

LMDh Work Safety Instructions – Driver Protocol

Purpose

This work instruction applies to the LMDh driver in the pitlane and on the racetrack for the safe handling of a car with High Voltage during the event. Interactions with the car can cause injuries:

electric shock, electric arc, hazardous substance exposure, risk of fire, risk of thermal runaway.

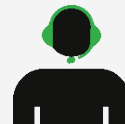
General Information



Accident, specific incident or malfunction on the car



Contact team box



Follow instructions from race control

Hazards



Electrical: High Voltage (780 V)



Chemical risk of hazardous gases



Chemical risk of corrosive liquids



Risk of fire at the car or surrounding area



Risk of battery thermal runaway

Personal Protective Equipment



Helmet



Fire resistant race suit and underwear



Race gloves



Race shoes

Emergency Equipment - Fire



Car internal fire extinguisher

Safety Equipment

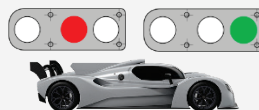


Driver Master Switch (DMS) (P1, P2)

Work Process for Driver



Exit vehicle



Evaluation of the safety lights status



Isolate High Voltage system with DMS in P0



Fire extinguishing operations

Important Components on the Racecar

Motor Generator Unit MGU
& Gearbox

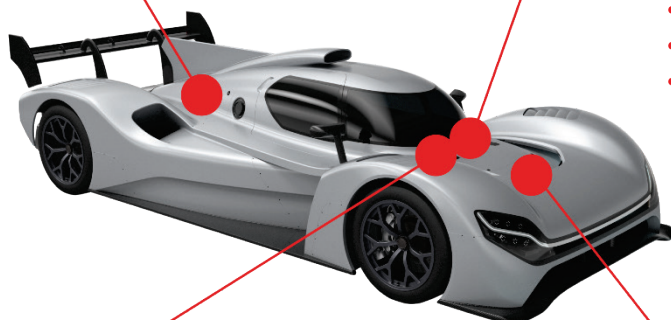


Energy Storage System ESS
& Motor Control Unit MCU



- Electric shock
- Electric arc
- Risk of fire

- Electric shock
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- Hazardous substance
- Risk of fire
- Thermal runaway



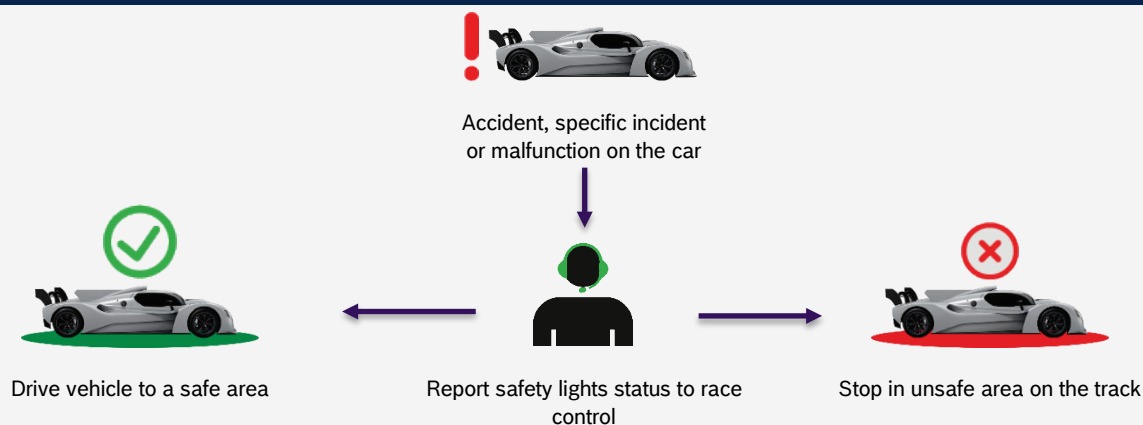
Hybrid Control Unit HCU



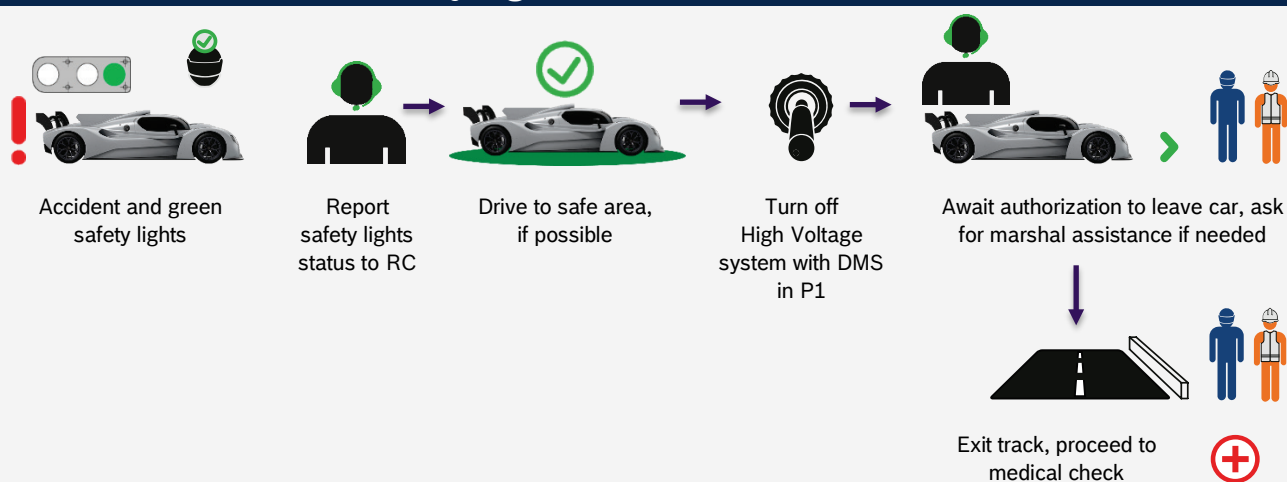
Electronic Brake System EBS



Stopping car in a safe place



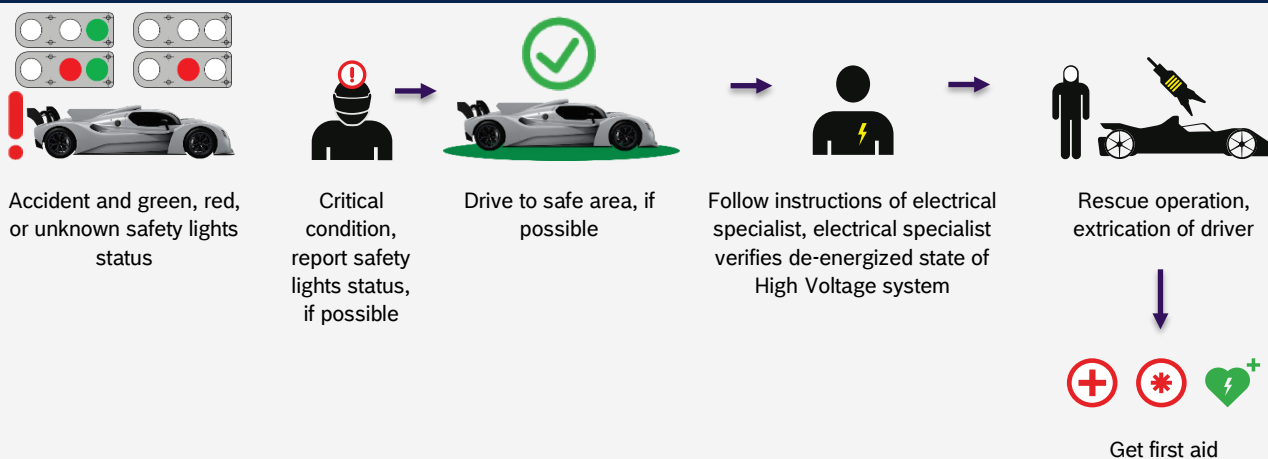
Driver Protocol - Green Safety Light Status



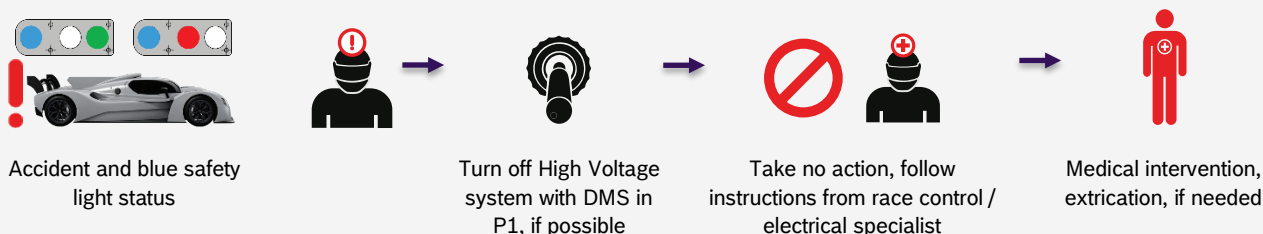
Driver Protocol - Red Safety Light Status or unknown Safety Light Status



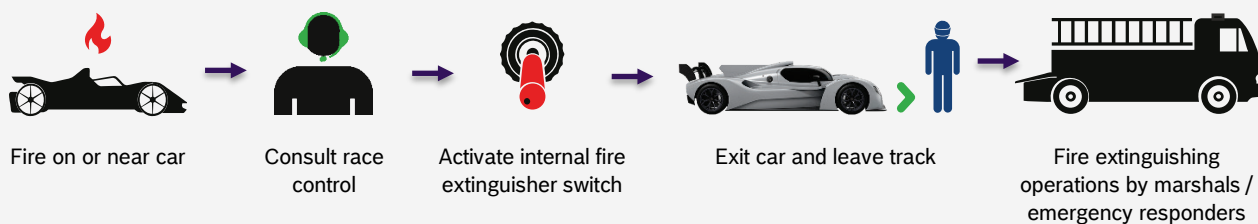
Driver Protocol – Critical Condition – Green, Red or unknown Safety Light Condition



Driver Protocol – Blue Safety Light Status



Reaction in the Event of Fire – Not HV-Battery in ESS



Reaction in the Event of Fire, Smoke, or Thermal Runaway – HV Battery in ESS

