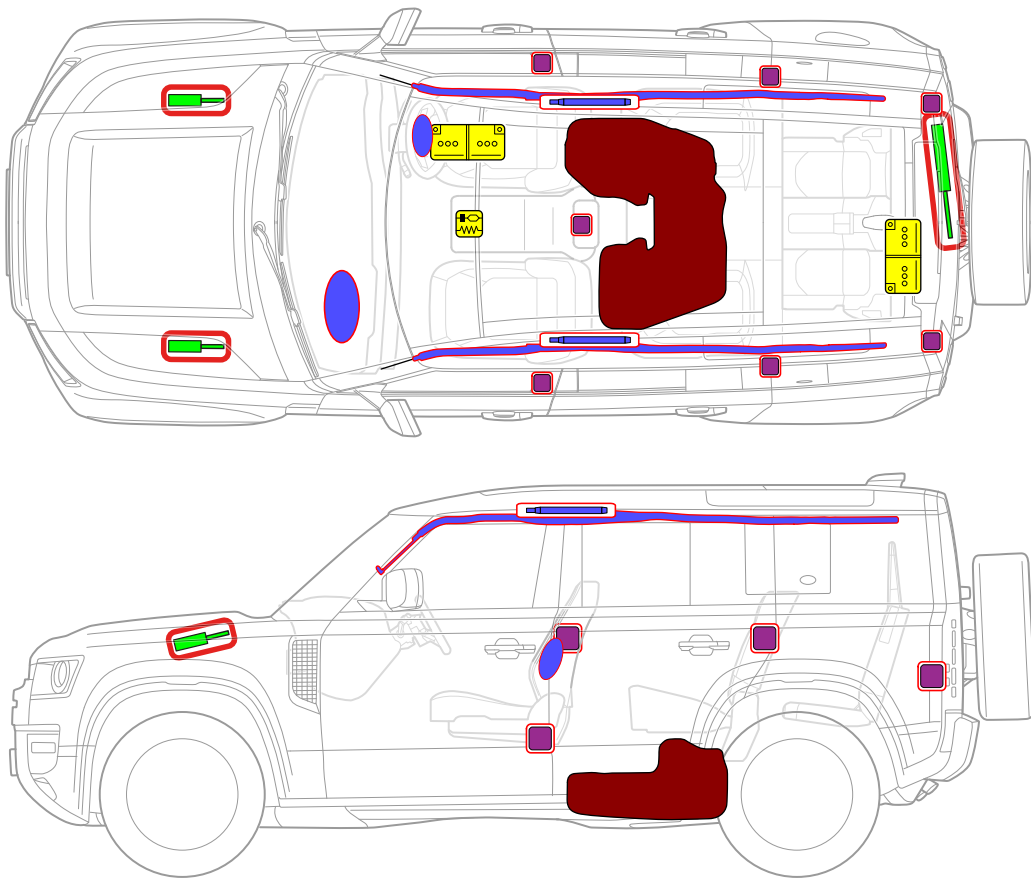




LAND ROVER DEFENDER (L663)
110, 5 DOOR
2020 -



Legend

	Airbag		Stored gas inflator		Seat belt pretensioner		SRS control unit		Pedestrian protection active system
	Automatic rollover protection system		Gas strut / Preloaded spring		High strength zone		Zone requiring special attention		
	Battery, low voltage		Ultra capacitor, low voltage		Fuel tank		Gas tank		Safety valve
	High voltage battery pack		High voltage power cable / component		High voltage disconnect		Fuse box disabling high voltage system		Ultra capacitor' high voltage

ID No

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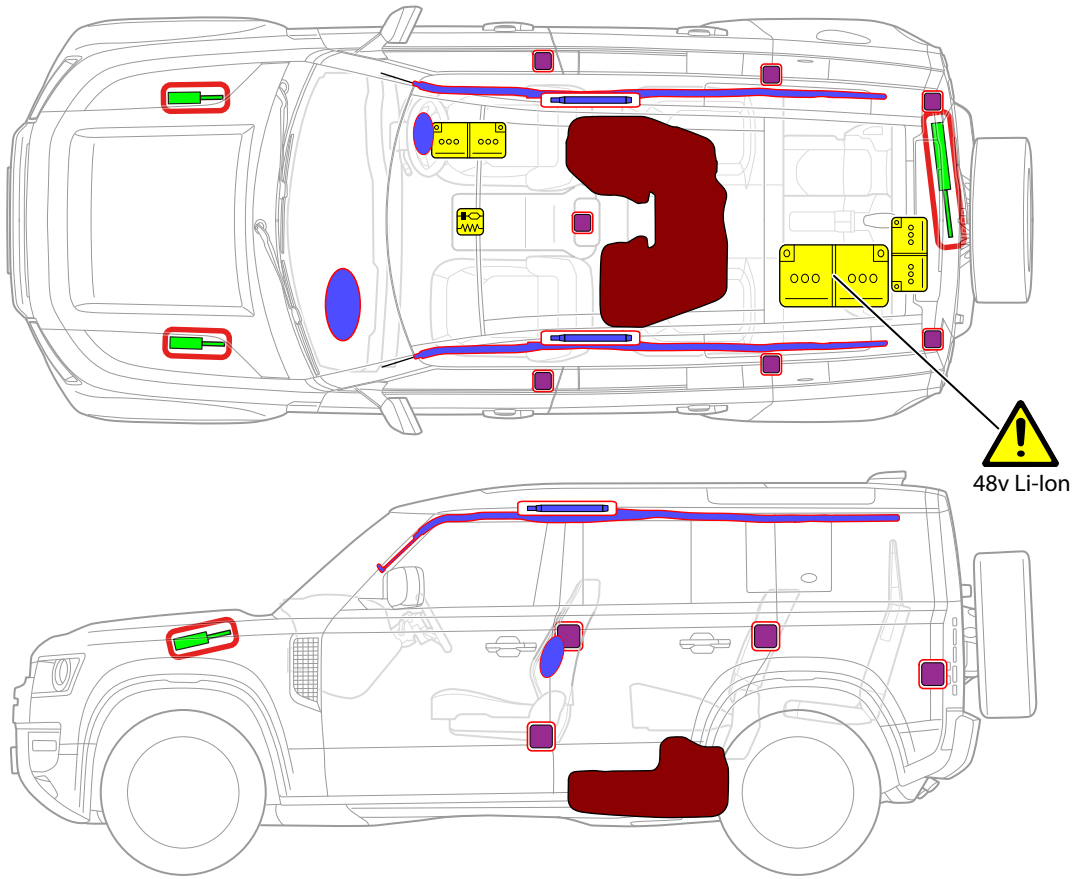
ERG663

1.0

1 of 1



LAND ROVER DEFENDER (L663)
110, 5 DOOR, MHEV
2020 -



Legend

	Airbag		Stored gas inflator		Seat belt pretensioner		SRS control unit		Pedestrian protection active system
	Automatic rollover protection system		Gas strut / Preloaded spring		High strength zone		Zone requiring special attention		
	Battery, low voltage		Ultra capacitor, low voltage		Fuel tank		Gas tank		Safety valve
	High voltage battery pack		High voltage power cable / component		High voltage disconnect		Fuse box disabling high voltage system		Ultra capacitor high voltage

ID No

Version No

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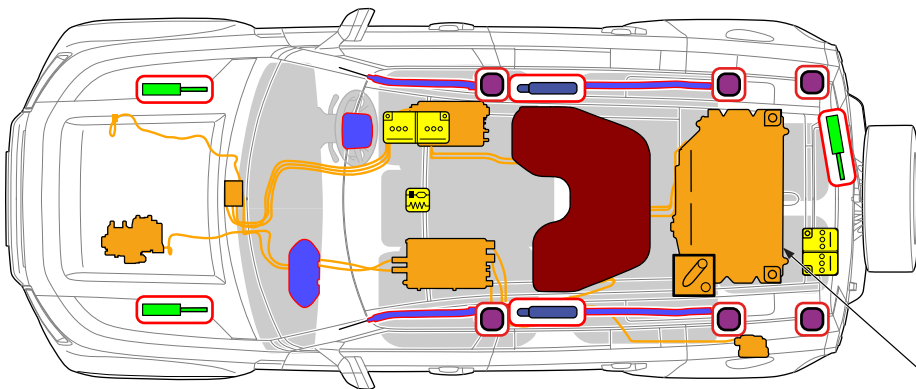
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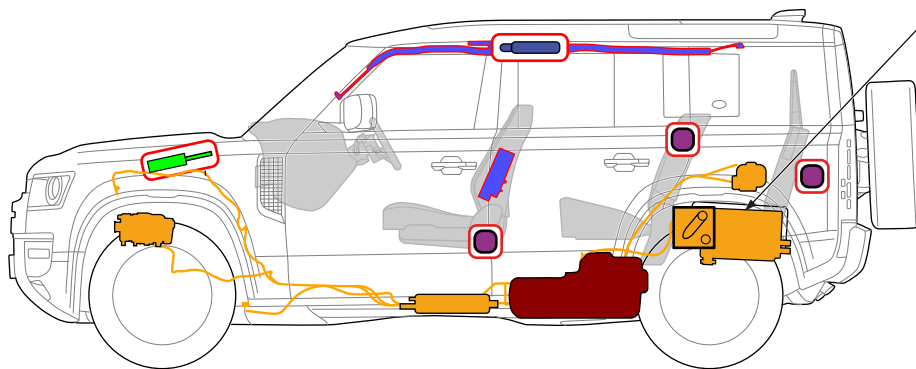
1 of 2



LAND ROVER DEFENDER (L663)
110, 5 DOOR, PHEV
2021-



388.8v
Li-ion



Legend

	Airbag		Stored gas inflator		Seat belt pretensioner		SRS control unit		Pedestrian protection active system
	Automatic rollover protection system		Gas strut / Preloaded spring		High strength zone		Zone requiring special attention		
	Battery, low voltage		Ultra capacitor, low voltage		Fuel tank		Gas tank		Safety valve
	High voltage battery pack		High voltage power cable / component		High voltage disconnect		Fuse box disabling high voltage system		Ultra capacitor high voltage

ID No

Version No

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1 of 4



1. IDENTIFICATION / RECOGNITION

Land Rover Defender PHEV models can be identified by the following badge fitted to vehicle.
LACK OF ENGINE NOISE DOES NOT MEAN VEHICLE IS OFF. SILENT MOVEMENT OR INSTANT RESTART CAPABILITY EXISTS UNTIL VEHICLE IS FULLY SHUT DOWN. WEAR APPROPRIATE PPE.



2. IMMOBILISATION / STABILISATION / LIFTING

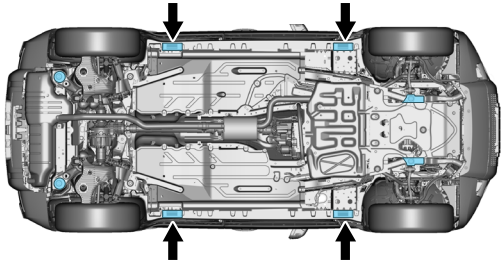
Immobilise the vehicle

1. Chock the wheels.
2. When the **P** button is pressed, the transmission engages park (**P**) and the EPB applies to help secure the vehicle.



Vehicle lifting and jacking.

Only lift or jack the vehicle using the jacking points shown in the illustration below.



Do not place cribbing such as wooden blocks or rescue air lifting bags under the exhaust system or fuel system. doing so may result in fuel leaks or fire.

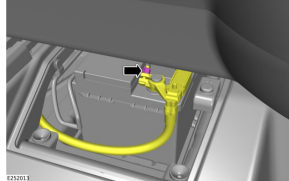
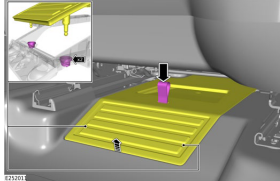
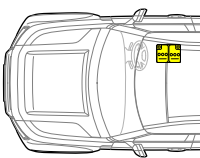
3. DISABLE DIRECT HAZARDS / SAFETY REGULATIONS

Perform the procedure to completely shut off the vehicle.

1. Switch off ignition. 2. Remove all smart keys from the vehicle and store at least 5 metres away. 3. Move the right seat forward. 4. Remove the start-up battery access panel. 5. Disconnect the start-up battery.



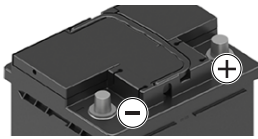
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4



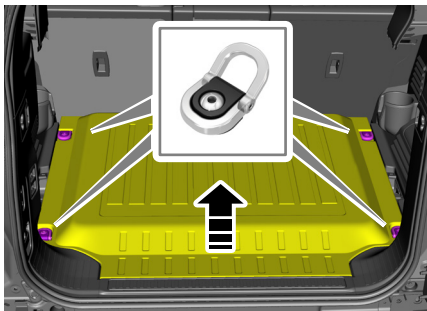
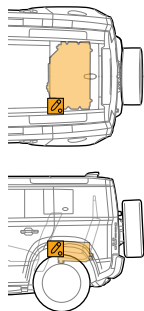
Always disconnect the negative terminal first and reconnect last. Failure to do so may lead to an electrical shock, resulting in injury.



Removing the Master Service Disconnect (MSD) from the High Voltage battery



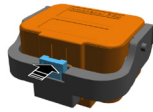
When removing the MSD from the High Voltage battery, Class 0 Personal Protective Equipment (PPE) must be worn. Remove the loadspace cover and Follow the 4 stage process shown to remove the MSD from the High Voltage battery



1



2



3



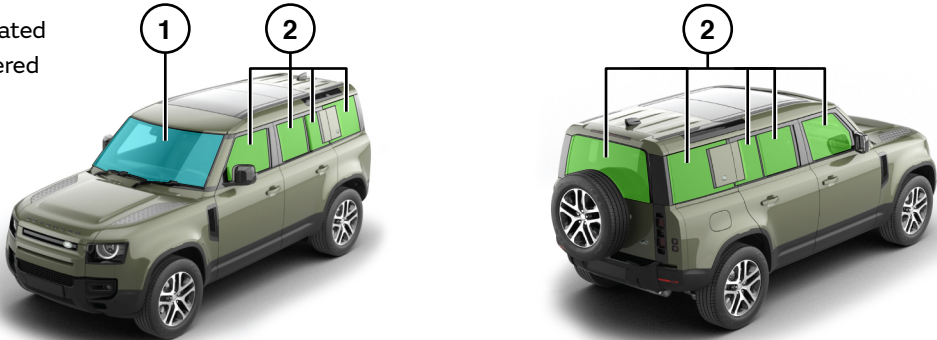
4





4. ACCESS TO THE OCCUPANTS

- 1. Laminated
- 2. Tempered



5. STORED ENERGY / LIQUIDS / GASES / SOLIDS

	Battery						12v
	High voltage battery pack						388.8 v
	Fuel Tank						91.1 l
	Coolant						16.8 l



When coolant leaks from the battery pack, it can become unstable with risk of thermal runaway. Check battery pack temperature with thermal imaging camera.



6. IN CASE OF FIRE

In the event of a fault, damage, or fire affecting an electric or hybrid vehicle:



1. Always remember that the high voltage battery, subsystems, and components are energised and fully charged.
2. The high voltage battery, cables, and exposed electrical component pose a potential risk of electric shock.

Small vehicle fires, that do not involve the High Voltage (HV) system, can be treated with normal firefighting methods.



A PHEV battery involved in a fire, or exposed to high heat levels, will release toxic vapours. These vapours include sulfuric acid, oxides of carbon, nickel, lithium, copper, and cobalt. Responders must protect themselves with full PPE and breathing apparatus.



If the PHEV battery or components within the HV system are subject to fire or high heat levels, the HV system must be treated as UNSAFE, therefore, sufficient PPE must be worn and any contact with the vehicle is to be avoided.



Areas exposed to fire or high heat must be treated using high volumes of water, DO NOT attempt to extinguish a HV system fire without sufficient water supply.

The HV system has it's own coolant which is glycol based coolant. If the system is damaged, this orange coolant can leak out of the battery or surrounding components.



An Infrared camera should be used to monitor the temperature of the PHEV battery.



7. IN CASE OF SUBMERSION

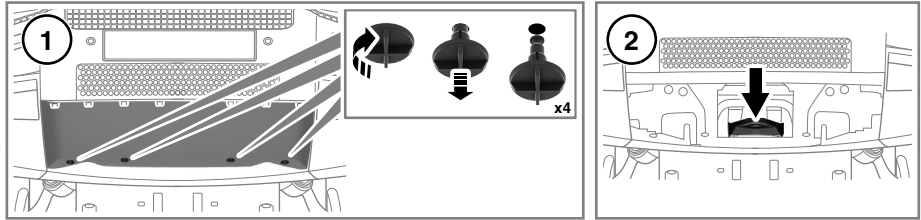
Work on the vehicle only after it has been removed from the water.

8. TOWING / TRANSPORTATION / STORAGE

Front towing eye

The front towing point is located behind a removable cover in the lower front bumper. To remove the cover:

1. Rotate each of the fasteners counterclockwise with a suitable tool, to release the lower edge of the cover.
2. Pull the cover forward from the rear lower edge to release the lower tabs and the lugs on the top edge of the cover.

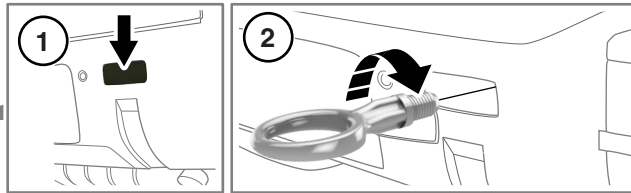


Rear towing eye

The vehicle's rear towing eye socket is located behind the rear bumper cover.

To fit the towing eye:

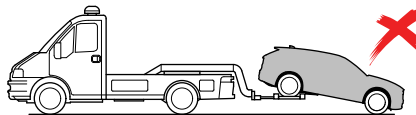
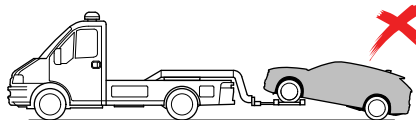
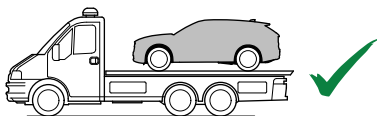
1. To remove the cover, lever the left-hand side of the cover outward from the bumper.
2. The vehicle's rear towing eye is located underneath the loadspace floor. Screw the towing eye into the aperture located behind the rear bumper cover.



Recovery method

Transporter or trailer:

The recommended method for recovery or transportation of the vehicle is on a transporter or trailer designed for that purpose.



If the vehicle cannot be recovered by using the recommended method, in an emergency, the vehicle can be towed on all four wheels for a short distance if it is essential. Do not tow the vehicle for more than 50 km (30 miles). Do not exceed 50 km/h (30 mph).



Straight bar tow on all wheels:

9. IMPORTANT ADDITIONAL INFORMATION

For further details, please refer to TOPIx <https://topix.jaguar.jlrext.com/>

10. EXPLANATION OF PICTOGRAMS USED



General
Warning



Warning,
Electricity



Explosive



Corrosives



Hazardous to
human health



Acute
toxicity



Flammable



Use water to
extinguish
the fire



Infrared
camera