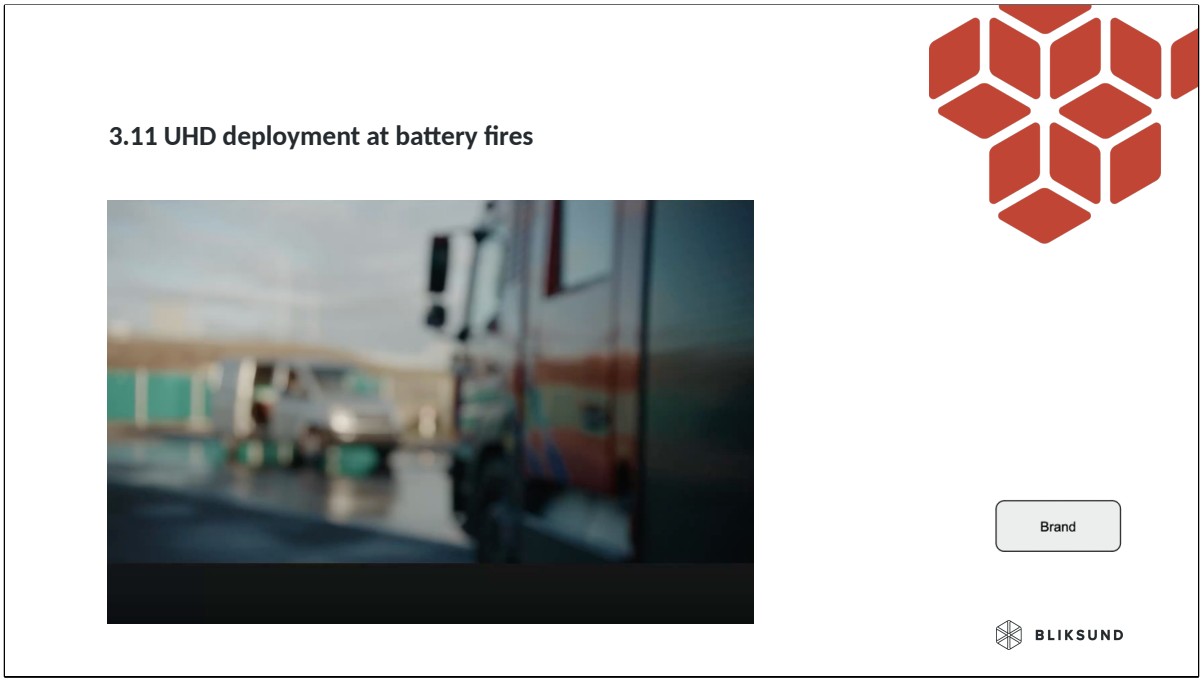


Brand

BLIKSUND

Rijswijk, end of 2024
At this lorry fire, the fire crew used the positive pressure fan to reduce the spread of smoke and improve visibility of the work. A check for hotspots with the thermal imaging camera before handing this lorry over to the recovery operator.

Using the fan allows you to work more safely.



Colleagues,

Last year we, from the VRH, were involved in the NIPV study into extinguishing batteries of electric passenger vehicles. As a result of that study, for the past few months we have had an extra extinguishing option for this type of fire via the BAS team (Fire As a Specialism). The BAS team uses the Coolfire, their ultra-high-pressure system (UHD extinguishing system).

At the moment the BAS team does not attend fires involving (electric) vehicles by default. We don't want that either, because a fire in an EV does not always mean the battery is involved, in which case the fire is no different from a regular vehicle fire.
If it is clear that the battery is involved in the fire, support from the BAS team can be requested via the control room.
Incidentally, this method is in addition to, and not instead of, the two other courses of action: the recovery operator's immersion container and ‘letting it burn out’ (which is often not possible in our region).

When the BAS team is deployed, something is also expected of the local fire engine crew.

To refresh everyone's knowledge, an intro film has been made that clearly shows how to recognise a battery fire, what the points of attention are and what is expected of the local fire engine crew.

We expressly ask you to share this film, or watch it together, with the crews and everyone who may deal with this kind of incident on the street.

3.12 Fire and risks







Brand

BLIKSUND

From a distance it is always easy to comment, but here are some examples from 2025 where unnecessary risks were taken when extinguishing vehicle fires… photos often say more than 1000 words. Also a good example of safe working: opening the bonnet with the spreader! See also the next slide with the film of the dummy.



3.13 Fire and risks

Brand

BLIKSUND

A short video to illustrate: if you are in front of an airbag when it is unexpectedly activated, you are at risk. This video shows a dummy on an airbag. In a vehicle fire this is often an underestimated risk: when a vehicle has burned and we extinguish it, there is a chance of a delayed airbag reaction because the heat has not left the vehicle immediately. Looking for the handle to open the bonnet is an example: you then come close to the steering wheel, knee, curtain, door and/or seat airbags. The cable is no longer intact anyway because the plastic holders have melted, so opening with the spreader, as on the previous slide, is best.

Assignment: THV instructors CIP 2026



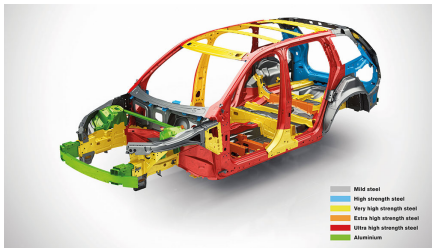
BLIKSUND

In this assignment we work with a number of buttons and features found in the CRS. You are challenged to bring in your own knowledge. After that, the aim is to make choices about the most important things a participant in your course should know.

The assignment is attached as an appendix to the lesson plan.

Duration approximately 45-60 minutes

4. Material strength



Auto's en bestelwagens

BLIKSUND

In this chapter we take a closer look at constructions and materials.

4.1 Difference in construction then and now



Auto's en bestelwagens

BLIKSUND

The difference in construction between the 1960 VW Beetle and later versions is enormous.

Whereas in the distant past we could expect virtually nothing from the vehicle, like this VW Beetle against a wall, major changes have been made to vehicle safety.

4.1 Difference in construction then and now



Auto's en bestelwagens

BLIKSUND

Crash test of the VW New Beetle

4.2 Zeekr 009 (EF1e)



Auto's en bestelwagens

BLIKSUND

CRS assignment: look up the Zeekr 009 (EF1e) and ask what you expect of the strength of the vehicle's construction. You will find it in the American database.

Material strengths

Zeekr 009 (EF1e): the A-pillar has a tensile strength of 2000 MPa and is stronger than the trailer it crashed into!

Passenger airbag? Seat occupancy sensor present?

4.3 Drunk driver



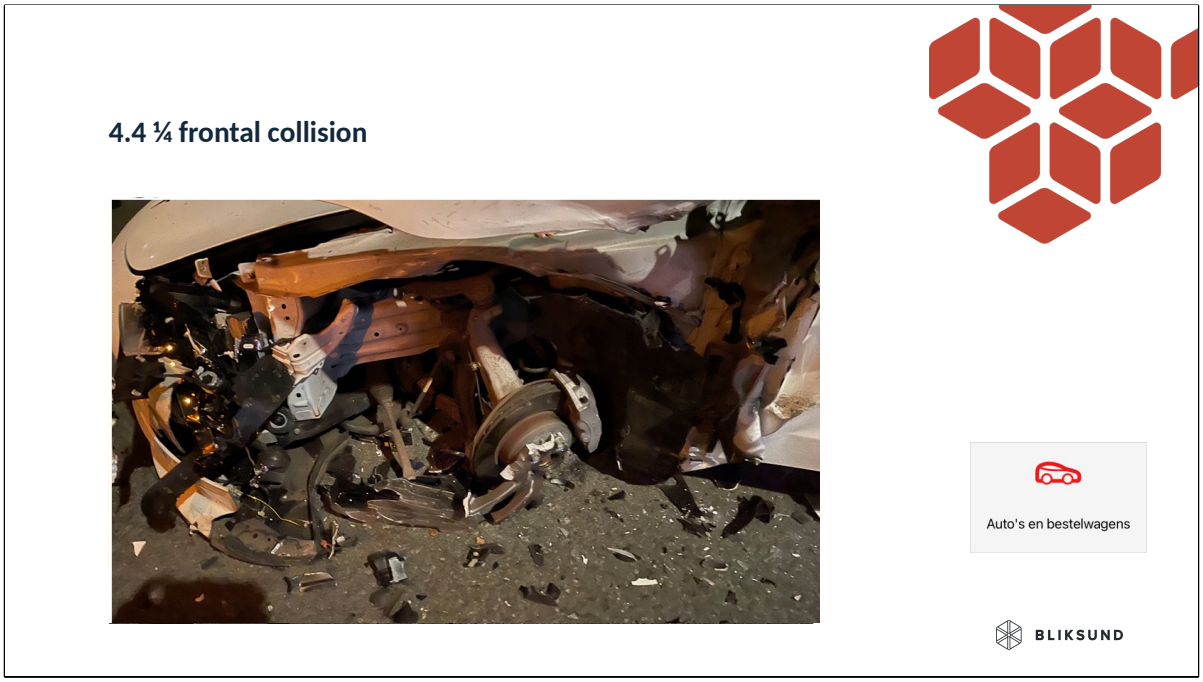
Auto's en bestelwagens

BLIKSUND

December 2024 02:00

On the A4 towards The Hague an accident has happened, cordoned off by the RWS road inspector; a car with a flat tyre is being towed away. The drunk driver in the grey Volvo S40 (39-JDV-3) speeds past the stationary traffic jam and crashes into the back of the RWS vehicle, which is launched forward. The driver of the grey Volvo is only slightly injured and can get out after the fire service opens the driver's door.

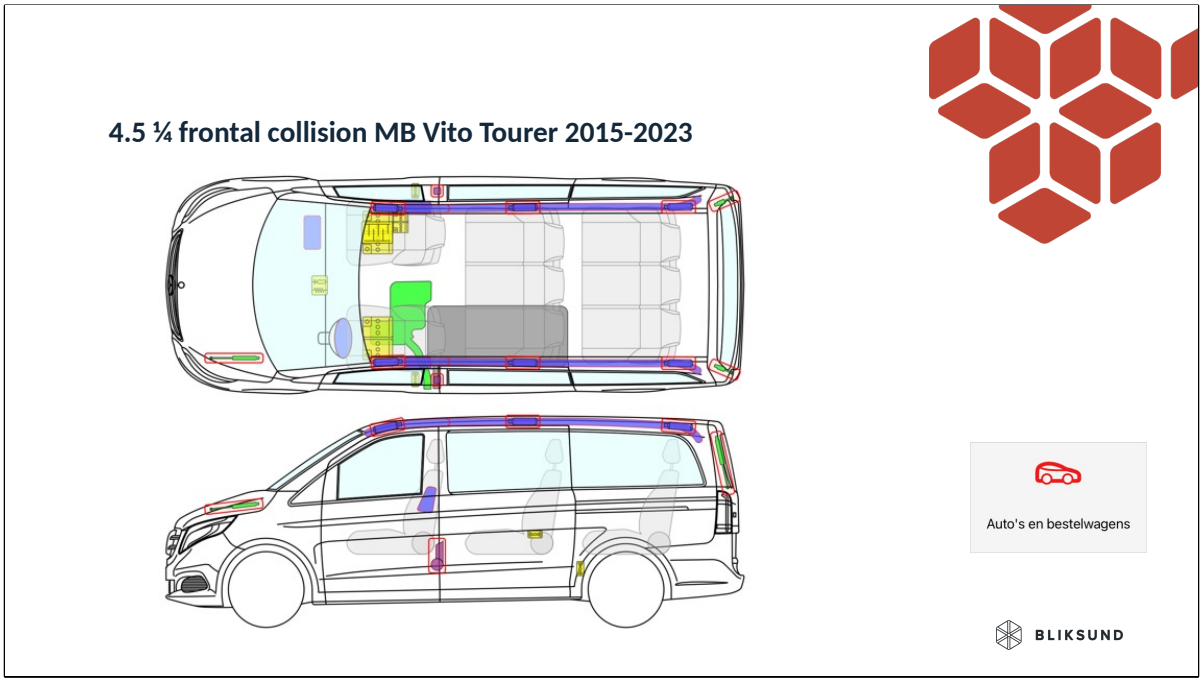
The lesson here (apart from not drinking and driving) is that vehicles nowadays can absorb much more than 20-25 years ago, and this Volvo was even already 15 years old.



Collision on the Westvlietweg in Leidschendam, 28 December 2024.

The blue Peugeot (42-PK-NJ) ended up on the wrong side of the road. The driver had got in 100 metres back, after a visit to the local pub. The windscreen was still heavily fogged up……

Cars nowadays are tested (and built to withstand the impact) for resistance to ¼ overlap frontal collisions, and that type of accident also happened here. If you look at the difference in damage: on the Tesla, the aluminium left front wheel broke off and came away from the vehicle. On the Peugeot the front wheel is steel and ended up in the A-pillar; until a few years ago it would even come into the vehicle and could cause entrapment. This development is therefore favourable for the occupants' chances of survival.



Collision 5 August 2025

On the Groene Kruisweg in Spijkenisse a taxi van and a company vehicle collided head-on after the taxi ended up on the wrong side of the road.

The accident caused a lot of damage. The taxi van ended up in a fence next to the road, the company vehicle against a crash barrier. Both vehicles lost their left front wheel due to the heavy impact and were badly damaged. The asphalt is strewn with debris and oil.

Here you can also see that the (left) front suspension breaks off to prevent the wheel from entering the cabin near the feet.

Point out the curtain airbags: there are three high-pressure gas generators per side! Can they be disabled? Yes, by disconnecting the 12 Volt battery. Can the hazard of cutting through the high-pressure cartridges be removed? No, that is not possible!

4.6 Side collision



Auto's en bestelwagens

BLIKSUND

Saturday 23 August 2025 (Source: MediaTV)

Assignment: look up the Seat Ibiza 2002-2009. Which safety devices affect the operation in this accident? What can you say about the strength of this vehicle? The vehicle is not made of reinforced steel, which is why the tree could penetrate so far into the vehicle.

Text MediaTV.nl:
On the Brandingdijk in Rotterdam, a car with four young men left the road on a bend and crashed hard into a tree. Two occupants were injured and rushed to hospital by ambulance.
After the impact the car came to a standstill sideways and was badly damaged. One of the occupants was trapped and freed by the fire service, which removed the roof of the vehicle. A second occupant was also taken to hospital. The casualty may have suffered several fractures. The two other occupants got out of the car virtually unharmed.
The police closed the Brandingdijk and a parallel road for an investigation into the cause of the accident. A police tow truck took the vehicle away for further investigation. The parallel road was reopened to traffic. Police students

directed traffic past the incident.
Excessive speed combined with a locally slippery road surface after rain is probably the cause of the accident. Forensic traffic investigators are carrying out further investigation.

5. Agricultural and construction vehicles



Constructie voertuigen

Landbouwvoertuigen

BLIKSUND

In this chapter we cover these vehicles only briefly.

5.1 Mecalac ES 1000



Constructie voertuigen

BLIKSUND

Assignment: look up the Mecalac ES 1000 under construction vehicles.

- Which symbols are “new” here? The symbol for the anchor point and the lifting eye.
- These lifting eyes and anchor points are very useful with an overturned vehicle.

Have the Volvo L120H – Electric – wheel loader looked up:
Which additional anchor point does it have? The third image is a lock for making the articulated steering rigid.

5.2 Accidents with agricultural vehicles



Landbouwvoertuigen

BLIKSUND

These slides show that there are quite a lot of incidents between agricultural vehicles and other road users. Because tractors are large, wide, tall and heavy, things generally end reasonably well for the tractor driver.
Because these vehicles often drive on narrow roads and more slowly than other traffic, overtaking is often the cause of an accident, and the other party is then often the victim. Unfortunately not rarely with a fatal outcome, because of the impact, or because another road user disappears under the vehicle….

Because of the often fatal outcome, we will not go into accidents with these vehicles in further detail.

5.3 Fendt 314 Standard <-> Holland Utrecht Hue-Trac 314





Landbouwvoertuigen

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These two slides show the difference between tractors in their basic version and in a converted electric version. The electric versions are currently mainly used for (mowing) work within low-emission zones.

Have the standard Fendt 314 and the Holland Utrecht Hue-Trac 314 looked up.

5.3 Comparison fuel vs electric

	Fendt 314 standard 104 kW / 141 hp	Hue-Trac 314 100 kW / 140 hp 360kWh
Sales price excl. VAT	€ 134,000	€ 528,000
Delivery labour	15 hours	900 - 1100 hours
Depreciation (at 10,000 hours)	€ 12 per hour	€ 50 per hour
With a subsidy of € 114,000 (= 30% of the conversion costs)		€ 39 per hour
Annual use of a 2-person household is 2700 kWh		= charging this tractor 7 times

Landbouwvoertuigen

BLIKSUND

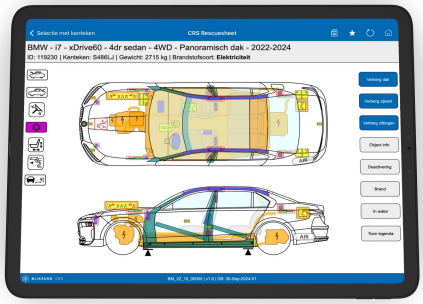
- Maintenance is expected to be slightly cheaper than for a regular tractor
- The batteries are waterproof, to prevent problems if the vehicle ends up in water (!)
- 10-hour working days should be possible.

5.3 Holland Utrecht Hue-trac 314



These two slides show the difference between tractors in their basic version and in a converted electric version.

6. New(s) in the CRS



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6.1 Zeekr “automatic” window breaker

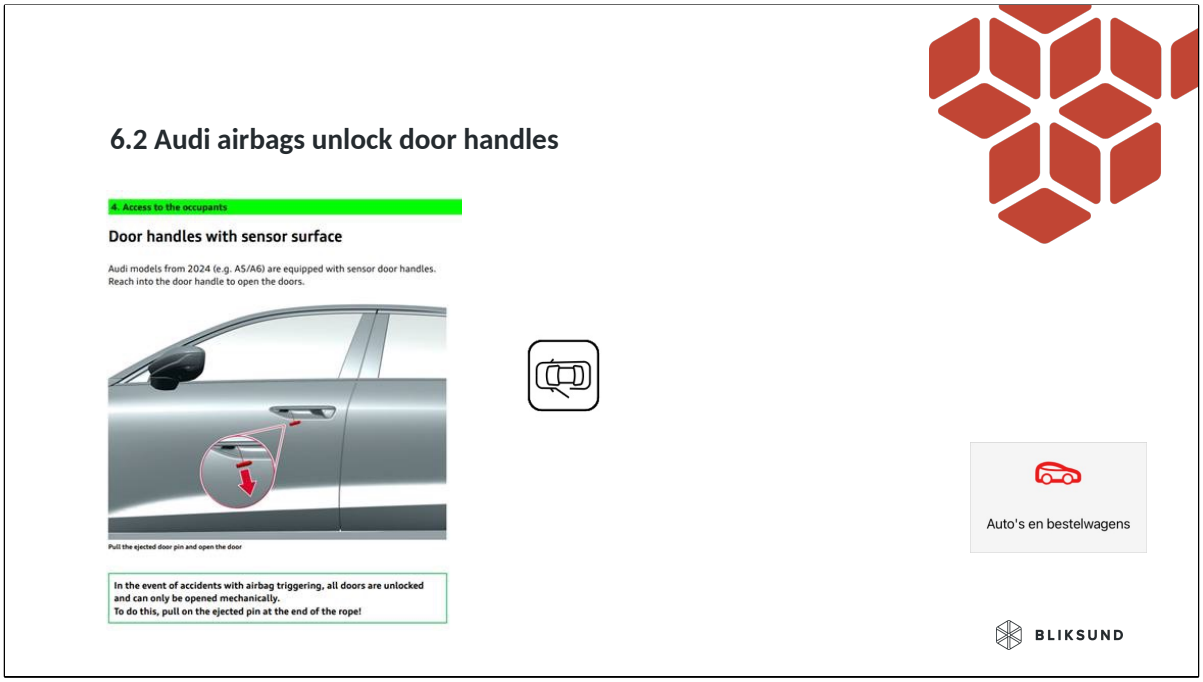


Auto's en bestelwagens

BLIKSUND

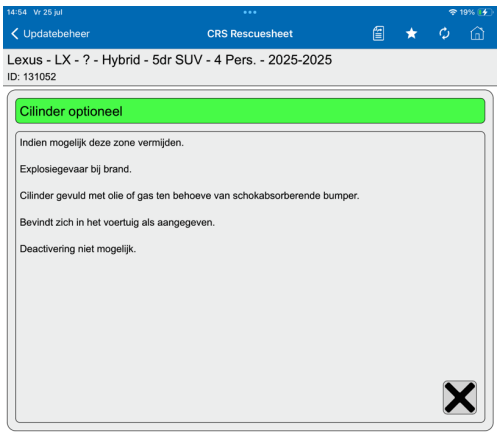
The “automatic” window breaker is a standard feature integrated into the driver's door of the Zeekr 7X and is specially designed to provide a way to escape from a vehicle that has become submerged.

The system is activated by pulling a lever under the driver's armrest and uses a non-electric actuator to ensure it works even when the car's power supply has failed.



Audi airbags unlock door handles
In Audi vehicles from 2024 onwards, airbag deployment can trigger automatic door unlocking as a safety measure. When the airbag sensors detect a collision of a certain severity, they send a signal to the vehicle's central control unit, which then activates the door lock actuators to unlock all doors, so that they can only be opened mechanically. This helps ensure that responders or occupants can easily access the vehicle after an accident.

6.3 Lexus LX





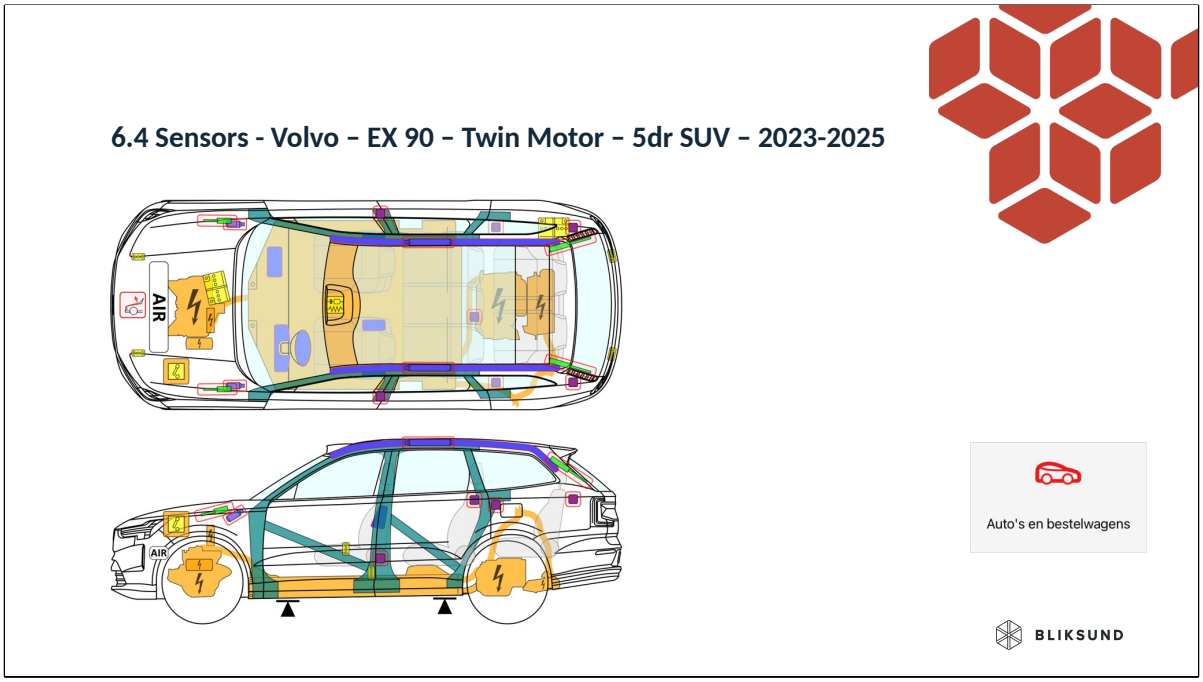


Auto's en bestelwagens

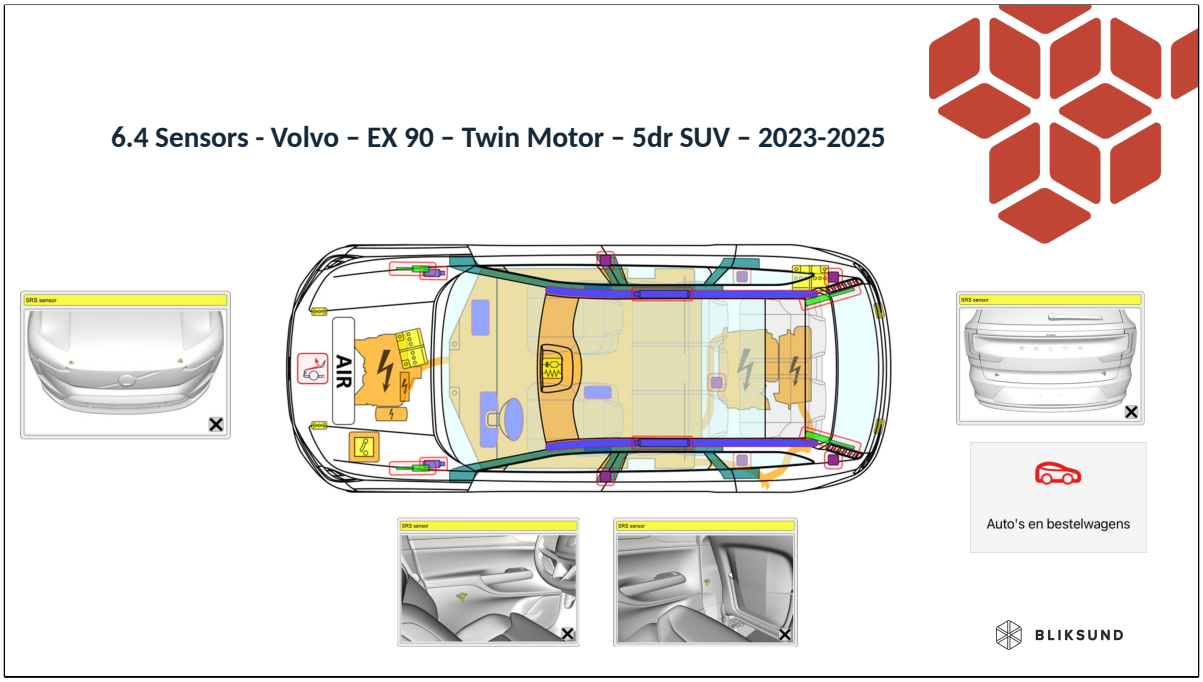
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Look up the Lexus LX and ask what is different / new here?

This concerns the optional cylinder for the shock-absorbing bumper



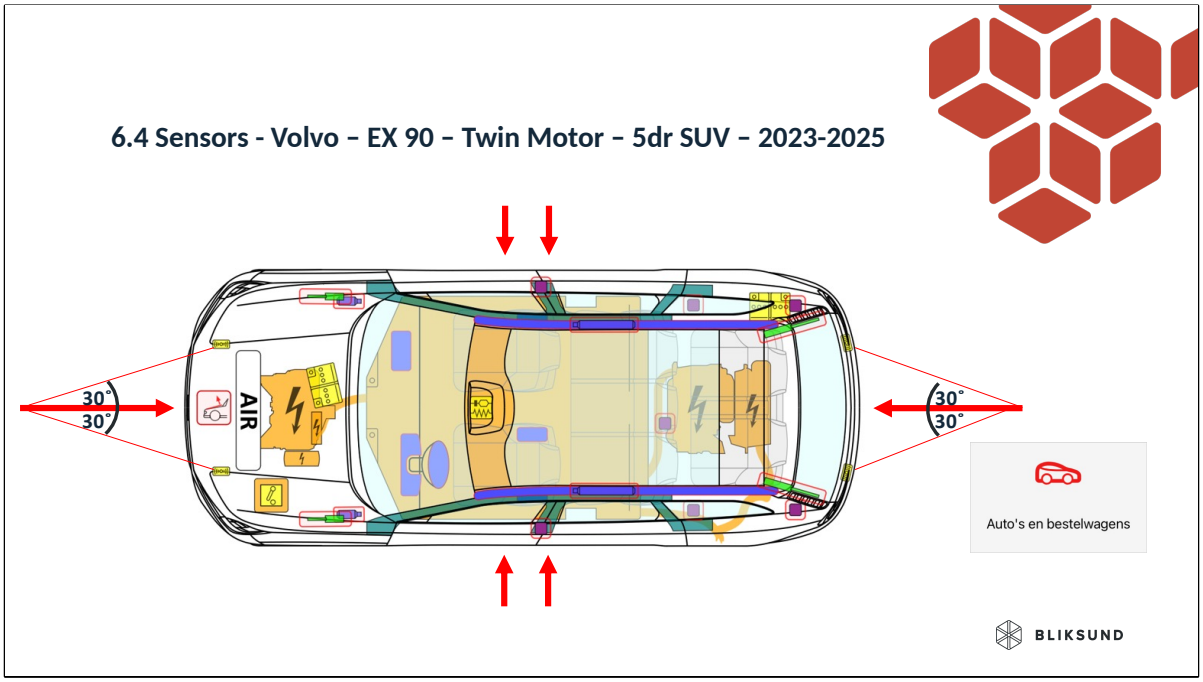
Look up this Volvo EX 90 and ask where the crash sensors are located and what functions they have?



This vehicle now also has crash sensors at the rear, which now also have a function in the direction of travel. When a certain threshold is reached, they also send a signal to the SRS control unit.

What does that mean? That in a rear-end collision the high-voltage part may be switched off.

Have participants name which sensors activate which airbags and seat belt pretensioners; the next slide shows the activation directions and the notes list the safety devices that are activated.



The sensors have their function in the direction of the arrows shown.

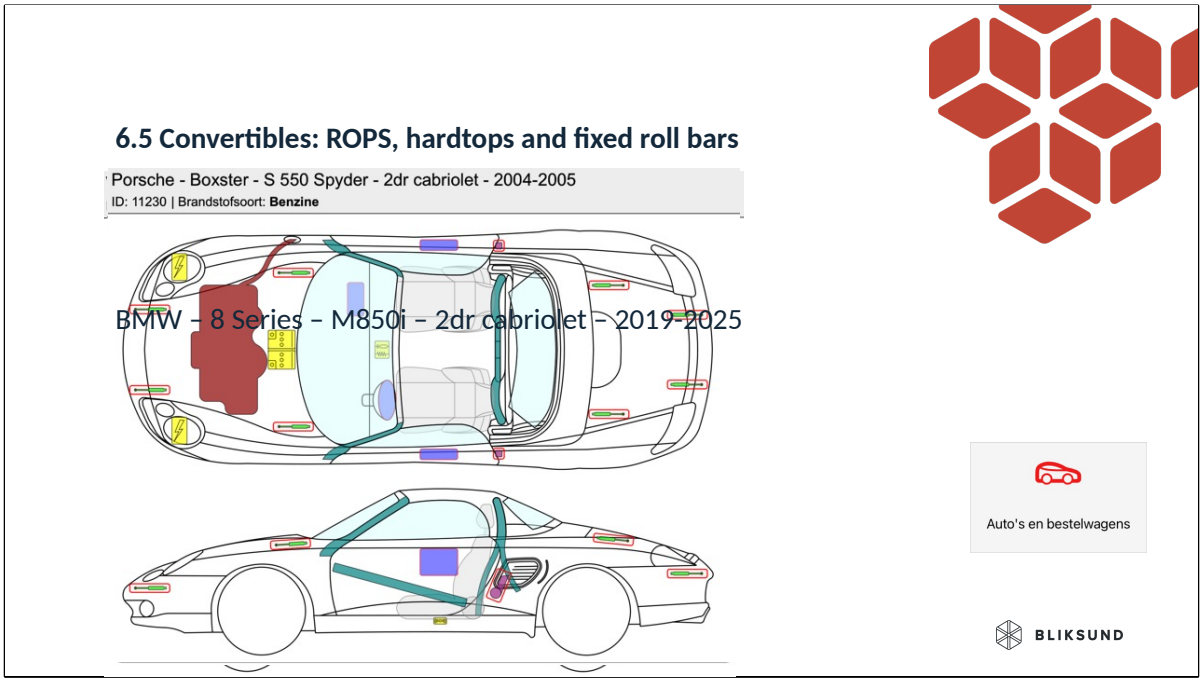
On this slide we can also ask which functions are activated in a collision purely in the drawn directions of the sensors:

- Sensors in the front bumper: steering wheel airbag, driver knee airbag, passenger airbag, pedestrian protection system, seat belt pretensioners (max 5), the high-voltage relay. In a frontal collision this applies within an angle of 30˚ from the longitudinal axis; if the angle is larger, the steering wheel and passenger airbags cannot be activated either. The larger the angle relative to the longitudinal axis, the more the side airbags are activated and the seat belt pretensioners will not be activated.

- Sensors in the door pillars, in the doors and in the rear bumper: curtain airbags (depending on the side of impact), high-voltage relay

- Sensors in the rear bumper: What does that mean? That in a rear-end collision the high-voltage part may be switched off.

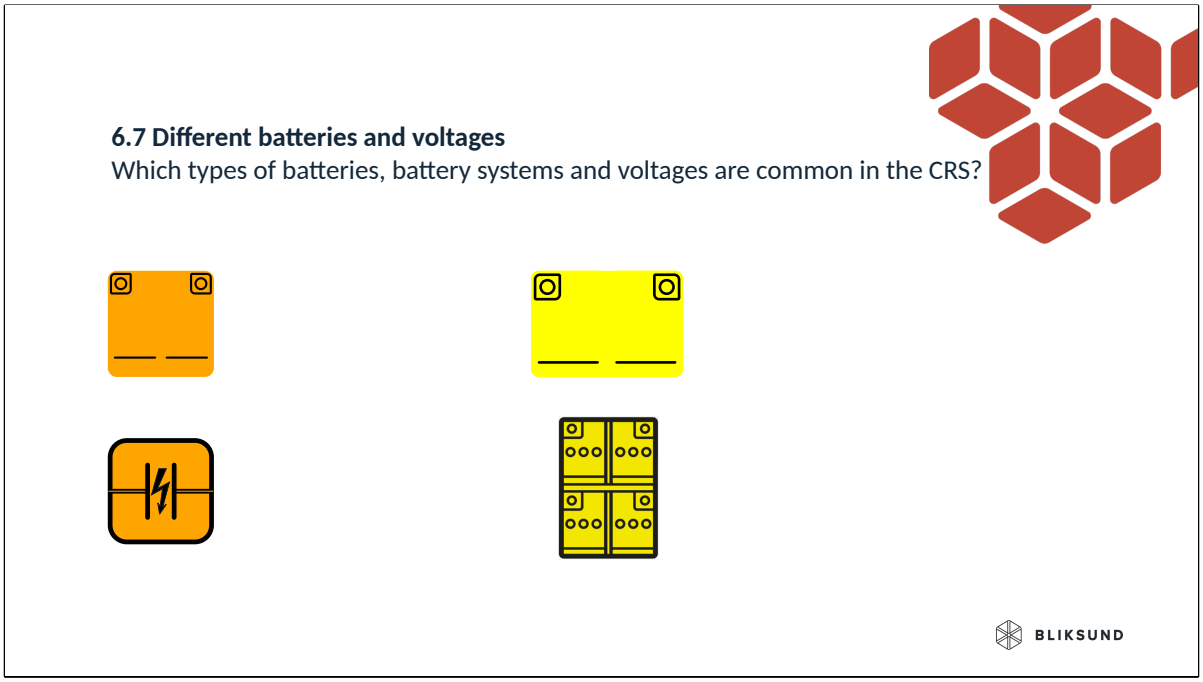
If the car undergoes a deceleration greater than 12 m/s², the airbag will be activated regardless of driving speed. This can therefore happen from as little as 25 km/h, for example, against a sufficiently solid object.



Assignment: look up these 3 vehicles and add them to the vehicle list

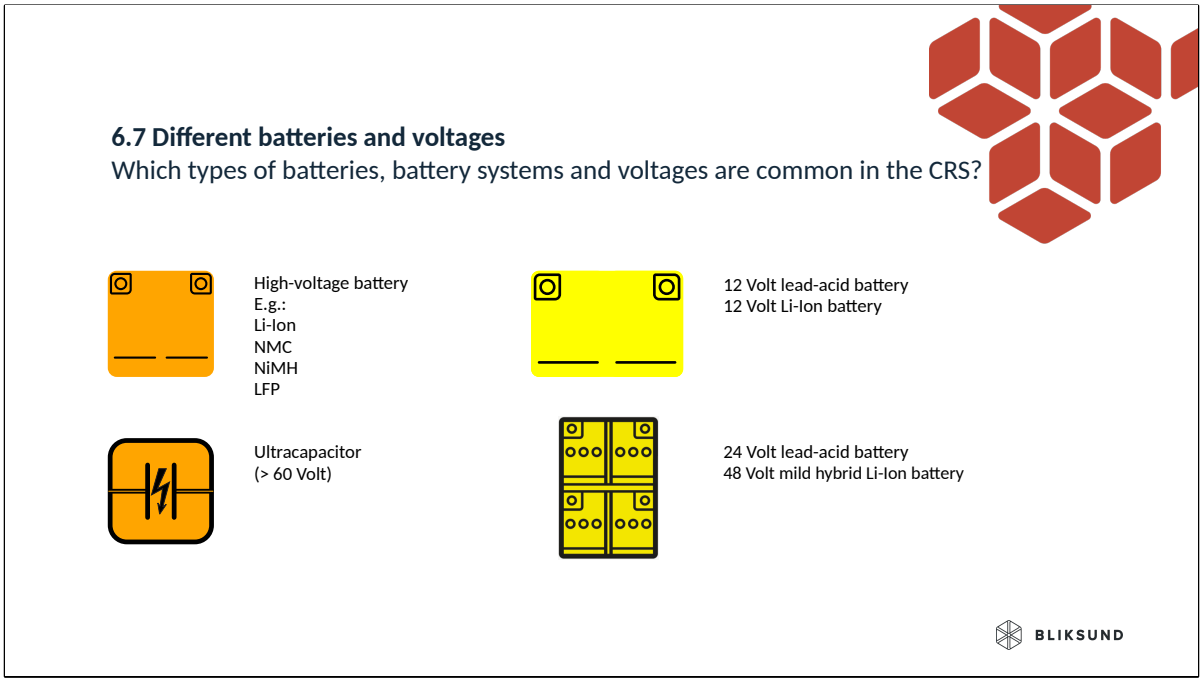
The Volvo has two cassettes containing a roll bar just behind the headrests and the rear seat.





Which types of batteries, battery systems and voltages are common in the CRS?

12 volt lead-acid battery
12 volt Li-Ion
24 volt lead-acid
HV vehicle batteries (with various voltages)
Energy storage systems
48 volt mild hybrid
5-6 volt capacitors



Which types of batteries, battery systems and voltages are common in the CRS?

12 volt lead-acid battery
12 volt Li-Ion
24 volt lead-acid
HV vehicle batteries (with various voltages)
Energy storage systems
48 volt mild hybrid
5-6 volt capacitors

7. Regional and national publications



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7.1 Super batteries and electricity consumption

Elektrische deelauto's in Utrecht ingezet als 'superbatterijen'

27 NOV , 3:08 · ZAKELIJK



UTRECHT (ANP) - In Utrecht worden elektrische deelauto's van MyWheels binnenkort ingezet als rijdende 'superbatterijen'. Dankzij speciale accu's

Maandag 21 juli 2025 | Het laatste nieuws het eerst op NU.nl



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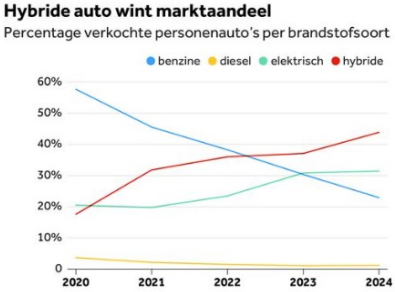
7.1 Recalls and market share



NOS Nieuws • Donderdag 19 juni, 15:06 • Aangepast donderdag 19 juni, 18:15

Citroën roept ruim 33.000 auto's terug, eigenaren mogen er niet meer in rijden

Ruim 33.000 Nederlandse automobilisten met een bepaald type Citroën mogen daar niet meer in rijden. Het gaat om de tweede generatie van de Citroën C3 en de DS3 van de eerste generatie. Inclusief andere generaties zijn er van die types in totaal ruim 87.000 in ons land.



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7.2 Hydrogen……..



Fabrikanten en tankstations nemen afscheid: waterstofauto is ten dode opgeschreven

Autofabrikanten nemen massaal afscheid van waterstofauto's en ook het aantal bijbehorende tankstations in Europa verdwijnt in rap tempo. Het vertrouwen in waterstofauto's blijkt inmiddels net zo vluchtig als het goedje zelf.

BLIKSUND

August 2025
For years, hydrogen was the future fuel for motoring. No fossil raw materials were needed and only a few drops of water came out of the exhaust. Refuelling was as fast as with a petrol car and the range was just as large.

Yet the hydrogen car is coming to a definitive standstill in more and more places. Stellantis, the parent company of brands such as Opel, Peugeot, Citroën and Fiat, recently announced it would stop further investment in hydrogen technology. Production of hydrogen-powered commercial vehicles is also being discontinued. According to Stellantis, the decision was taken because of the limited availability of hydrogen filling stations, the high investments required and the lack of sufficient purchase subsidies for customers.

Hydrogen suffers mainly from the chicken-and-egg problem

Freek de Bruijn, RAI Vereniging
Fewer and fewer hydrogen filling stations

Volkswagen, Mercedes-Benz, Nissan, Honda and many other brands had already stopped developing hydrogen. In addition, more and more European oil companies are closing their hydrogen filling stations. In Germany alone, as many as 22 hydrogen filling stations are closing this year.

A great future predicted

Eight years ago it did not look that way. In 2017, KPMG research showed that 78 percent of people working in the car industry still thought hydrogen cars would become the standard. And around 62 percent were convinced at the time that the electric car would come to nothing. The Netherlands now has almost 600,000 battery electric vehicles. And on hydrogen? 630.

“Hydrogen suffers mainly from the chicken-and-egg problem,” says Freek de Bruijn of the RAI Vereniging, the Dutch organisation of car importers and manufacturers. “The lack of infrastructure makes buying a hydrogen vehicle less attractive. And because there are only a limited number of hydrogen vehicles, few new hydrogen filling stations are being added for now. Moreover, refuelling with hydrogen is still much more expensive than diesel, for example. That has to change to accelerate the development of hydrogen.”

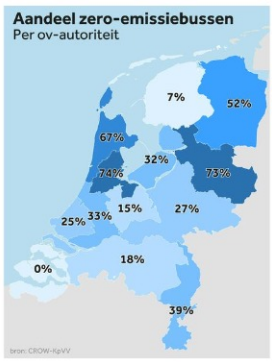
Hydrogen is not an energy source

Yet hydrogen has actually always been controversial. The initial optimism soon faded when the general public discovered that hydrogen is not an energy source but an energy carrier. Electricity is needed to produce it. And if that electricity is not green, it does not help much.

Hydrogen is also extremely volatile, so a lot is lost during transport and storage. To transport it, it must be stored under very high pressure, and that also costs energy.

7.3 Public transport buses must be emission-free by 2030, but they cannot charge everywhere





BLIKSUND

NOS News, Saturday 18 January 2025;

The goal of fully emission-free bus services in public transport by 2030 is under pressure. That is what OV-NL, the association of public transport companies, says. "You already see that some contracting authorities allow fossil fuel operation even after 2030," says chair Hatte van der Woude.

Because of the heavy pressure on the electricity grid, charging points cannot be installed quickly enough for all the electric buses needed. Transport companies do not get priority from grid operators when applying for a grid connection and therefore join the back of the queue. As a result, the introduction of electric buses is delayed in several places, and diesel buses continue to run there for the time being.

According to agreements made nationally about ten years ago, every newly purchased bus must be electric from this year onwards. By 2030 all public transport buses on the road must be emission-free. At present this applies to 37% of the more than 5100 buses.

https://eur04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fnos.nl%2Fl%2F2552279&data=05%7C02%7Crick.van.hoeij%40vrh.nl%7Cdfc1ecca130a4a1b4dcd08ddbfec5ad0%7C089640a56b4745988629191e0700b50e%7C0%7C0%7C638877744038593826%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIwLjAuMDAwMCIsIlAiOiJXaW4zMiIsIkFOIjoiTWFpbCIsIldUIjoyfQ%3D%3D%7C0%7C%7C%7C&sdata=7L%2FJpFTEfZr0M6YbGyebwTrcvrrs9QbVAIXIPjUMlyo%3D&reserved=0

A point of attention is that across the whole country there will be a mix of drive types for years to come, so we must remain prepared for all forms.

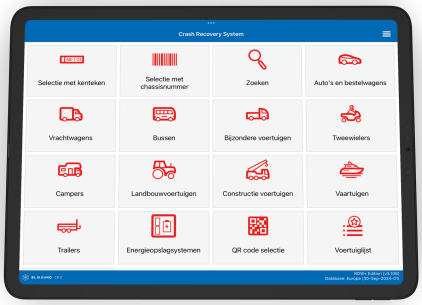
7.4 What will the future bring....



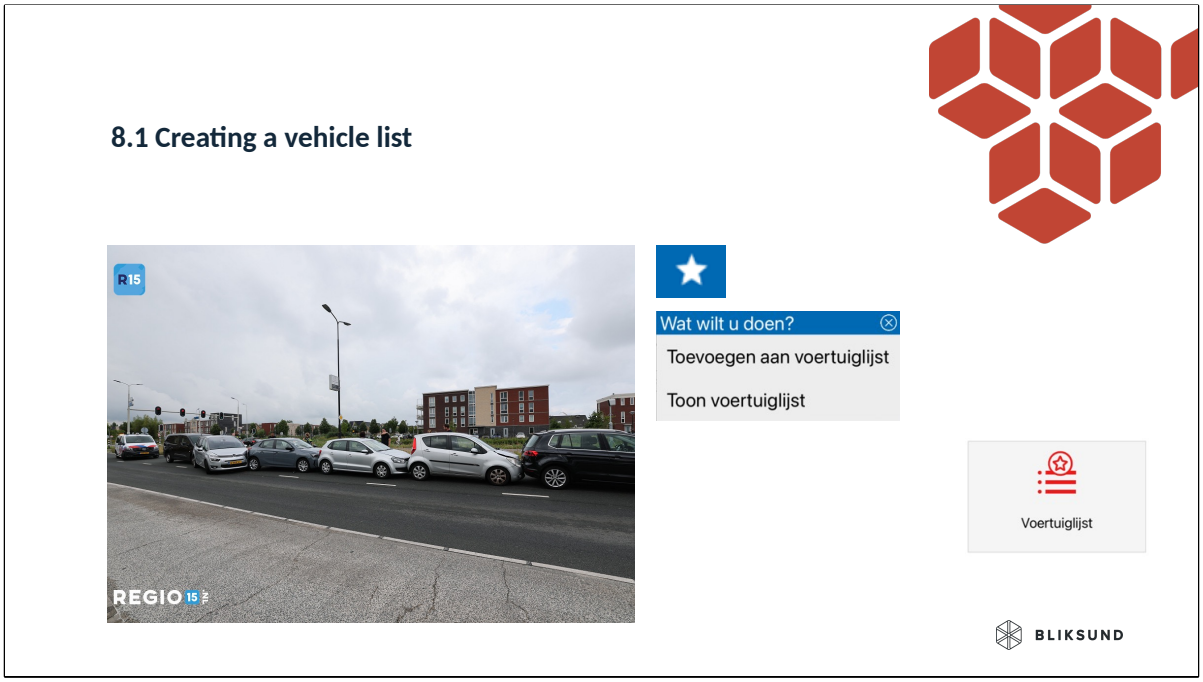
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In itself a nice idea: if a battery catches fire, you eject it.
But imagine standing next to it, or it doing this in a car park and shooting the burning battery under another car.

8. Practising with the CRS



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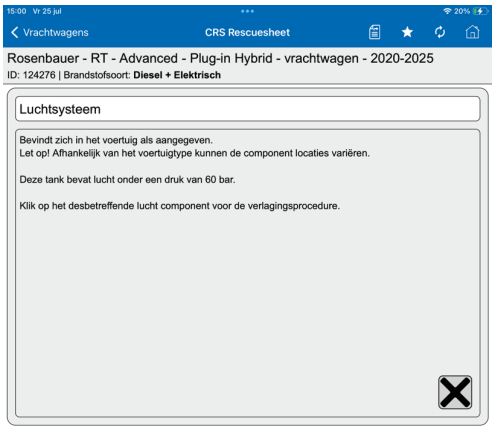
Once you have looked up a vehicle, you can tap the star at the top right of the bar and the question appears: what do you want to do; add to vehicle list / show vehicle list. At that moment an extra icon also appears among the tiles on the home page: vehicle list. From here, have participants put all the vehicles they looked up into the list.

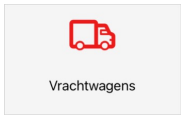
The vehicle list is useful, for example, when you have an incident with several vehicles. You then don't have to look up the earlier vehicle all over again each time.

(in this specific incident it may be rather difficult to read the licence plates :-)

Six cars involved in pile-up on the Prinses Beatrixlaan in Rijswijk
WEDNESDAY 23 JULY 2025 09:55 (SOURCE: REGIO 15)

8.3 Rosenbauer RT

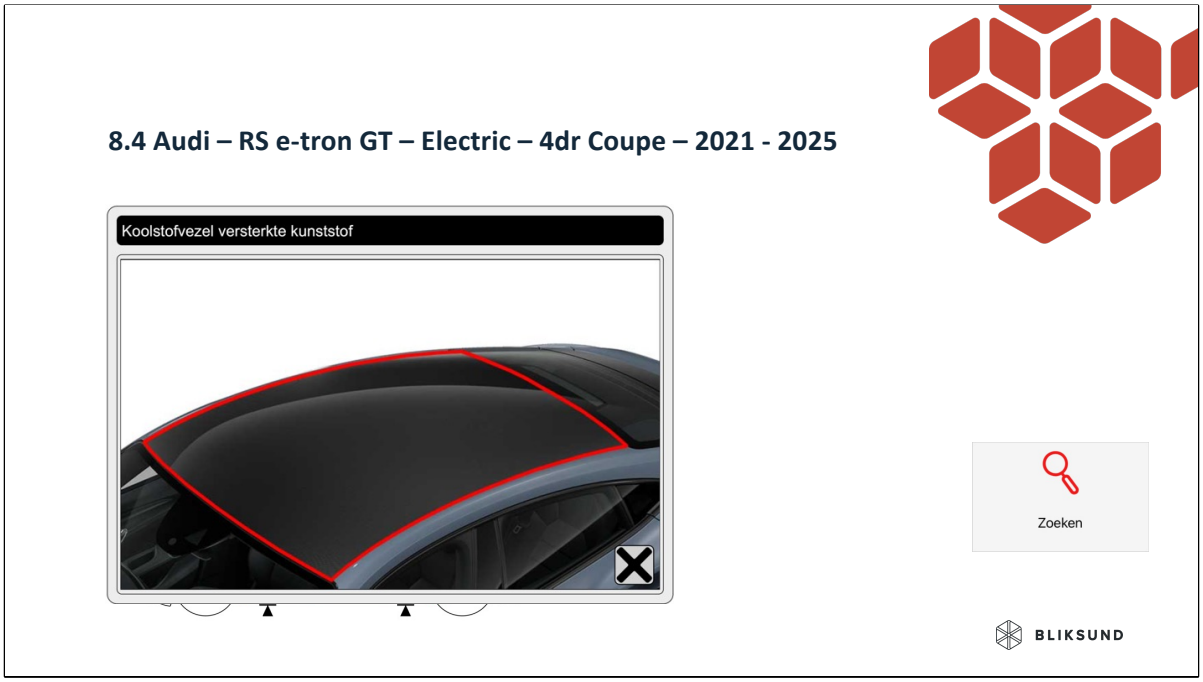




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Assignment: look up the Rosenbauer RT and have participants say what this image does show and what it does not show for this specific vehicle?

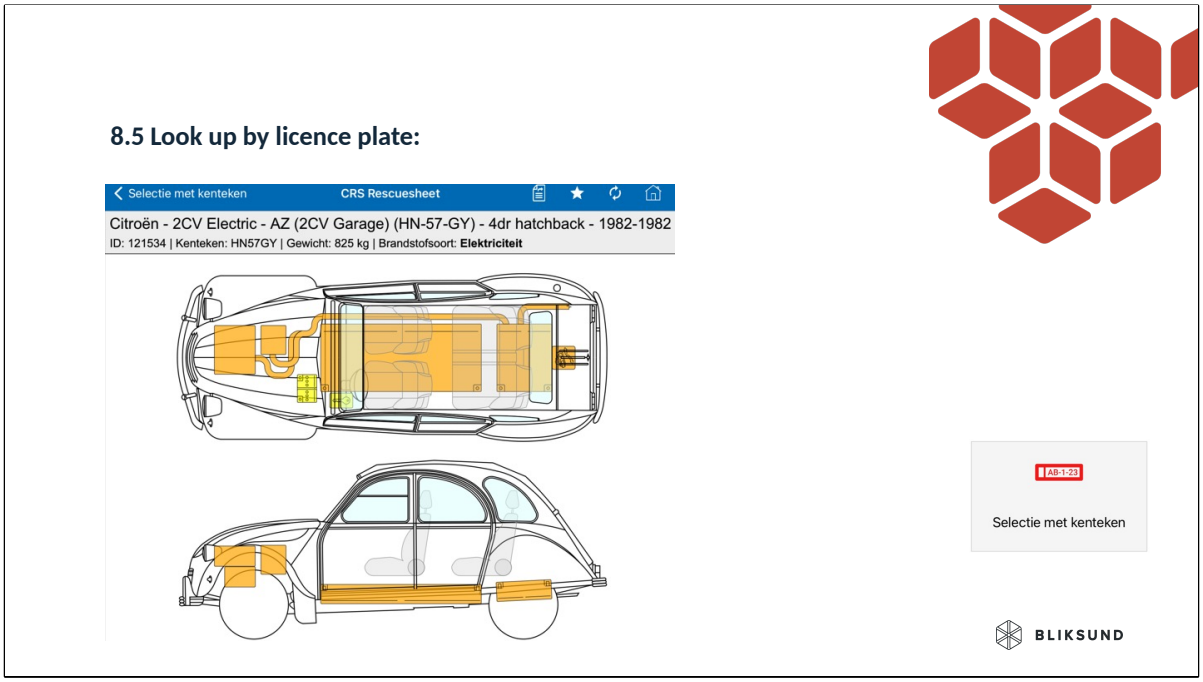
This fire engine has air tanks for the suspension and brakes: a central tank of 60 bar and 4 cylinders/bellows of 12 bar. Since this is of course a fire engine, it will very probably carry 6 to 7 breathing apparatus sets with just as many spare cylinders, all at 300 bar(!). Because this is equipment and not part of the vehicle, it is not visible on the CRS printout.



Assignment: look up the Audi – RS e-tron GT – Electric – 4dr Coupe – 2021 - 2025,

Which optional extra does this vehicle have?

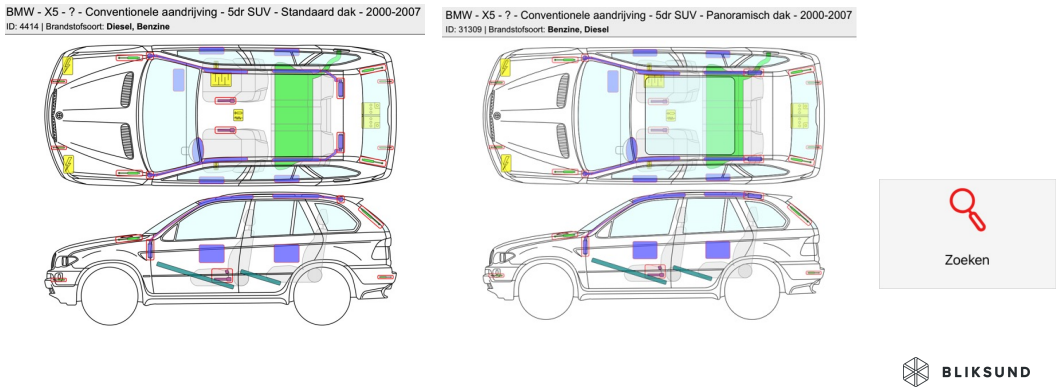
A carbon fibre roof: use PPE and clean your tools after the operation.



Assignment: look up by licence plate: HN-57-GY. A converted electric 2CV, better known as Citroën's “ugly duckling”.
These vehicles are not converted in large numbers. The figures below come from Autoweek and show that on 1 January 2025 around 100 classic cars had been converted to electric. The chance of coming across one is small.

Top 5 classic cars* converted to EV in the Netherlands
Volkswagen Beetle 1961 - 1974 38
Citroën 2CV/Dyane/Méhari/Ami 1959 - 1989 26
Volkswagen Transporter 1957 – 1994 13
Porsche 911/912 1965 – 1999 12
Land Rover Defender 1961 - 1998 10

8.6 Look up: BMW - X5 - ? - Conventional drive - 5dr SUV Standard roof – 2000-2007



Assignment: look up this BMW X5 and ask what special features are visible?

- This BMW has airbags in the doors and curtain airbags. The curtain airbags have cartridges in the A-pillar and crosswise in the D-pillar. The latter in particular are in the way if you were to peel open the roof (tin-opener method).
- In addition, the installation location of the curtain airbags differs depending on the roof version (with or without panoramic roof).
- Xenon lighting: especially when switching on, due to higher voltages during start-up; once the lamps are lit, the voltage drops again.

This BMW has 4 airbags in the doors, curtains in two parts, and the high-pressure cylinders lie crosswise in the roof edge at the tailgate.

8.7 Look up: MB Actros







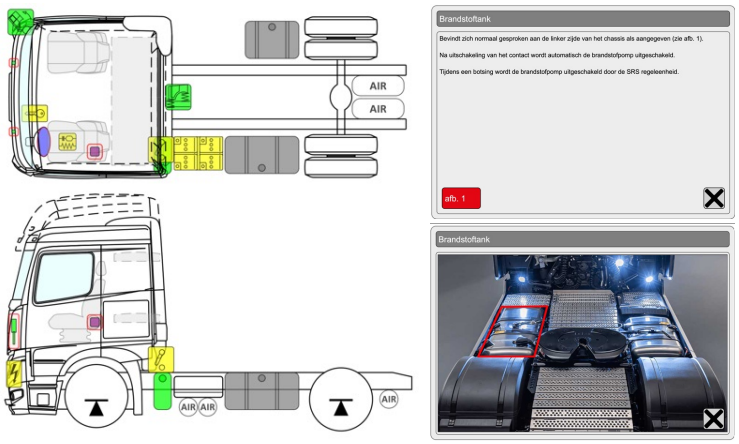
Vrachtwagens

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Assignment: look up the MB Actros

What information do you find for the fuel tank?

8.7 MB Actros – tractor unit 2021-2025



Vrachtwagens

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What information do you find for the fuel tank?

When the ignition is switched off, the fuel pump is switched off
In a collision, the fuel pump is switched off

Are both of these active in this incident?

8.8 CRS licence plate practice list – 1/2

Denmark		
DE79016	KIA EV6	CRS-ID: 108223
BS82091	Hyundai i30	CRS-ID: 34495
France		
GQ966FH	Dacia Spring Electric	CRS-ID: 108040
EY247PE	Kia Ceed GDI	CRS-ID: 100155
Italy		
GC768NR	Fiat 500e	CRS-ID: 101542
FH245DM	Alfa Romeo Stelvio	CRS-ID: 89632
Netherlands		
TJG-59-H	Doosan DX165W-5	CRS-ID: 110735
T-92-GBG	New Holland T7 tractor	CRS-ID: 114404
Norway		
EL 23263	Tesla Model S	CRS-ID: 81834
EL 32620	BMW i3	CRS-ID: 81325

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8.8 CRS licence plate practice list – 2/2



Spain

0897 MPH	Citroën C3 Aircross	CRS-ID: 124510
6298 KSN	Skoda Kodiaq	CRS-ID: 106261



Sweden

PRE 366	Mercedes-Benz CLS	CRS-ID: 79993
BJF 444	Volvo 7700 CNG Bus	CRS-ID: 111465



Swiss

BL182232	Mazda 3	CRS-ID: 80719
ZH951043	Ford E-Transit	CRS-ID: 112764



United Kingdom

PK56 UOM	Volkswagen Eos	CRS-ID: 42334
HV13 YNU	Renault Zoe	CRS-ID: 80039



United States of America

75736X3 CA	Tesla Cybertruck	CRS-ID: 128607
R3TIR3D NJ	Chevrolet Corvette	CRS-ID: 98396

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9. Learning from incidents



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9.1 Learning from incidents



VRH learning card

9.2 Rescue cutter breaking





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Here a cutter breaks; there was probably damage on the blade. The B-pillar of this Opel Corsa is also being cut; it is not heavily reinforced, but there is a substantial bolt from the seat belt guide, and that is what makes the cutter break.


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CRS