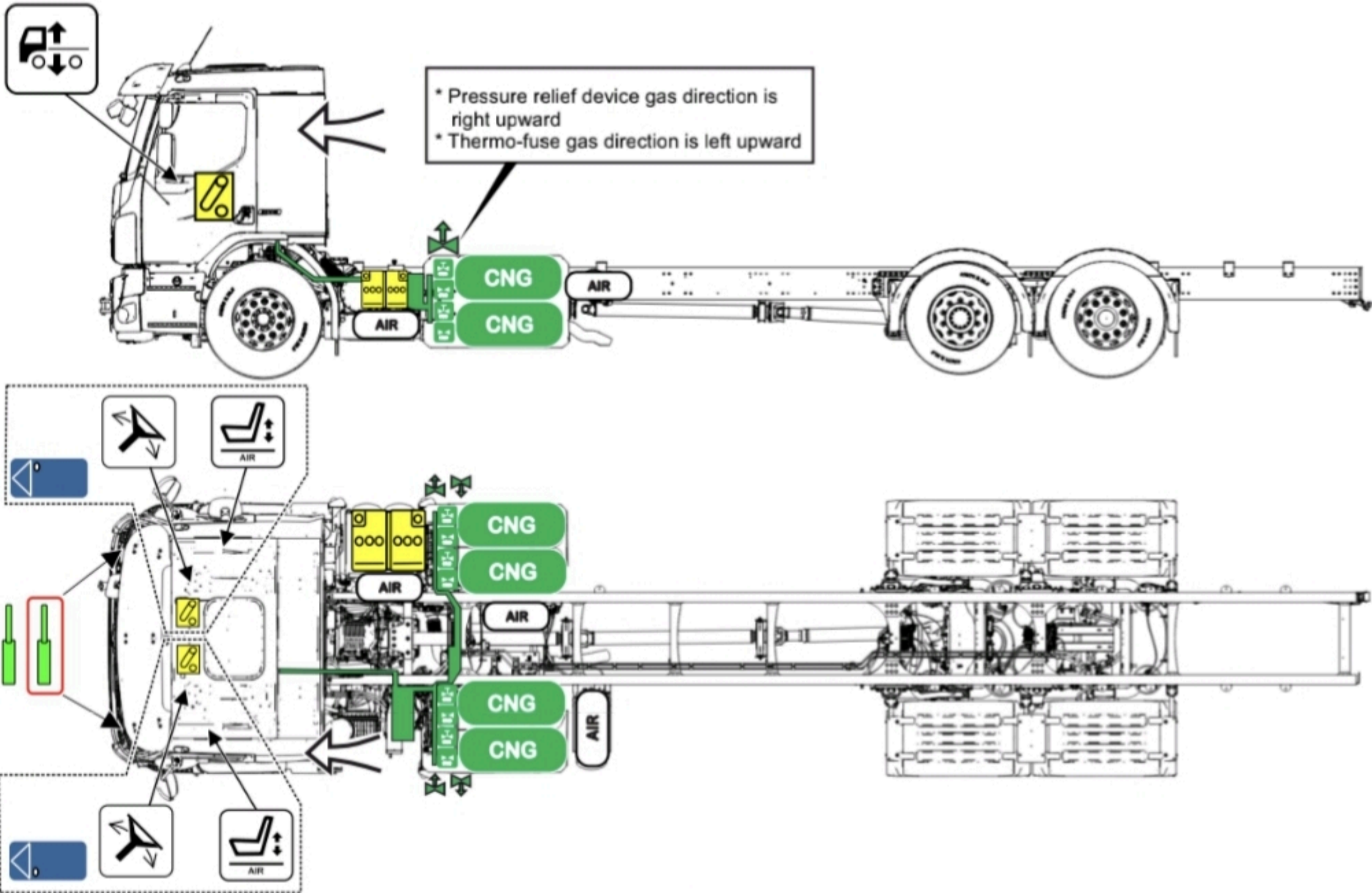





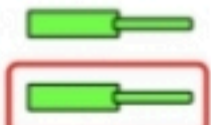


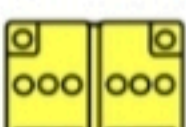








VOLVO TRUCKS
FE CNG
PRODUCTION START: 2014



 CNG (Compressed Natural Gas) tank	 Manual shut-off valve	 Pressure relief device	 Direction of gas pressure from the safety device	 Air intake	 Gas strut, pre-loaded spring	 Air tank
 Gas line	 Low-voltage battery	 Starter switch	 Seat adjustment	 Height control	 Steering wheel tilt control	

NOTE
(A) The above image shows information for one variant of this product. Number of CNG tanks (vary from 6 to 16), axles and cab structure can vary depending on the variant of the product.
(B) These instructions do not cover the safety aspects of the components and equipments mounted by a third party (example: body builders).
(C) Discrepancy may exist in the translated documents as the original document is authored in English.

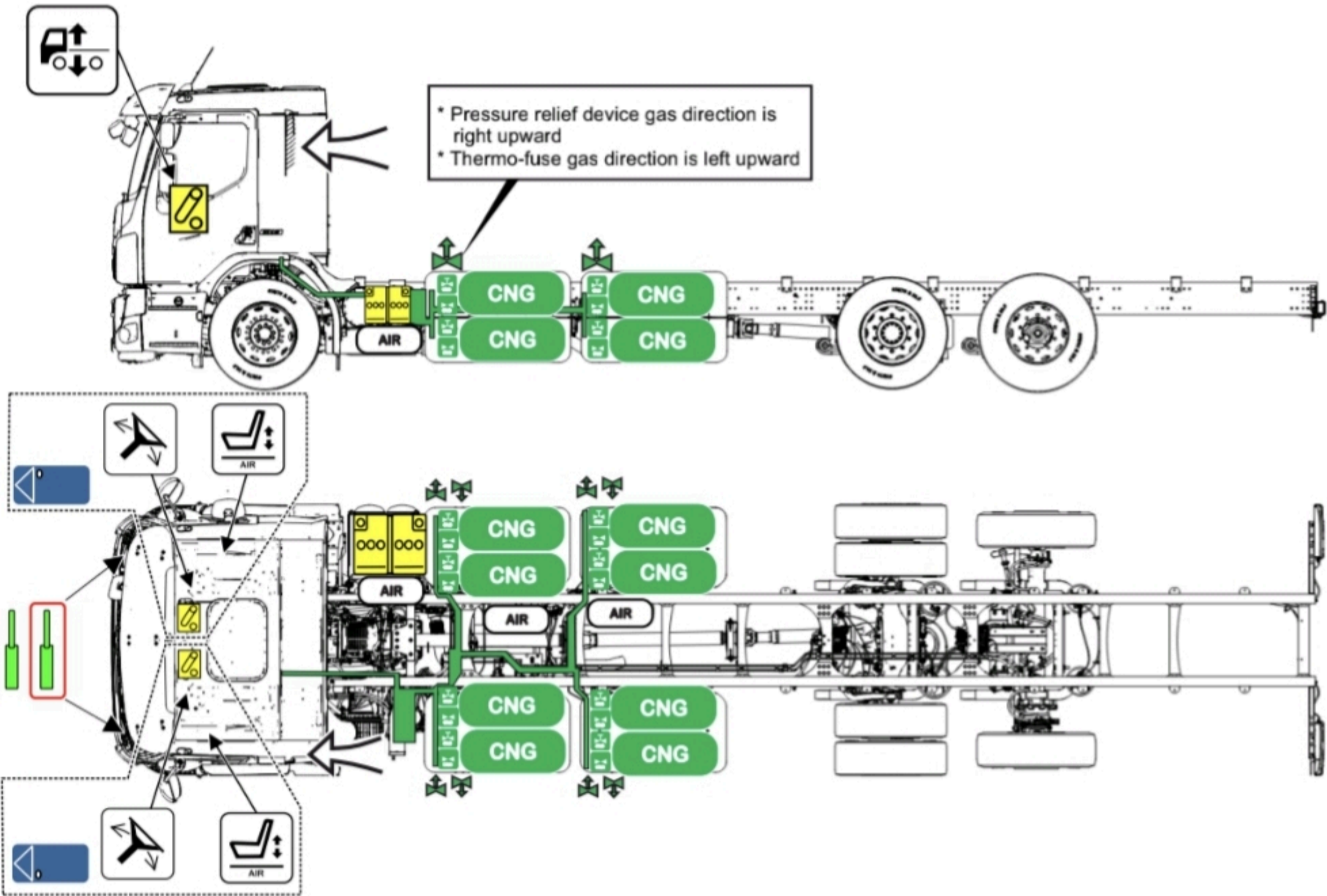
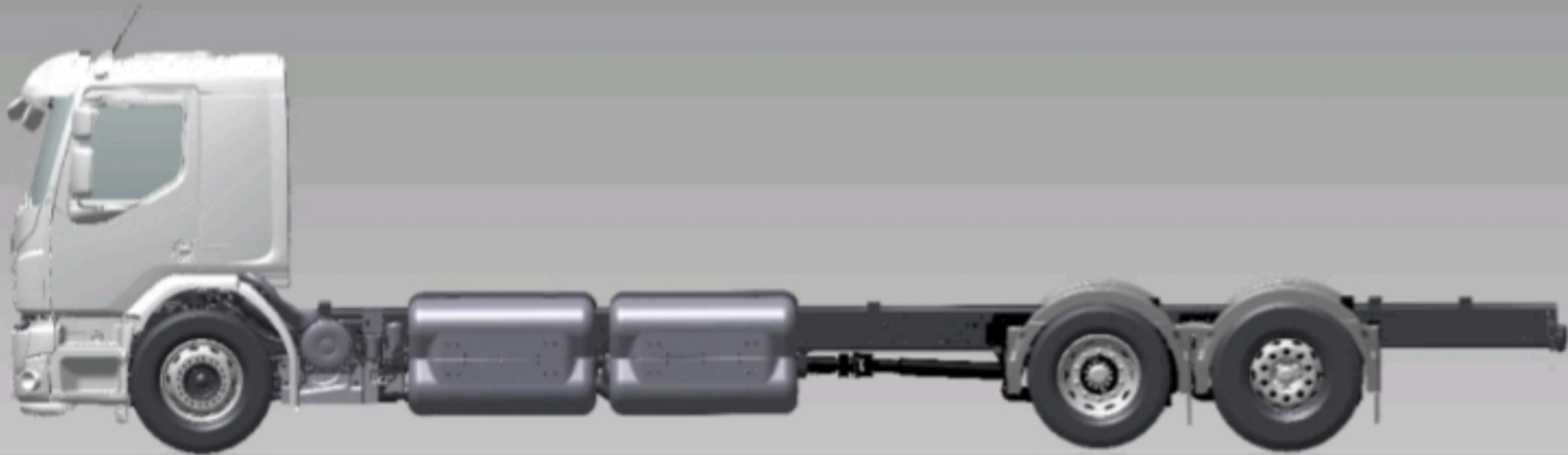
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VOLVO TRUCKS

FE CNG

PRODUCTION START: 2014

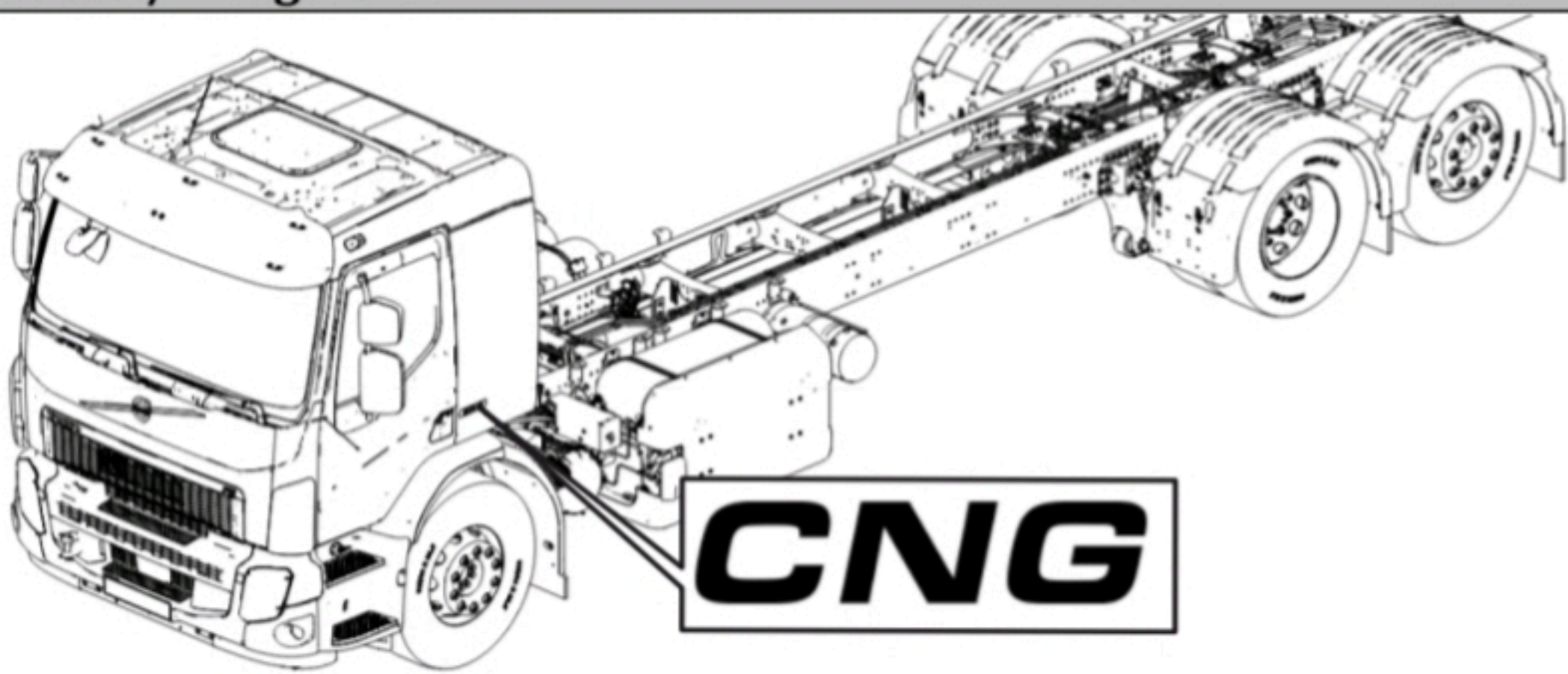


 CNG CNG (Compressed Natural Gas) tank	 CNG Manual shut-off valve	 CNG Pressure relief device	 Direction of gas pressure from the safety device	 Air intake	 Gas strut, pre-loaded spring	 AIR Air tank
 Gas line	 Low-voltage battery	 Starter switch	 Seat adjustment	 Height control	 Steering wheel tilt control	

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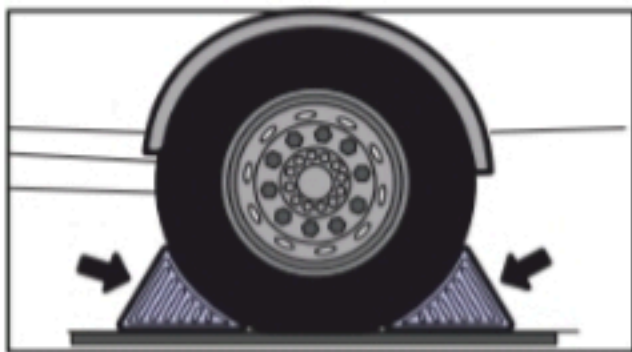
1. Identification/recognition



2. Immobilisation/stabilization/lifting

Always approach the CNG truck from behind at an angle to stay out of the potential travel path and to avoid any potential injury.

1 Chock the wheels



2 Apply the handbrake



3. Disable direct hazards/safety regulations

➡ Shutting down the truck if not equipped with ADR



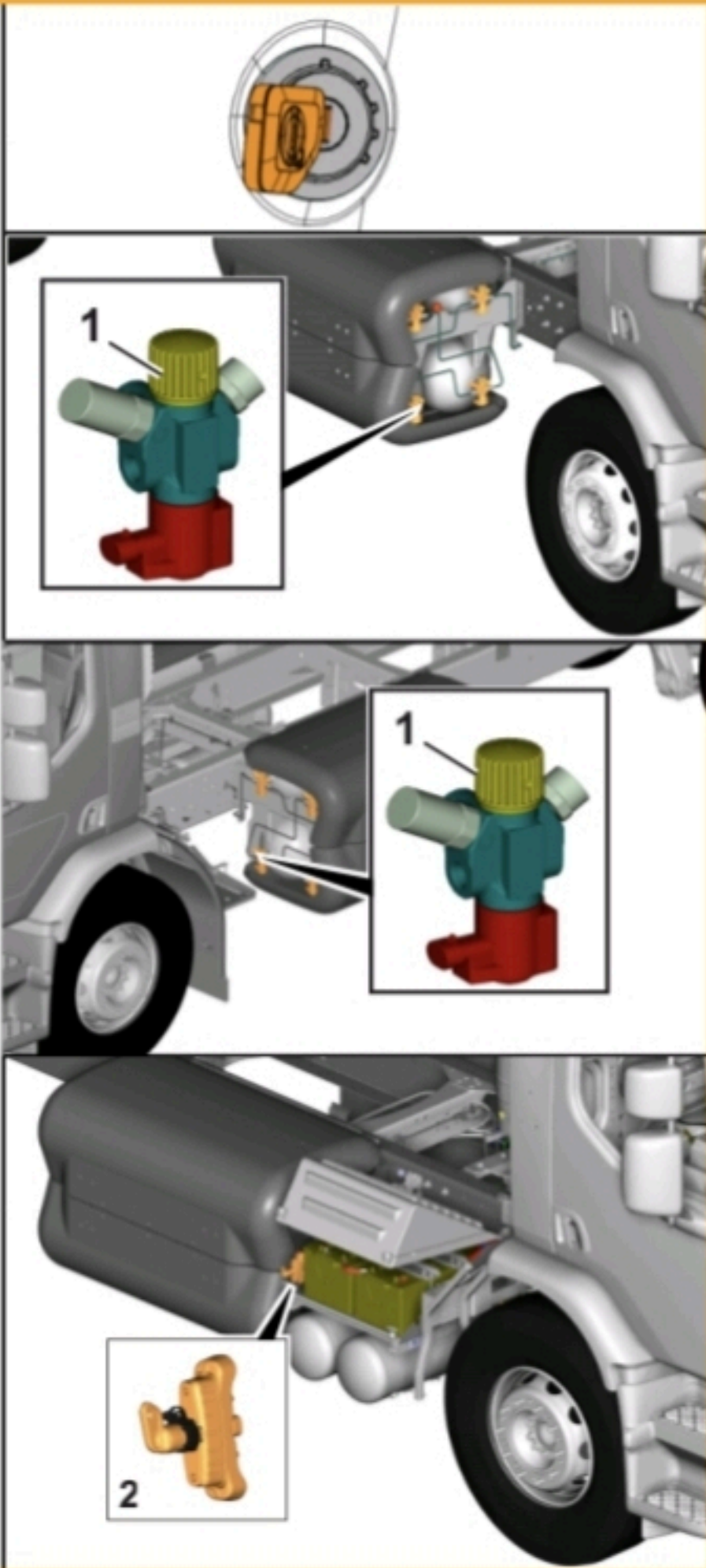
1 If possible turn off the starter switch and remove the key.




2 Close the CNG tank shut-off valves (1).


3 Turn off the battery main switch (2)

Note
Even after turning off the main switch, some circuits are still energised.



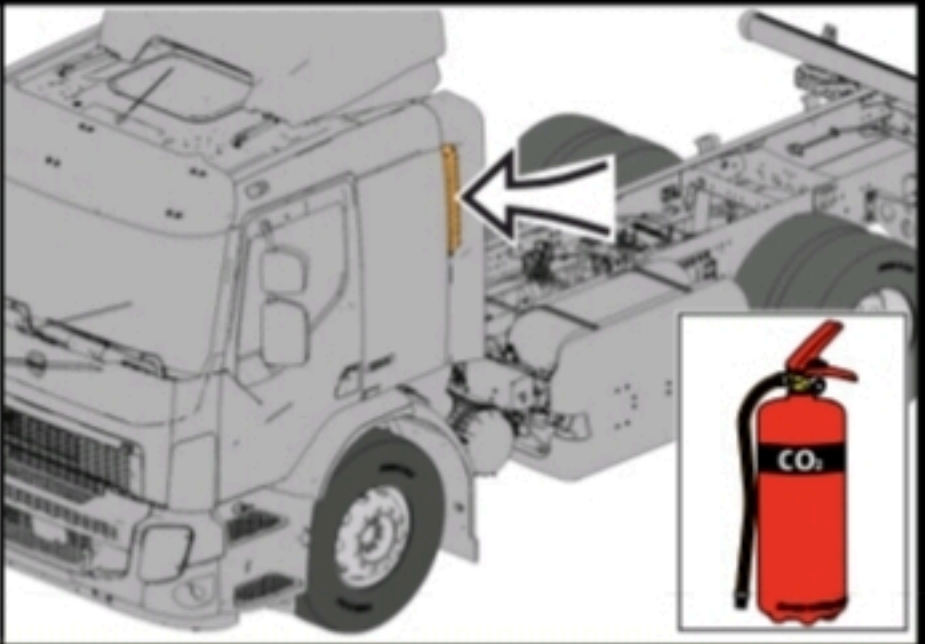
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**Shutting down the engine if manual shut-off valves are not accessible**



1




Spray CO2 from a fire extinguisher into the air intake of the engine to shutdown the engine.




4. Stored energy/liquid/gases/solid


CNG tank with maximum pressure 200 bar

CNG







High CNG leaks can be identified by a hissing sound, gas odour or by an heavy white frost around the leakage area.
Use gas detectors to identify the CNG leak.
If CNG is detected in the cab or around the CNG tanks, shut down the engine immediately.
Refer shut down procedures in “3. Disable direct hazards/safety regulations”.



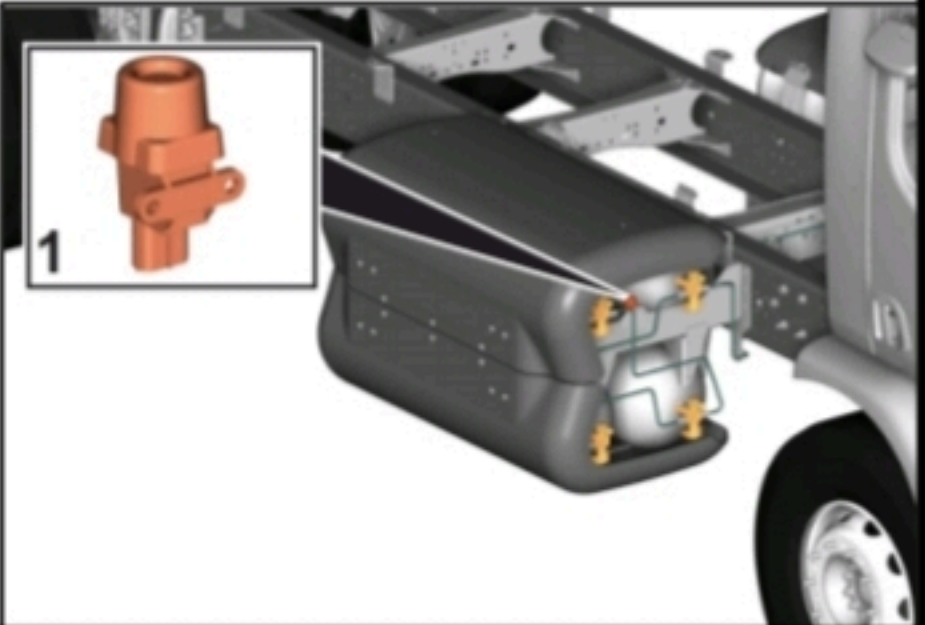
Any atmosphere with insufficient oxygen can lead to dizziness, unconsciousness, suffocation or even death. Do not perform any operation on a CNG truck with fuel leak without an appropriate Personal Protective Equipment (PPE).




Avoid flames and sparks near the truck.
In case of a confined area, try to vent out the CNG as much as possible.




Crash sensor (1) closes the pressure regulation valve and cuts off the gas flow whenever there is a CNG truck collision. (user must press the button on the crash sensor to reset it)




5. In case of fire




To reduce the risk of an increase in the tank pressure, cool the CNG tank with water.



Do not attempt to extinguish a fire involving CNG before the source of the fuel is shut off.



When the temperature exceeds above $110 \pm 10^{\circ}\text{C}$,The thermo-fuse (1) inside the CNG tank valves melts and release the CNG to the atmosphere.
When the pressure exceeds above 34 Mpa, the pressure relief device (2) in the CNG tank release the CNG to the atmosphere.



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6. In case of water submersion



The degree of damage of a submerged truck may not be visible.

Handling a submerged truck without an appropriate Personal Protective Equipment (PPE) may result in serious injury or death.

If possible, disable direct hazards (Refer to “3. Disable direct hazards/safety regulations”).

7. Towing/transportation/storage



It is not recommended to tow a CNG fuelled truck if there is a leak of CNG, take guidance from emergency response personnel before towing.

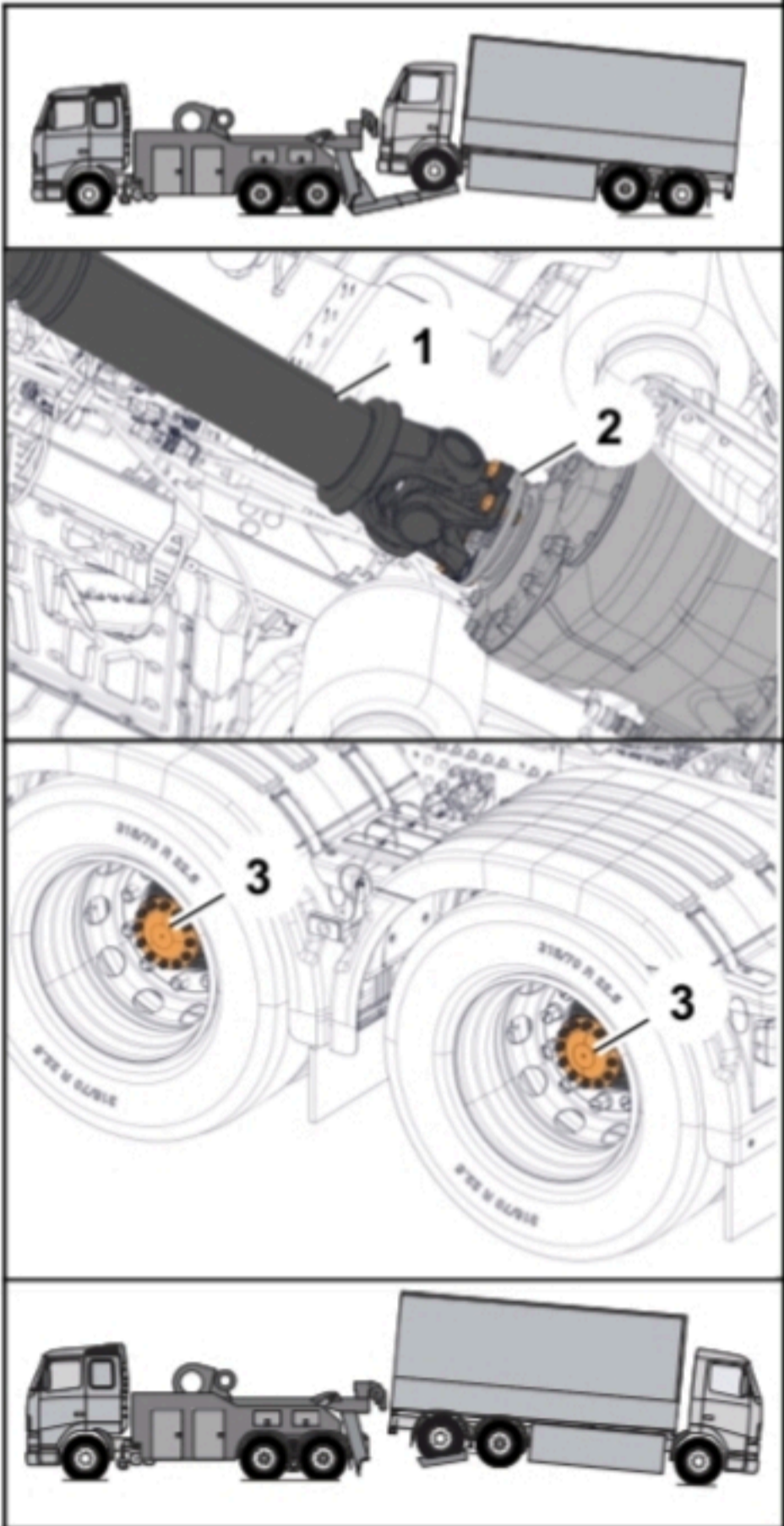


It is recommended to tow an CNG fueled truck with the rear wheels on the ground.

Before towing an CNG truck with rear wheels on the ground, it is mandatory to disconnect the drive to the wheels.

The drive to the wheels is disabled by either uncoupling the propeller shaft (1) from the driven axle (2) or by removing the drive shafts (3).

Note
Moving an CNG truck with the rear wheels on the ground without disabling the drive may cause damage to the gearbox.



When an CNG truck is towed with the rear wheels lifted, lock the steering wheel.

8. Important additional information



Do not perform any operation on a CNG truck without an appropriate Personal Protective Equipment (PPE).

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