



Track Marshal/Intervenor Handout V2.1

Purpose

This work instruction applies to Marshals in the pitlane and on the racetrack for a safe behaviour during the activities and in case of fire or chemical leakage. Interactions with the race car can cause electrical injuries:

electric shock, electric arc, electric discharge as well as chemical risks and the risk of fire.

General Information



Accident, specific incident or malfunction on the car



Don't touch the vehicle, if situation is unclear



Keep safety distance, if situation is unclear



Contact race control, if situation is unclear

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



Highly visible, fire-resistant clothes



Robust shoes with insulated sole



Electrical safety gloves, class 0



Leather gloves

Emergency Equipment - Fire



Car internal fire extinguisher



Class ABC fire extinguisher



H2O fire extinguisher

Safety Equipment



Visible sign on the car

Emergency Equipment - Chemicals



Nitrile gloves



Protective goggle



Chemical binder (sand, earth, or vermiculite)

Important Components on the Racecar

Motor Generator Unit MGU
& Gearbox

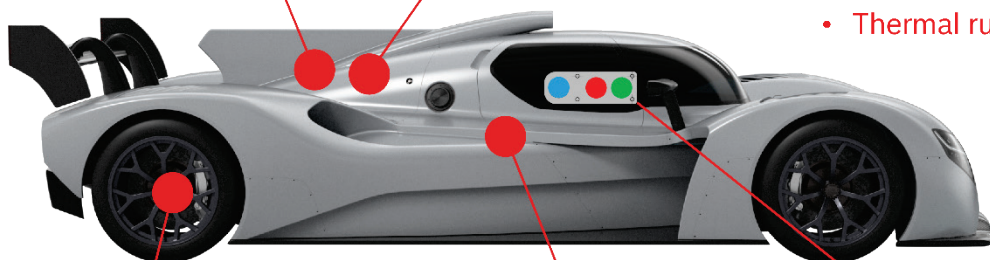


Energy Storage System ESS
& Motor Control Unit MCU



- Electric shock
- Electric arc
- Risk of fire

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



Electronic Brake System EBS



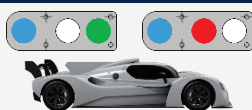
Hybrid Control Unit HCU

Safety Lights
on both sides
of the cockpit

Procedure in the Event of an Accident



Intervention on racetrack



Evaluation of the safety lights status



Assisting the driver



Push the car to a safe area
and clear the track



Assisting Recovery
Operations

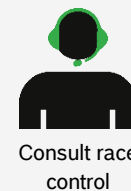
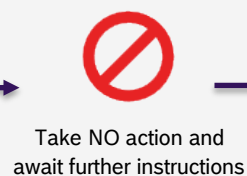
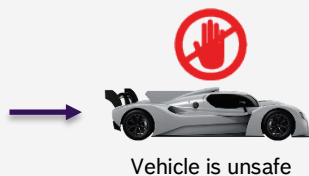
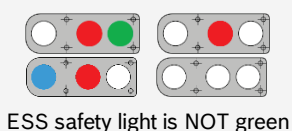
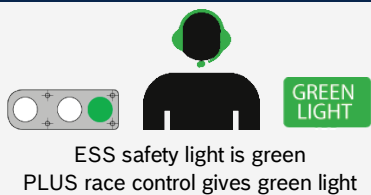


Track cleaning process

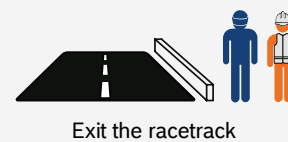
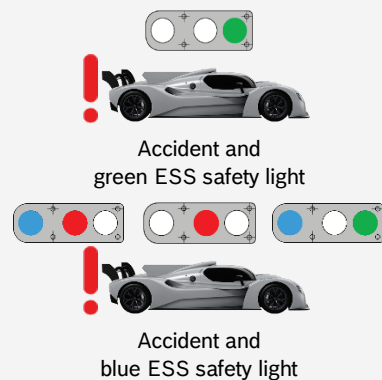


Fire extinguishing
operations

Evaluation of the Safety Indicator Status Lights



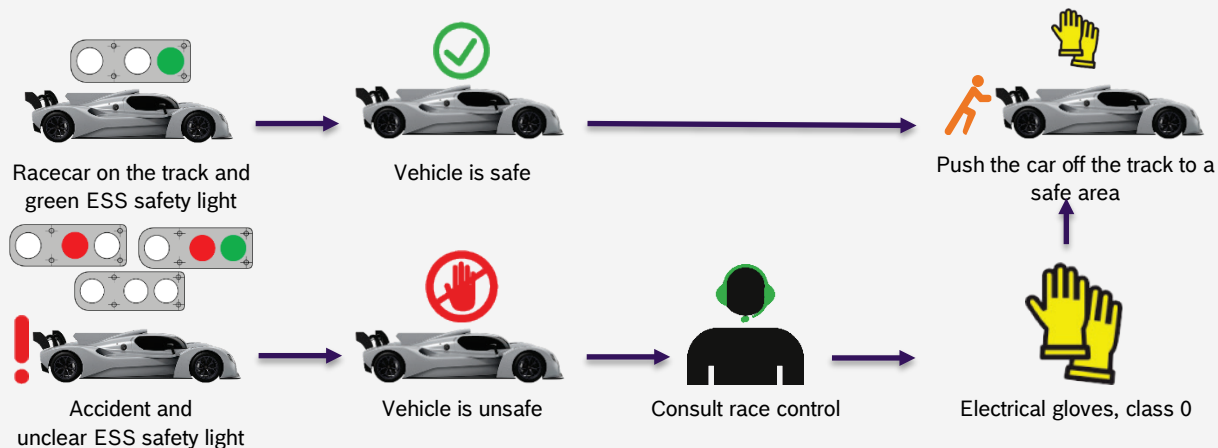
Assisting the Driver



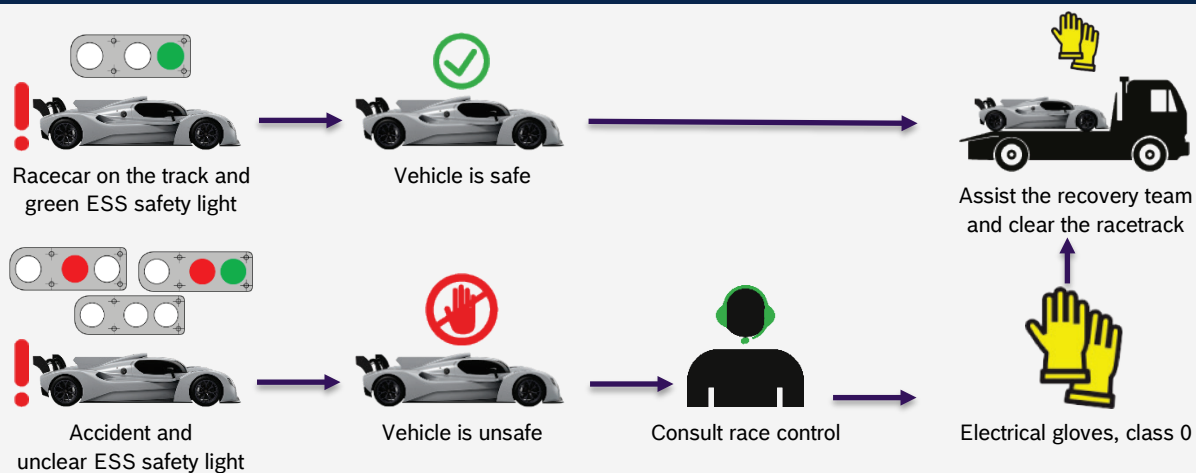
Take NO action and
await further instructions



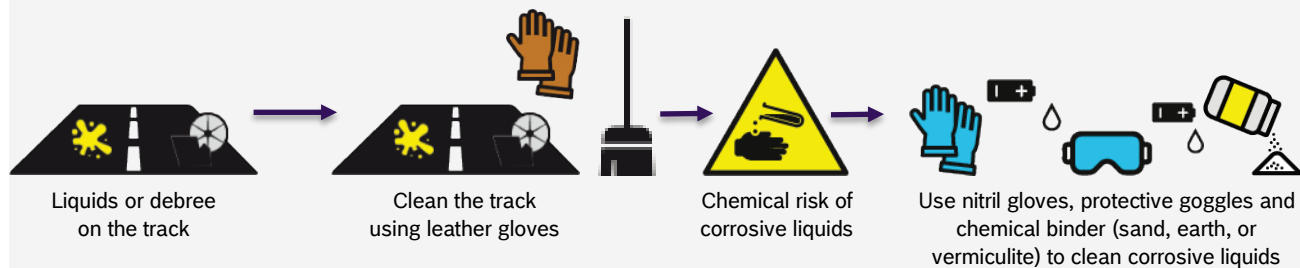
Push the Car and clear off the Track or Pitlane



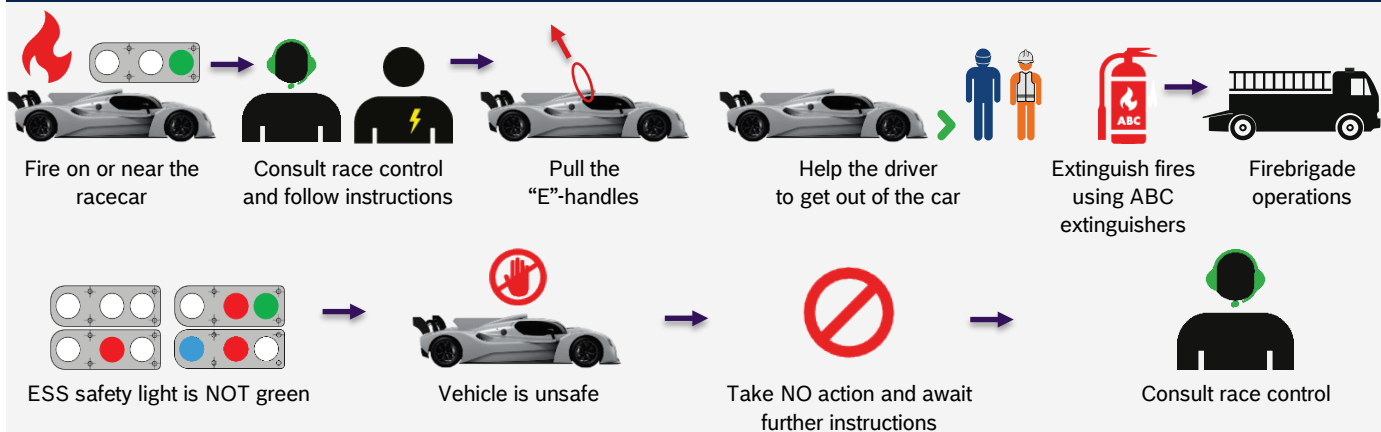
Assisting Recovery Operations to clear the Racetrack or Pitlane



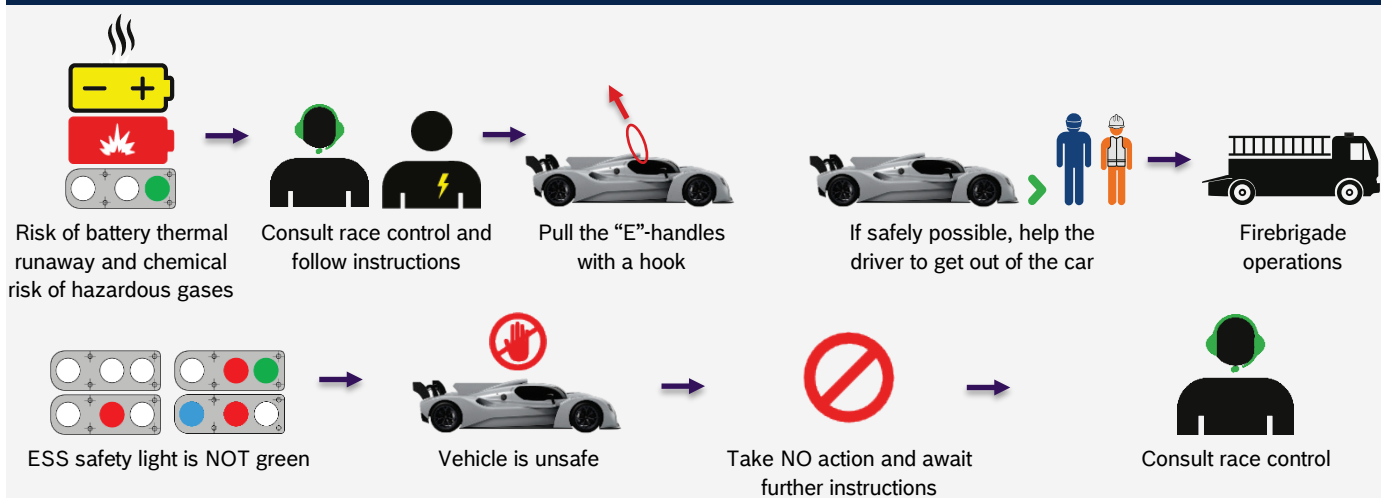
Track Cleaning Process



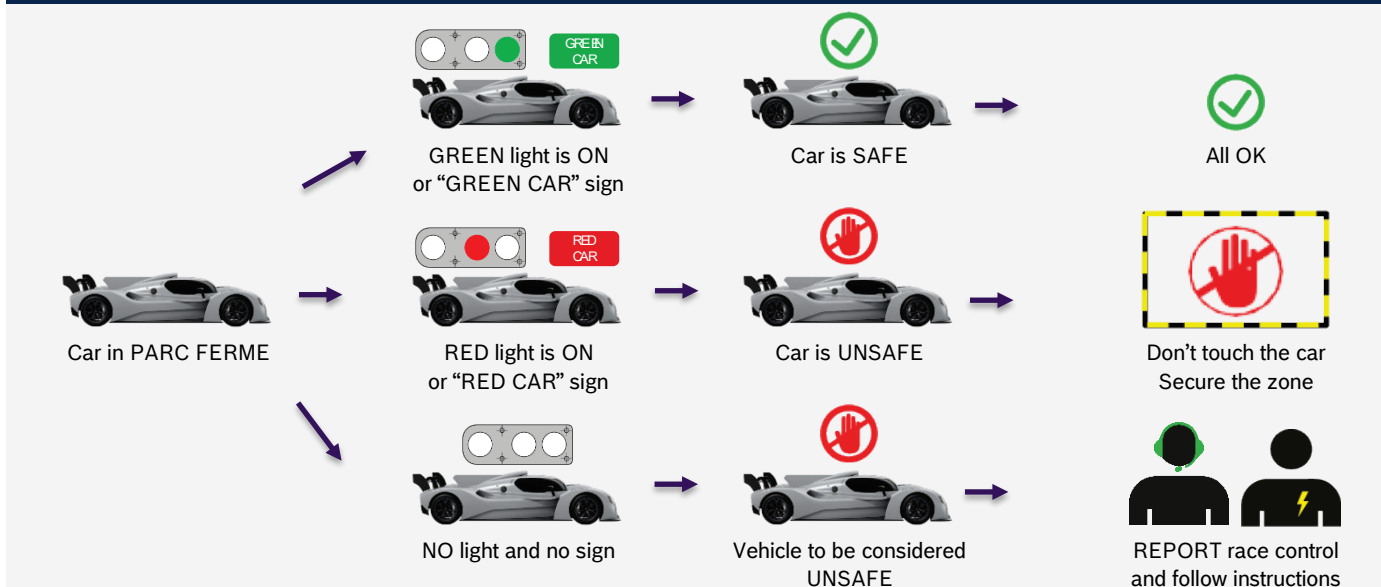
Behavior in the Event of Fire – Not HV-Battery ESS



Behavior in the Event of Battery Thermal Runaway, Smoke or Fire - Battery ESS



PARC FERME



CHANGE LOG

New Version No	Old Version No	Change	Date
2.0	/	H2O fire extinguisher added Document headline changed from LMDh Work Safety Instructions Marshals Operations to Track Marshal/Intervenor Handout	2022/08/16
2.1	2.0	Change log added Behavior in the Event of Fire – Not HV- Battery ESS 1. Pull “E” handles 2. Help driver (Two steps instead of one before)	2022/08/31