

SITRAK G7S Series Vehicles (Exported)

Driver's Manual

(4th Version)

SINOTRUK Jinan Commercial Vehicle Co., Ltd.



China National Heavy Duty Truck Group Co., Ltd.

2025.12

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Warning



WARNING!

- The vehicle should use the oil specified in this Manual, and go to a Sinotruk service station for the replacement of oil, and filter elements, as well as first maintenance and scheduled maintenance. Otherwise, if the vehicle is damaged, SINOTRUK will only provide paid services!
- The setting of the driver assistance system depends on the system configuration of the original vehicle, including but not limited to major assemblies such as engines, transmissions, retarders, brake systems, and electrical systems. Users are not allowed to modify the original vehicle, including but not limited to changing the original vehicle assembly and superstructure modification. Otherwise, the performance of the vehicle will be seriously affected, resulting in serious consequences, for which SINOTRUK only provides paid service!
- Genuine SINOTRUK air filters, diesel filters, oil filters, and other filtration components should be used to ensure the cleanliness of engine intake, fuel, and oil. Otherwise, early engine wear may occur, leading to blockage and damage of the particulate filter in the aftertreatment system. Sinotruk will only provide paid services!
- Qualified diesel fuel that meets the GB 19147 standard should be used. Otherwise, the parts and components of the high-pressure common rail system, such as high-pressure oil pump and fuel injector will be damaged. The fuel injection unit may also be damaged, resulting in poisoning and failure of the aftertreatment oxidation catalyst, blockage and failure of the particulate filter, and excessive exhaust emissions!
- The exhaust gas temperature is high during active regeneration, so it is forbidden to carry out regeneration in flammable or explosive areas. During the regeneration process, the exhaust temperature is extremely high. It is strictly forbidden to approach the muffler, and it is strictly forbidden to stand or place items immediately downstream of the exhaust pipe outlet!
- AdBlue solution that meets the GB 29518 standard should be used, and the cleanliness inside the AdBlue tank should be ensured. Otherwise, the AdBlue pump and AdBlue nozzle will be blocked or even damaged, resulting in crystallization or even blockage of the selective catalytic reducer and excessive emissions!



WARNING!

–For the damage of ECU, harness assembly, fuel injector harness, generator, starter, various sensors and other parts and components caused by the fault to cut off the power supply before electric appliance operation, incorrect cleaning of the engine or unauthorized adjustment and refitting of the engine electrical system, CNHTC only provides paid service!

–It is not allowed to install electrical equipment such as air conditioners, heaters, high-power appliances, and etc., For any damage to the electrical system caused by connection of electrical load at the electrical interface where the electrical load is not allowed as specified in the "Driver's Manual", or load exceeding the manufacturer's regulations even though the electrical load is connected at the correct interface, CNHTC only provides paid services!

Vehicle

Vehicle



1

2

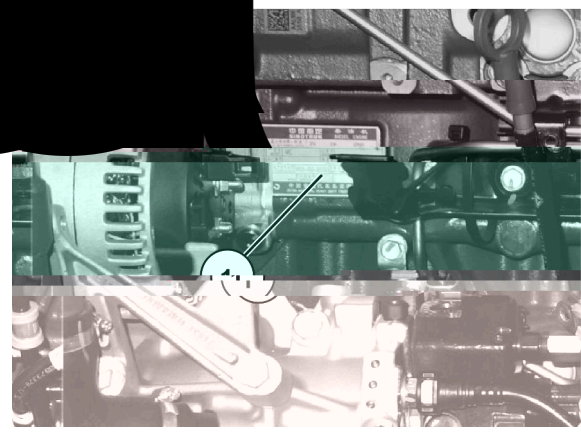
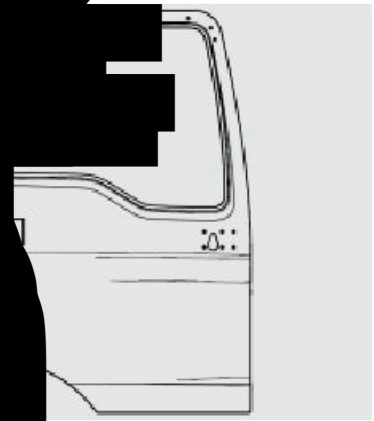
SINOTRUK Jinan Commercial Vehicle Co., Ltd.		Manufactured by
Brand		Country of manufacture
Vehicle model		
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Engine model		
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Maximum net power/speed of engine		
Vehicle curb weight		
Maximum authorized total mass		
Maximum authorized towed mass		
Manufacturing date		

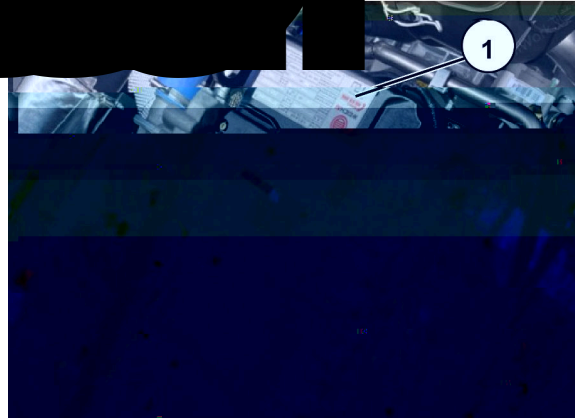
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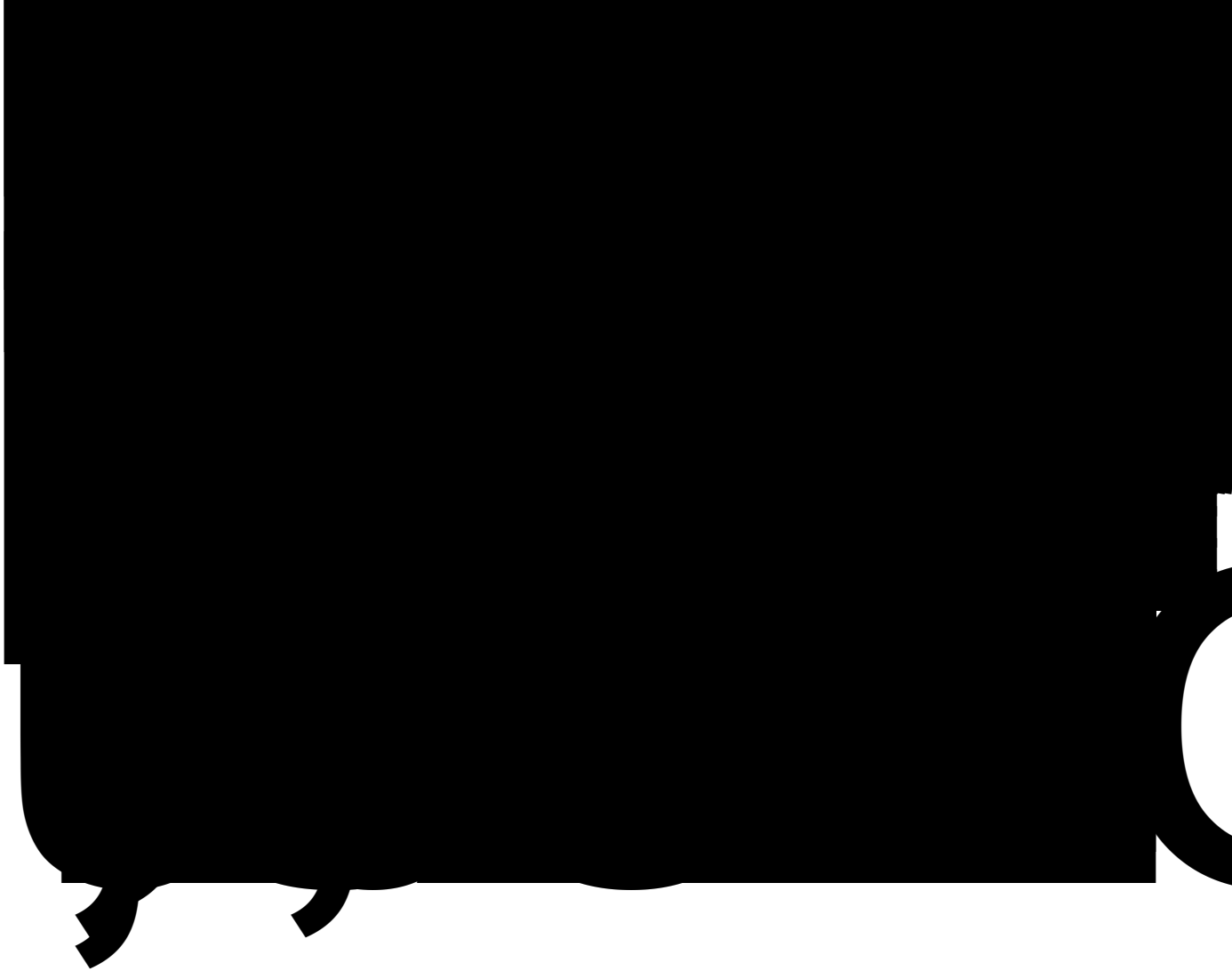




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Chapter II

Chapte

Chapte

Chapter V Vehicle I





Chapte

Chapter V para



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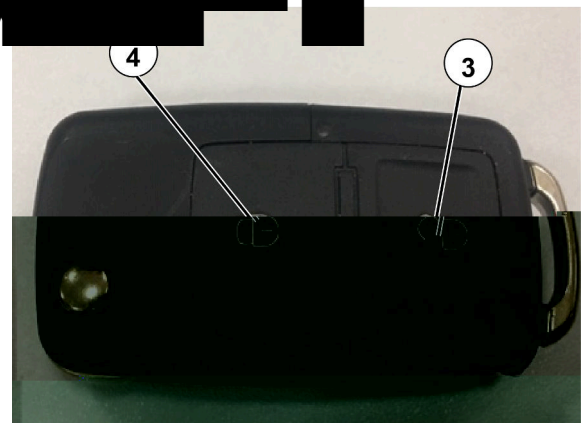
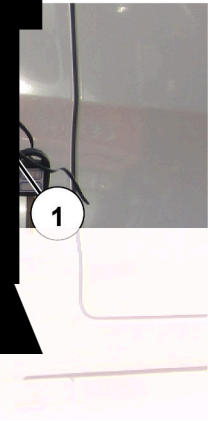
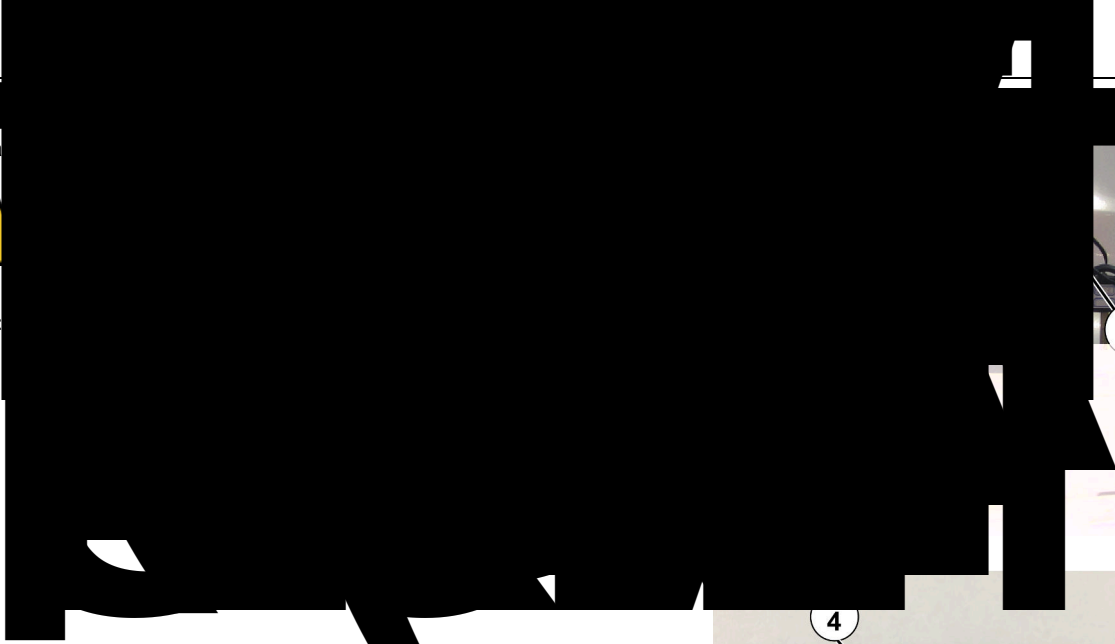
Door

Door

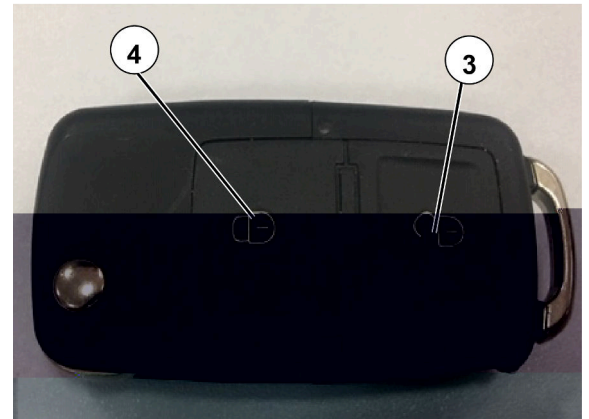
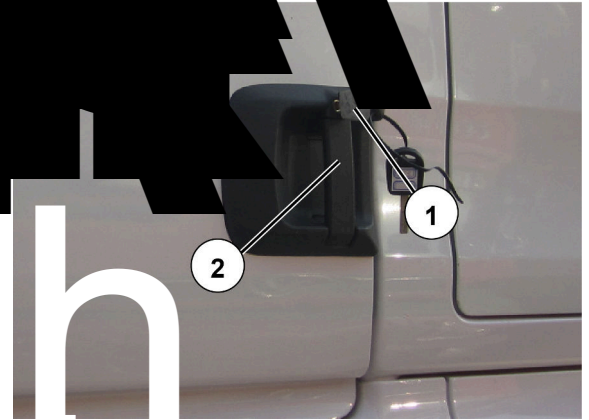
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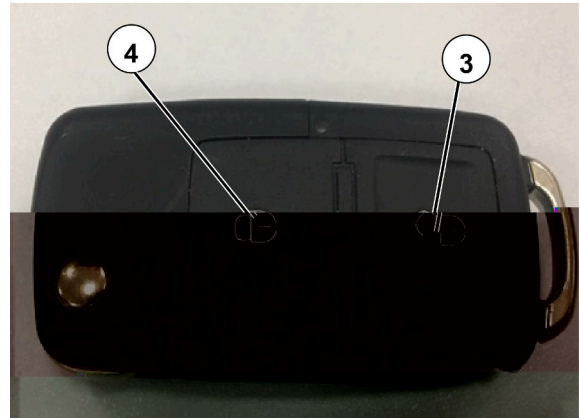


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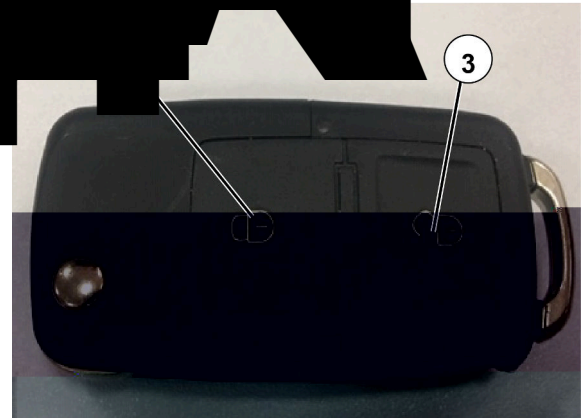
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Power

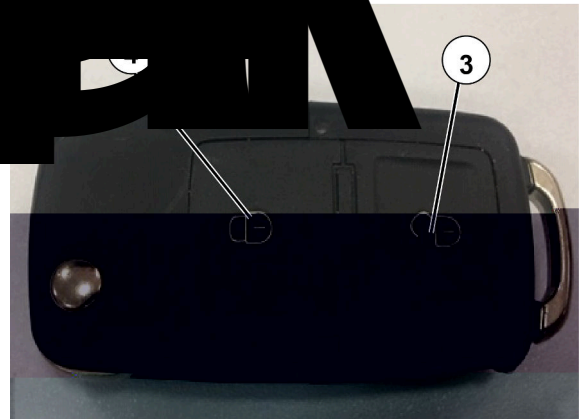
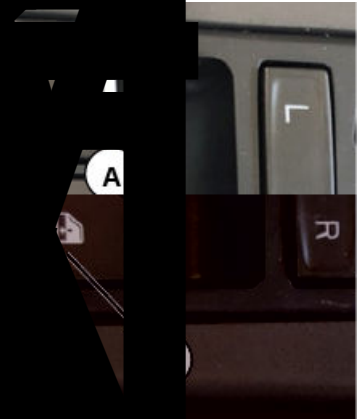
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Power window operation

Partially

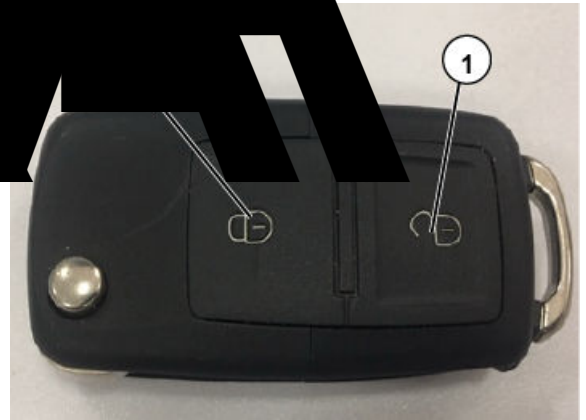


Power

Power



Key remote control
Self-injection



Electric rear-view mirror adjustment

Electric rear-view mirror adjustment



Elec

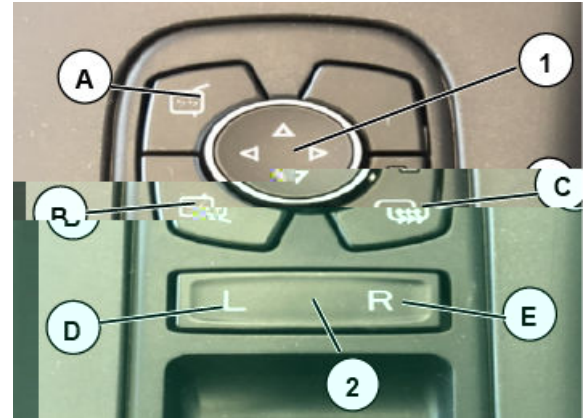


Switch on rear-view mirror heating device.



CAUTION!

- The rearview mirror heating device can only work when the vehicle is powered on.
- Turn on the rear-view mirror heating device when there is ice or frost on the rear-view mirror.
- If the voltage drops below 23V, the rearview mirror heater will fail. When the voltage returns to normal, the rearview mirror heater will not be automatically reactivated. To



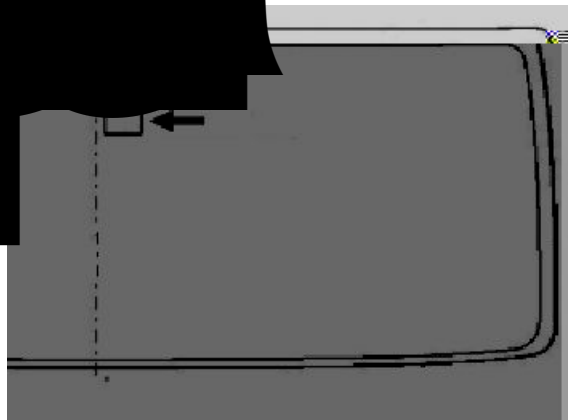
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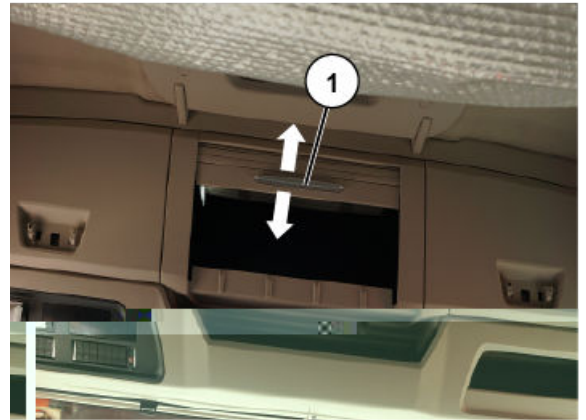
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Storage box



Storage

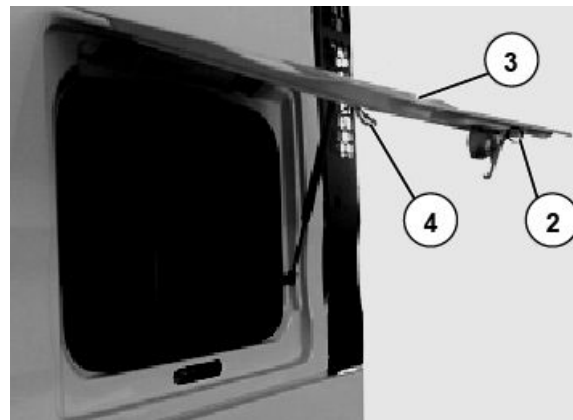
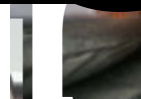
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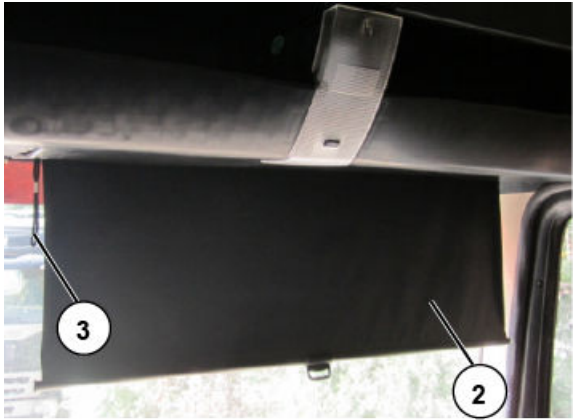
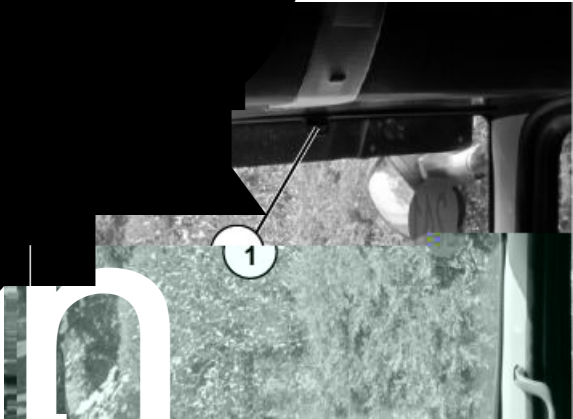




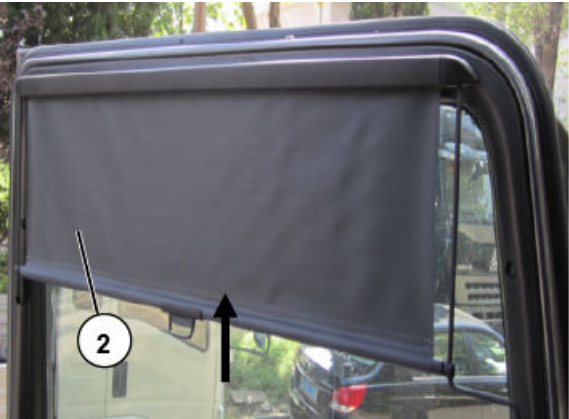
CAUTION!

- Do not use the table when the vehicle is moving.
- The load on the small table shall not exceed 3kg.



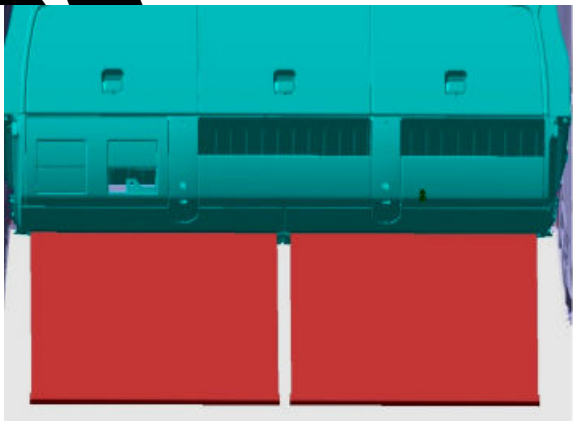


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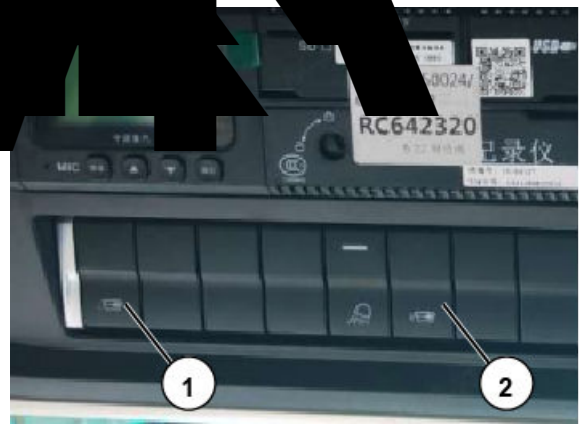


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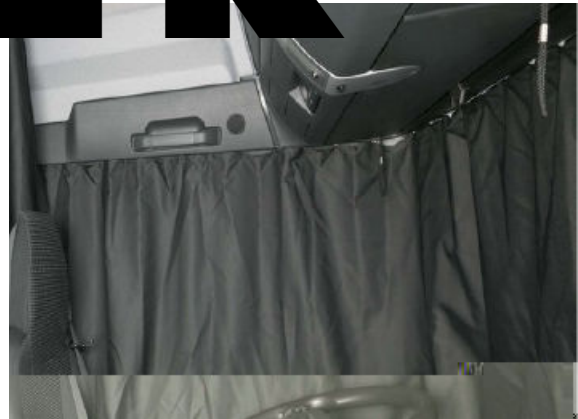
CAUTION!

Never pull the power sunshade with hand because its retraction and expansion are electrically controlled.

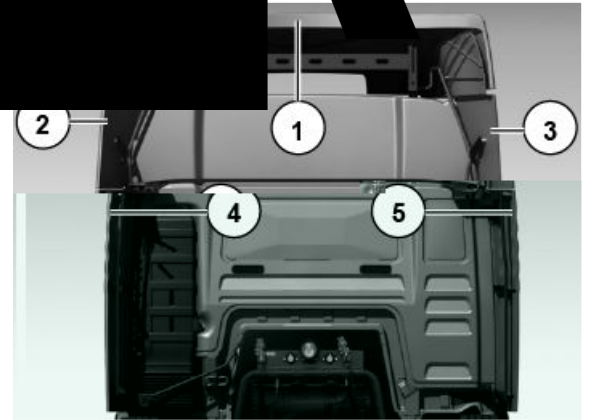


Full v

Full w



Defl



Adjustment of deflecting devices



WARNING!

–Be careful!

–When adjusting the cab-roof fairing, make sure you stand on a proper platform with adequate adhesion.

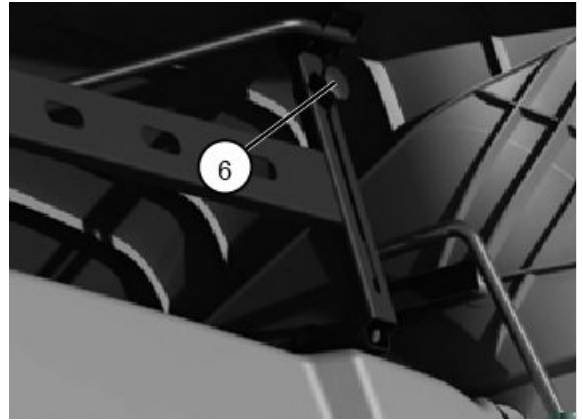
–The height of the cab-roof fairing after adjustment shall not exceed the vehicle height allowed by laws and regulations.

–If low-chassis platform cars or railway transport vehicles are used, the vehicle transport height allowed by the regulations shall not be exceeded.

–When the vehicle is used on international routes, the applicable laws and regulations of the related countries shall be followed. If necessary, the deflecting device shall be readjusted.

–Ensure that the height of the left and right sides of the deflecting device is the same.

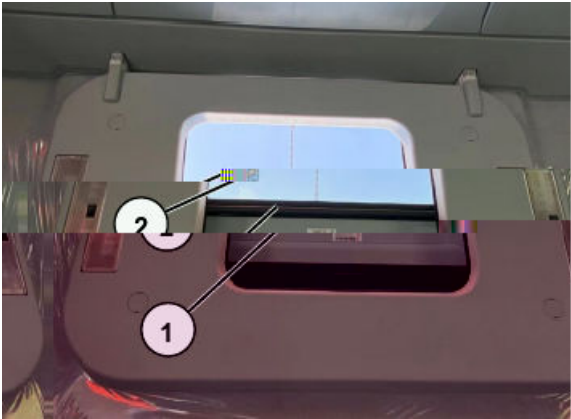
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Power

WARNING!

Sunroof must be closed when no personnel is in the cab
to ensure a secure seal to prevent rain and dust from entering

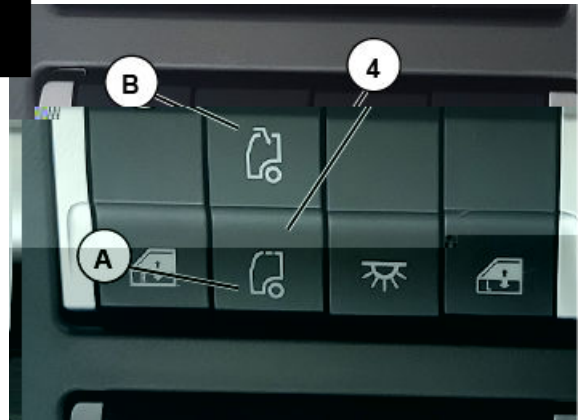
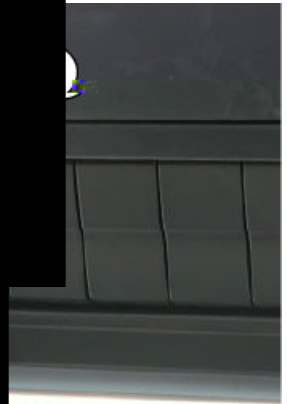


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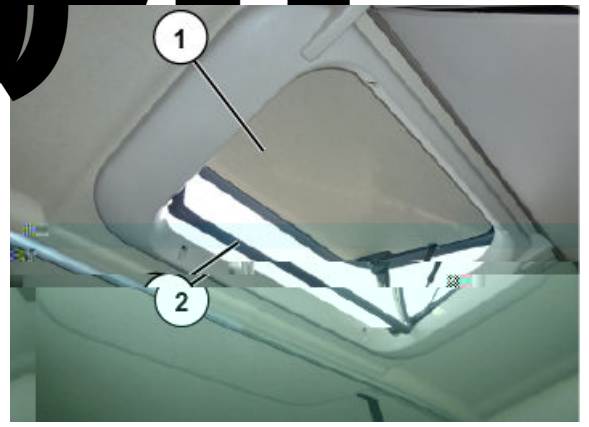
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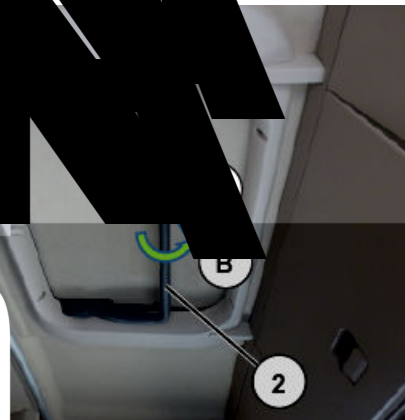
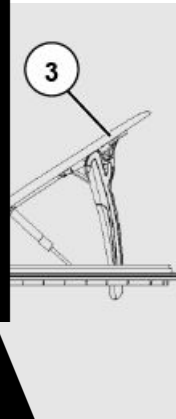
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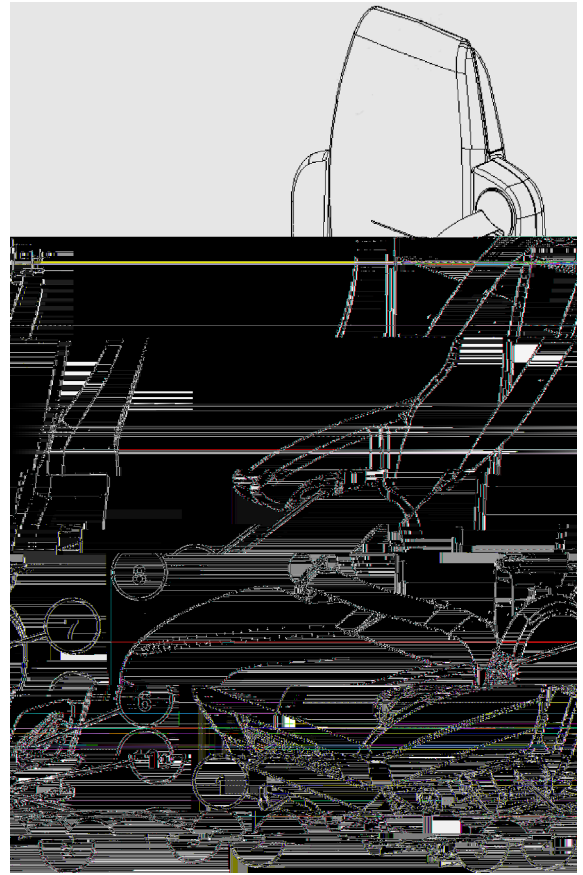
Seat Assembly (Driver/Ventilation/Heating/Airbag)



WARNING!

- Adjust the seat only when the vehicle is stationary. Do not adjust it during the driving.
- Make sure you can hear the sound of engagement of the seat locking device.
- It is not inadvisable to fix the child seat on the driver's and co-driver's seats.
- Fasten the seat belt before driving every time, see "Seat Belt".

Sea



(ejection/Helmets/Airbag)

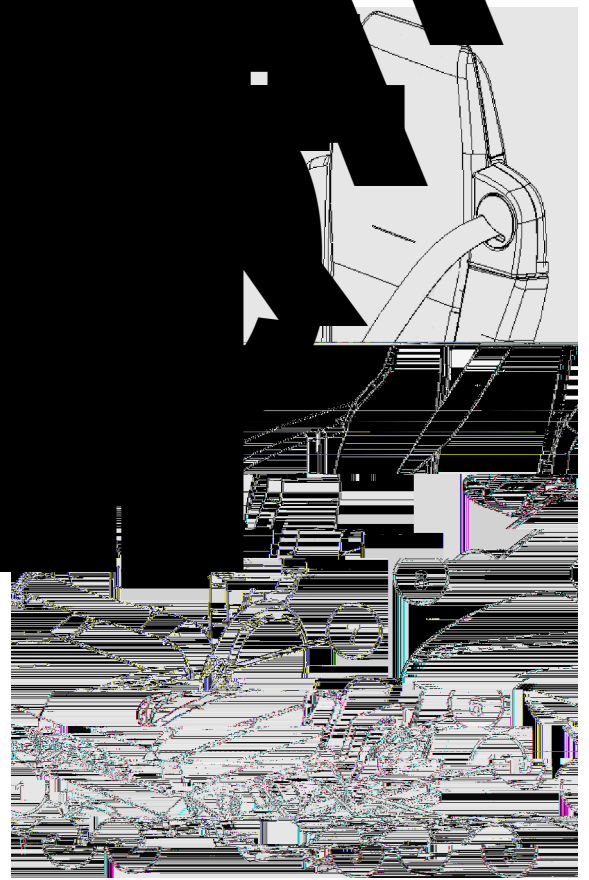
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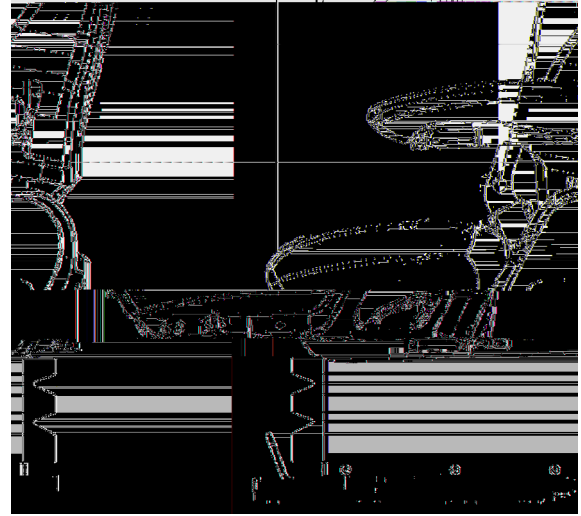
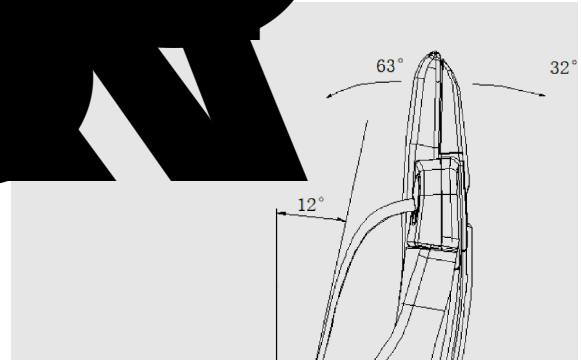
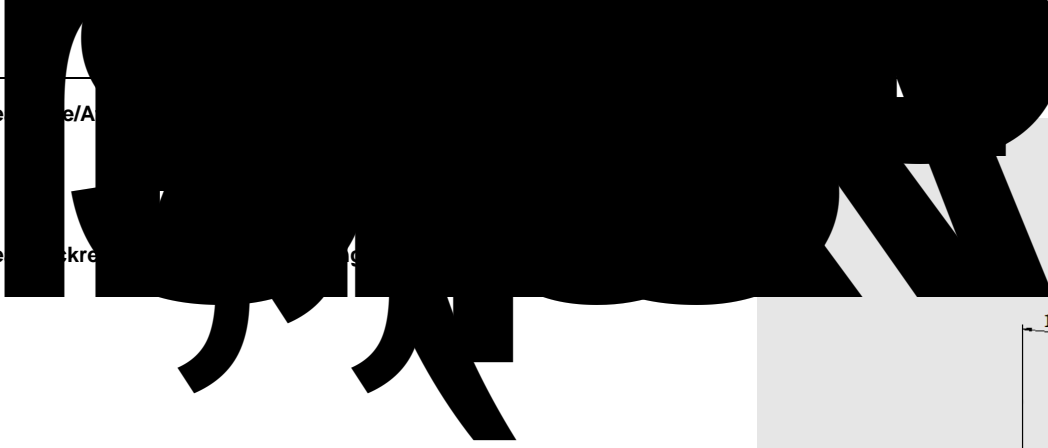
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Co-drive

Co-drive



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Technical shock absorption)

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Armrest angle adjustment

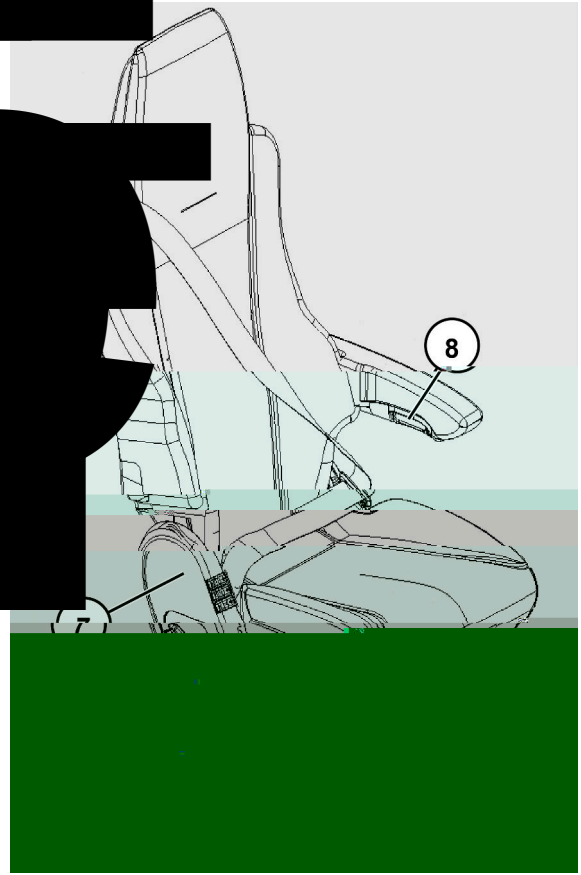
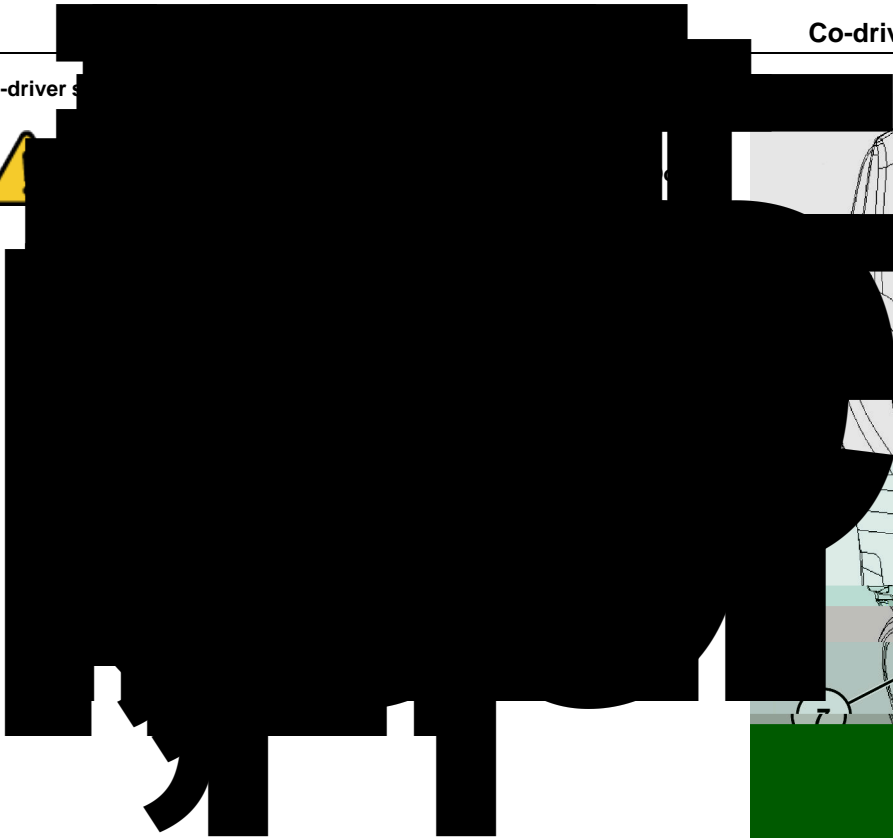


Seat f... o... ju...



Co-driver seat (airbag shock absorption)

Co-driver s



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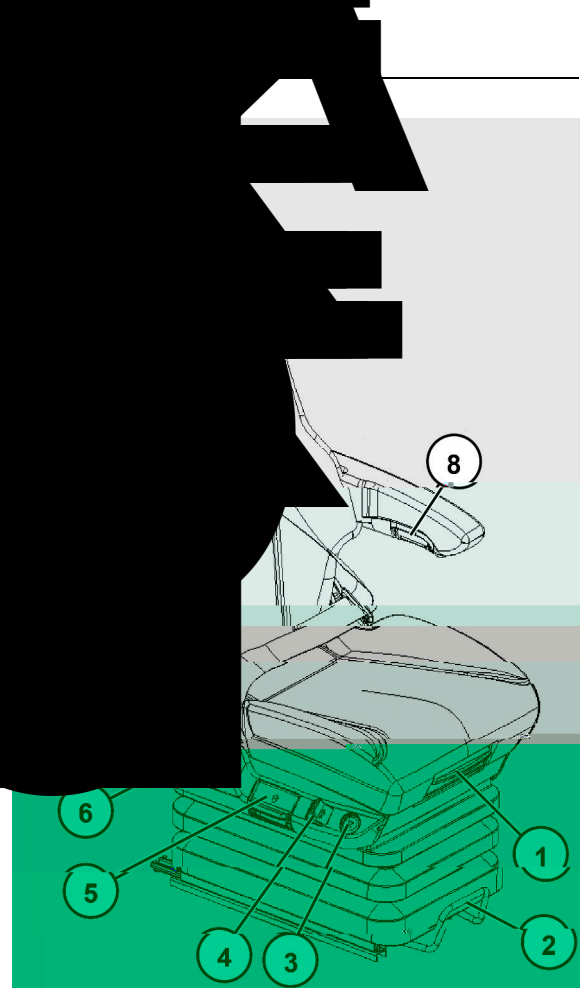
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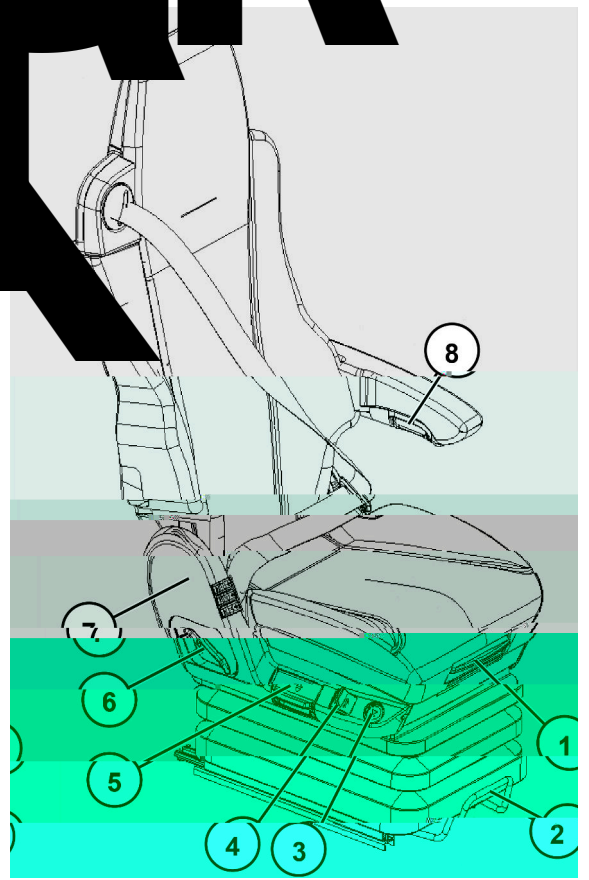
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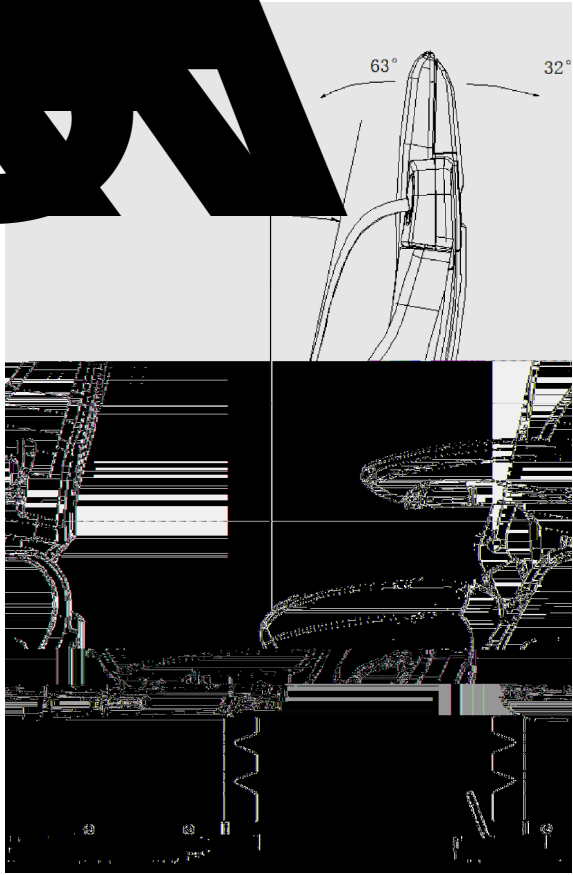
... (air shock absorption)

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设计语言

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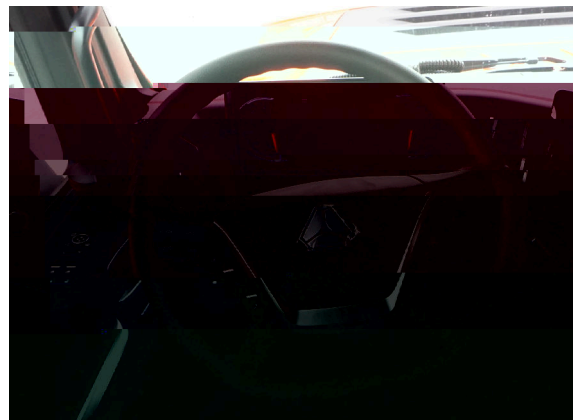
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It is not allowed to adjust the position of the steering wheel when the vehicle is running. Only when the vehicle is stationary and the parking brake is applied, can the steering wheel be adjusted!



Seat belt



WARNING!

- Fasten your seat belt before each trip.
- Each person shall wear a seat belt.
- Do not intertwine the seat belt, and ensure that the seat belt fits your body.
- The seat belt can provide you with the best protection only when the seat back is almost in the vertical position. See "Seat Adjustment".
- Ensure the back is close to the seat back, and the safety belt is close to the neck and shoulder.
- The safety belt shall be at the middle of the shoulder, rather than at the throat.
- The seat belt shall be moderately tight at the thigh, and shall pass through the lower abdomen, rather than through the stomach whenever it is possible.
- Do not adjust the seat to a position where the seat belt cannot fit your body.
- During driving, the tightness of the seat belt shall be adjusted by pulling the shoulder belt from time to time.
- Do not let the seat belt pass through the pocket with hard or fragile items in it (such as pens, glasses, and etc.).
- Installation of new safety belts, replacement of damaged or seriously deformed safety belts in the accident and inspection of safety belt fixing points shall be carried out at a CNHTC service station.
- Do not refit the seat belt.

Seat

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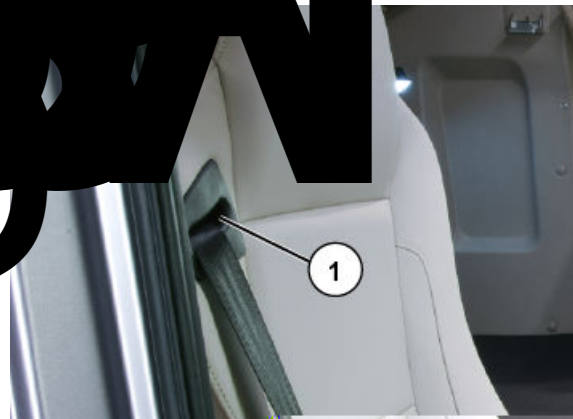
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Seat belt

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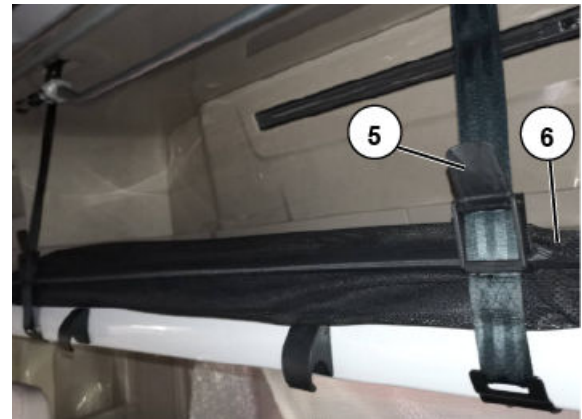


Upper berth



WARNING!

- Safety protection device shall be switched on and locked when the berth is used.
- Ensure that the seat belt devices at both ends are locked when the upper berth is retracted.



Lower bunker

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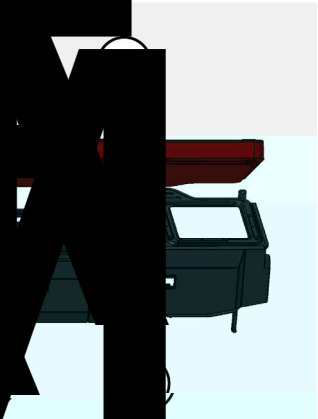
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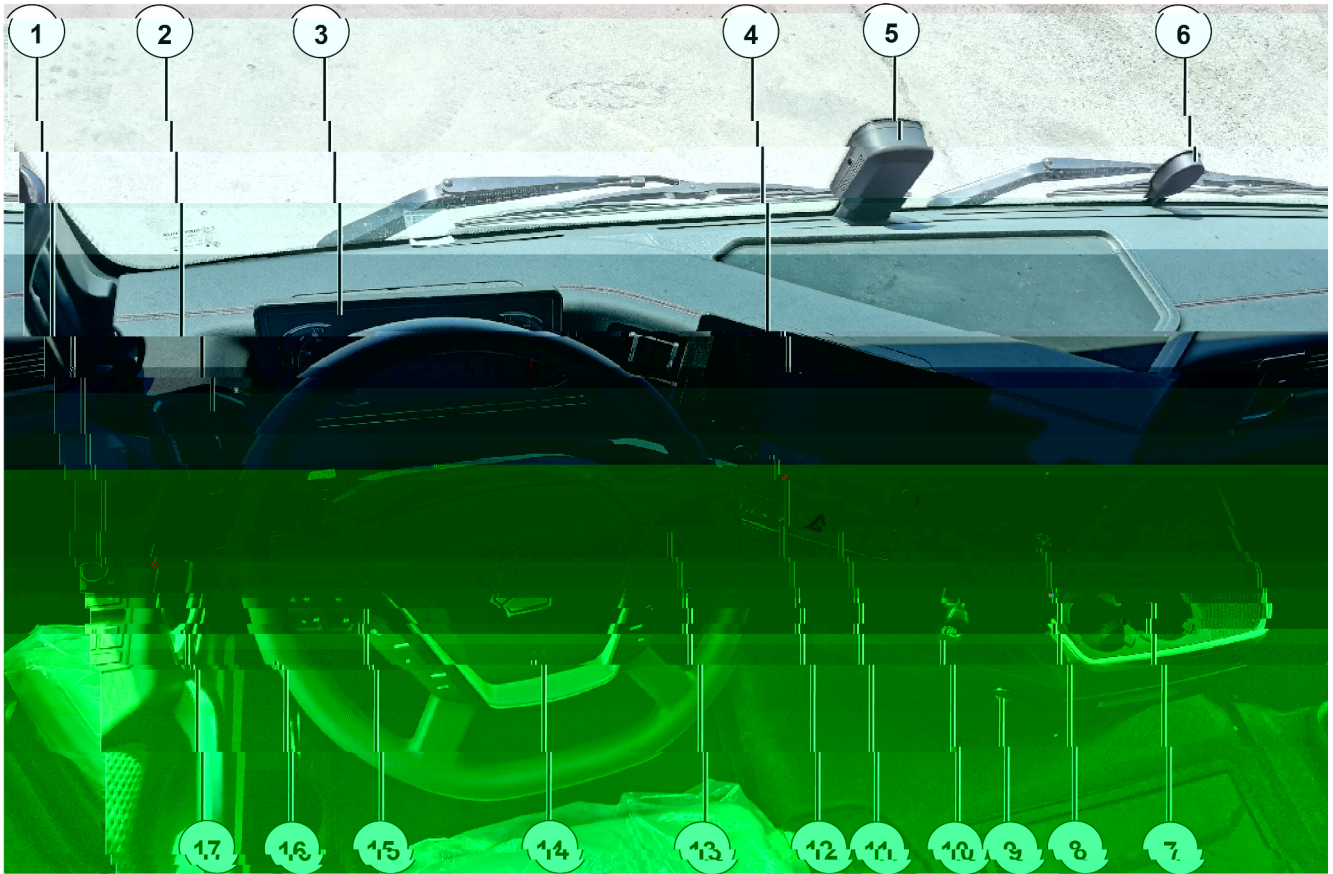


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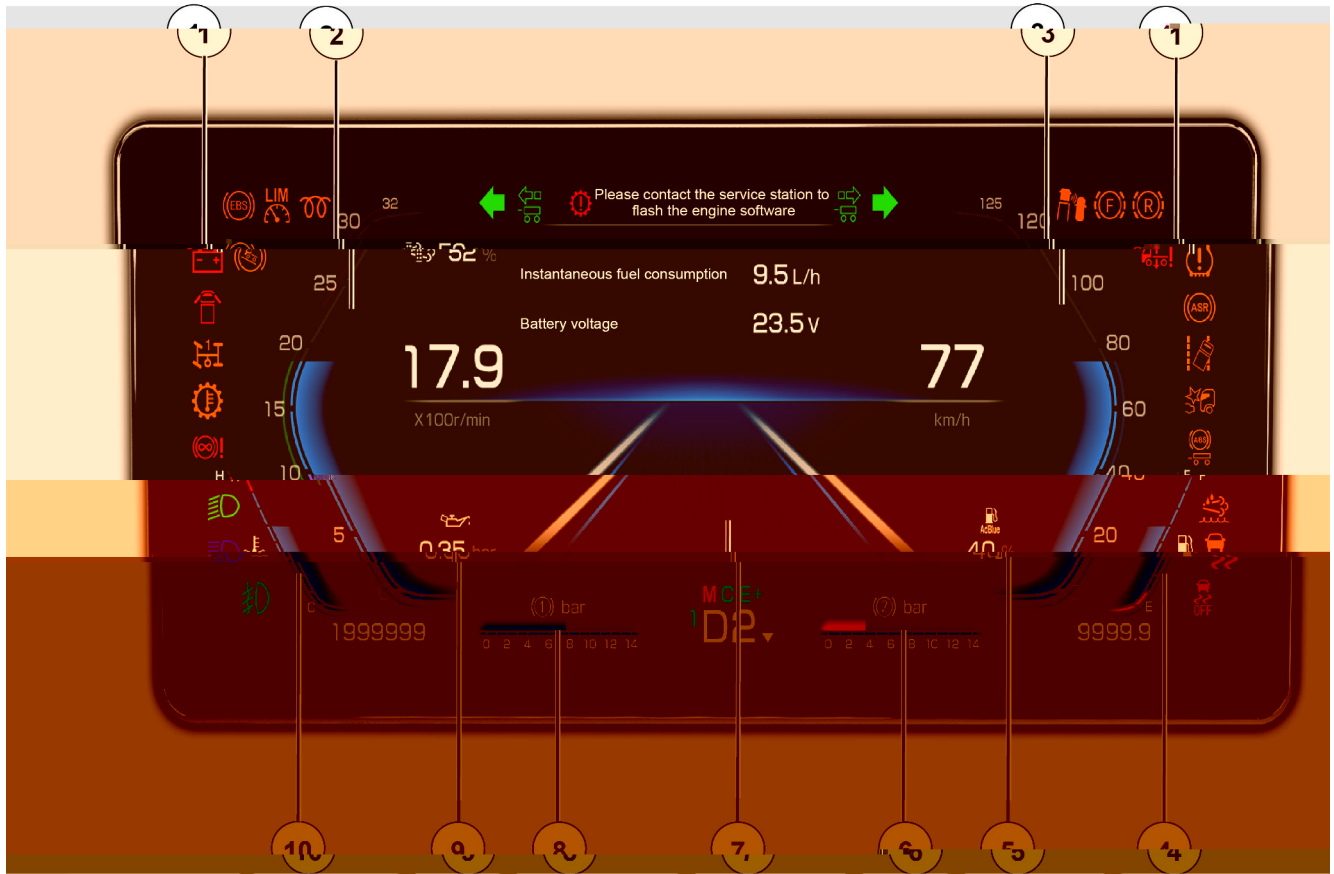
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Overview of cab interior







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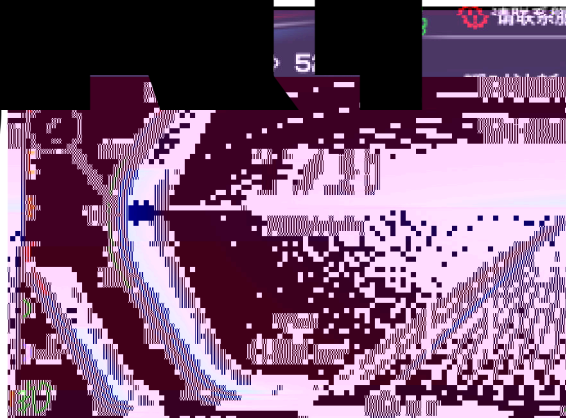




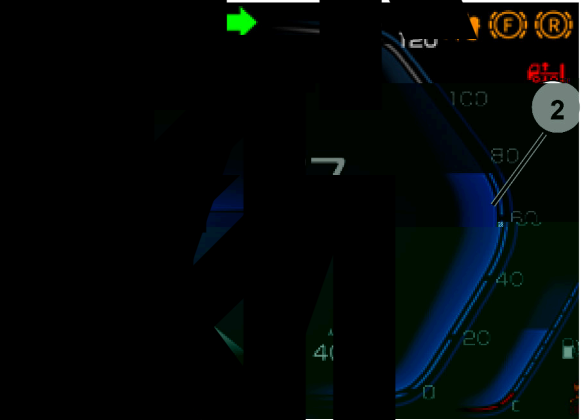
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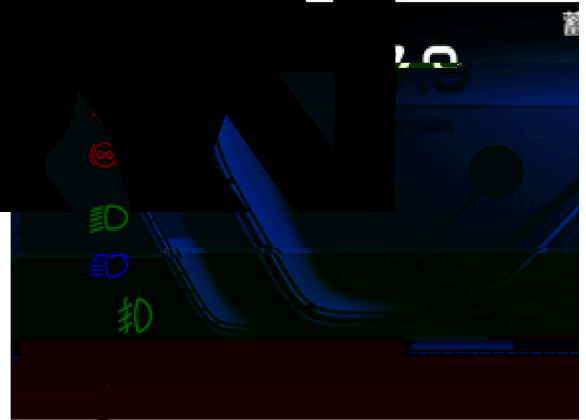
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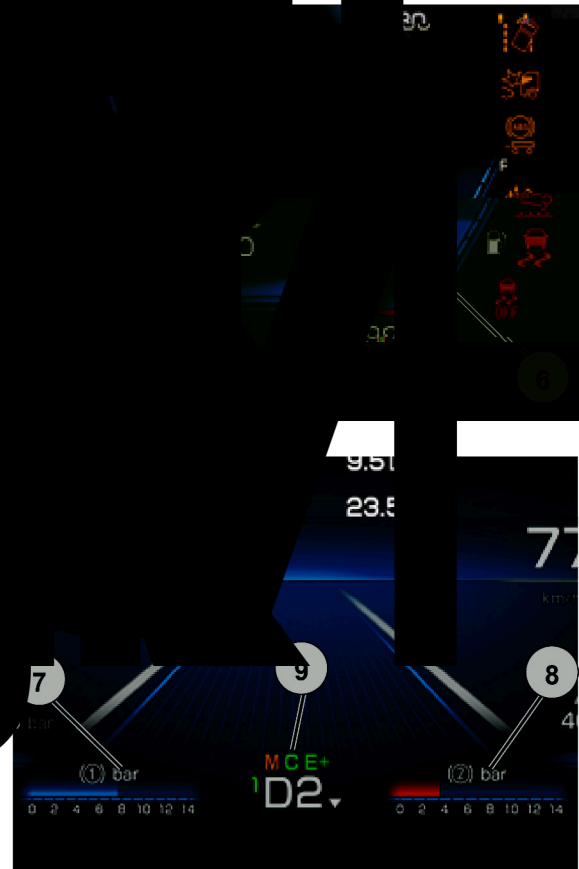
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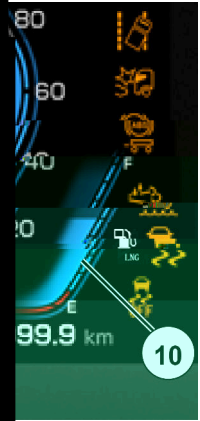
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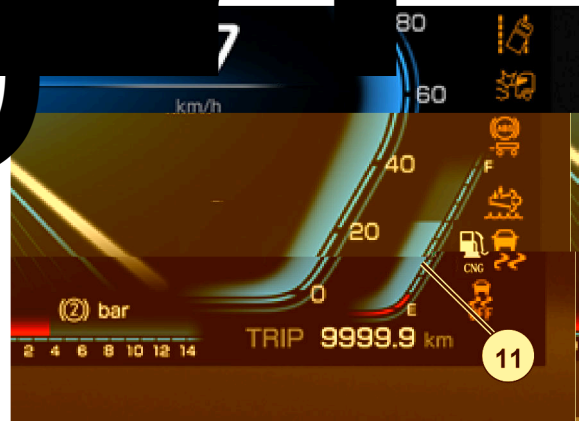
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Desc

Desc



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Boot screen

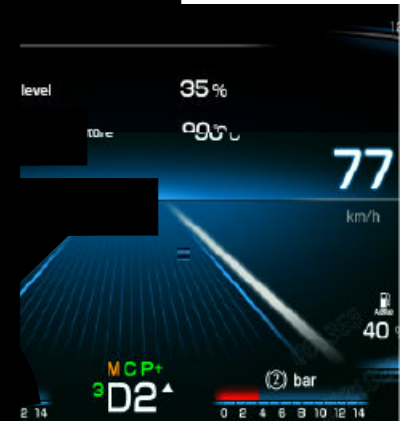


Main interface 1



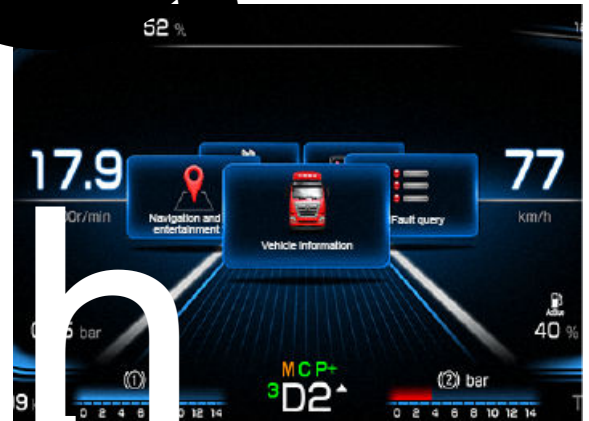
Description of driver display screen

Main in



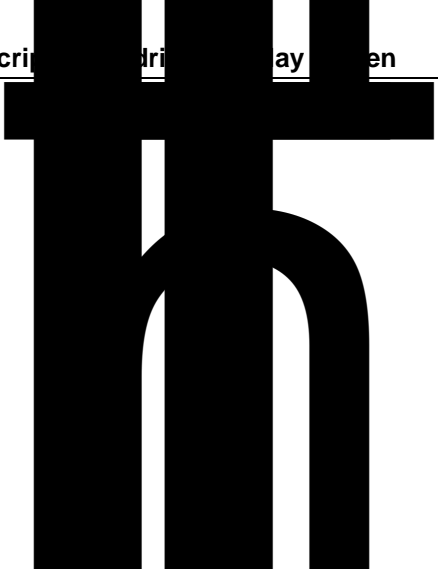
Definition of driver display screen

First-



Vehicle i





Description of driver display screen

Pin status



Description of connectivity screen



Description of driver display screen



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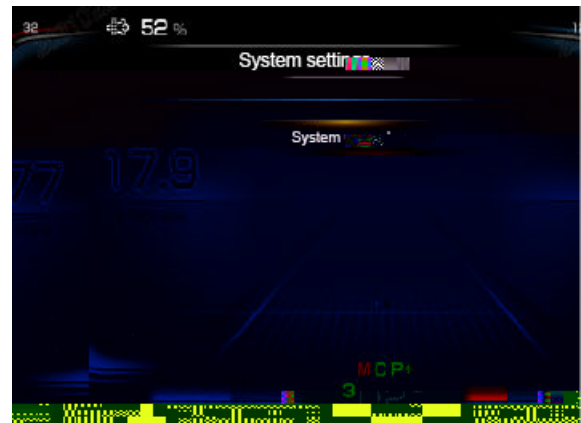
Description of driver display screen



Desc

System

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Description of driver display screen

Language setting

Backlight adjust

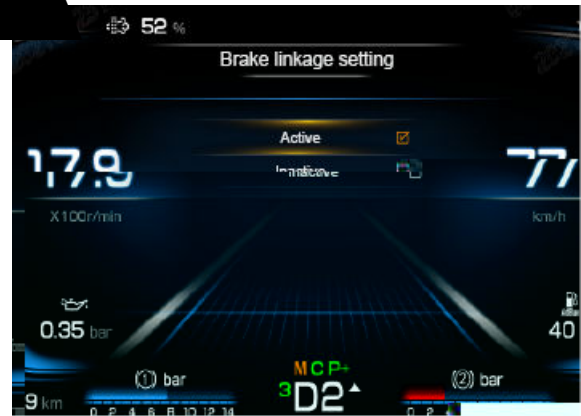
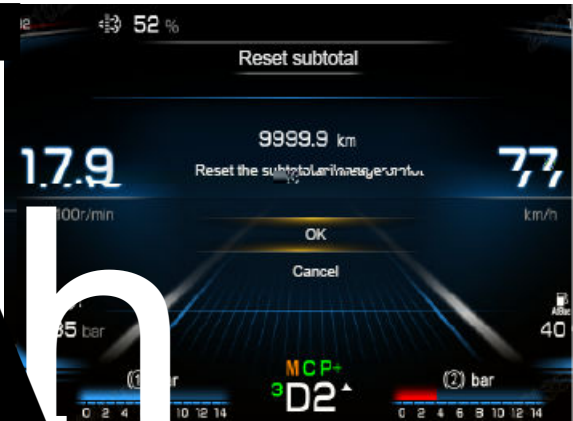


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System upgrad

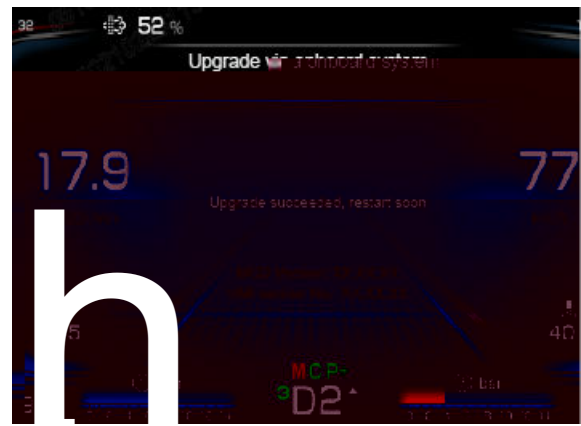


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Description of driver display screen



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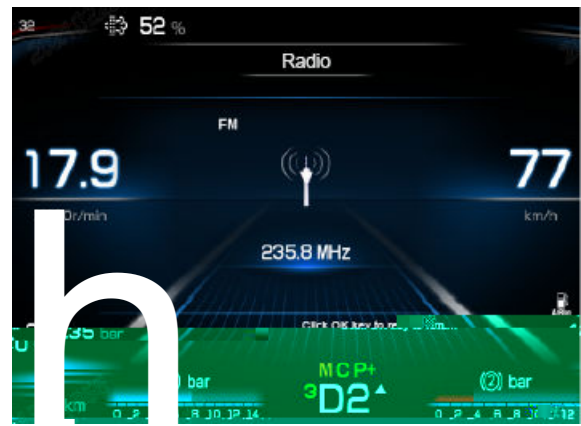
Description of driver display screen

Navigation



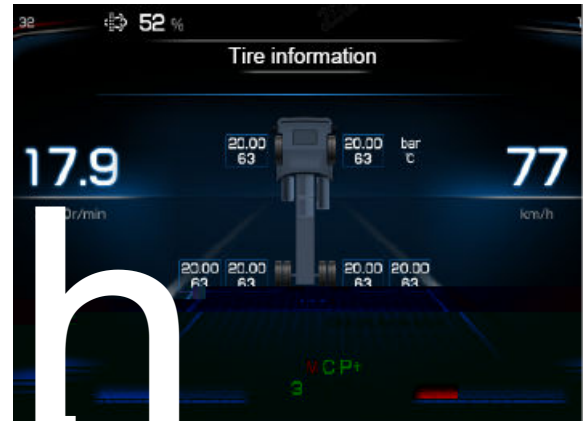
Definition of driver display screen

a
b
c



Description of driver display screen

Tire information



Description of driver display screen



Description of driver display screen

Smart truck

Adaptive cruise control

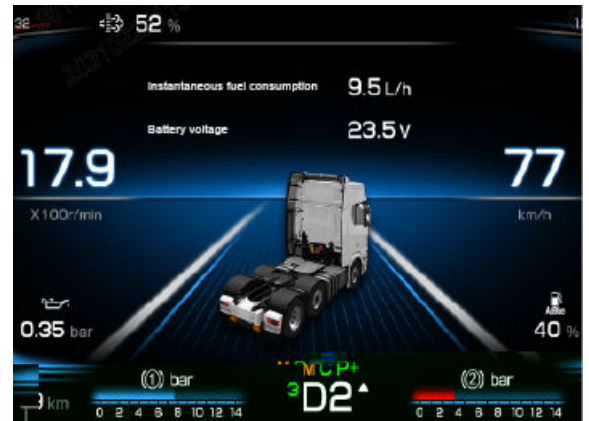
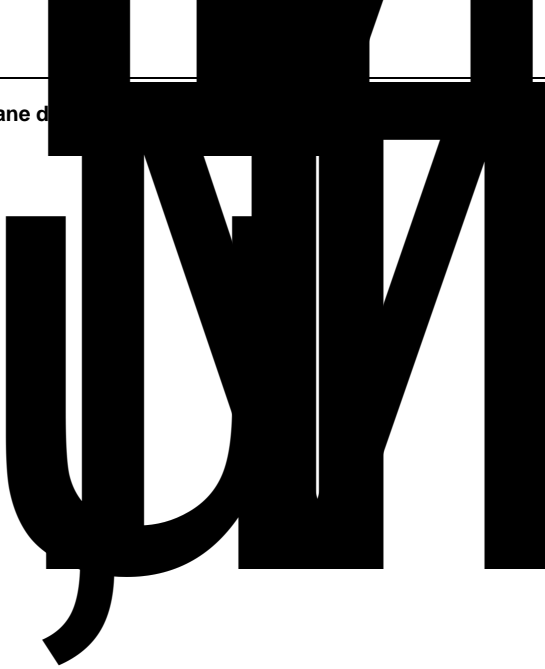


Description of driver display screen



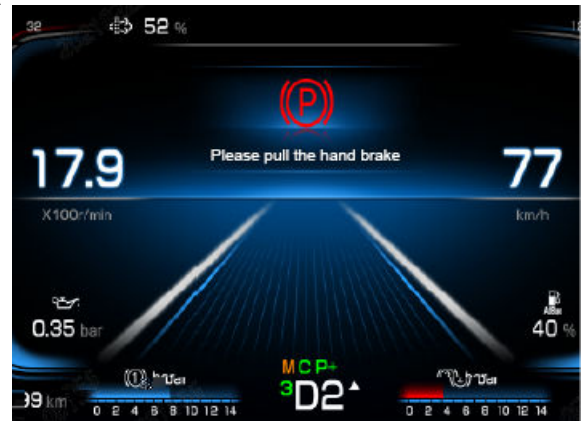
Description of driver display screen

Lane d



Description Driver display screen

Alarm

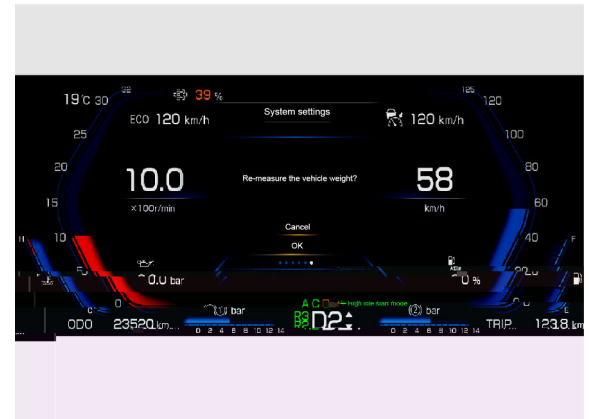


Description of driver display screen

Axle



Re-measure the vehicle's weight



Description of driver display screen

Re-measuring



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Description of

Sign, Content and A light

Information

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other measures

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Description

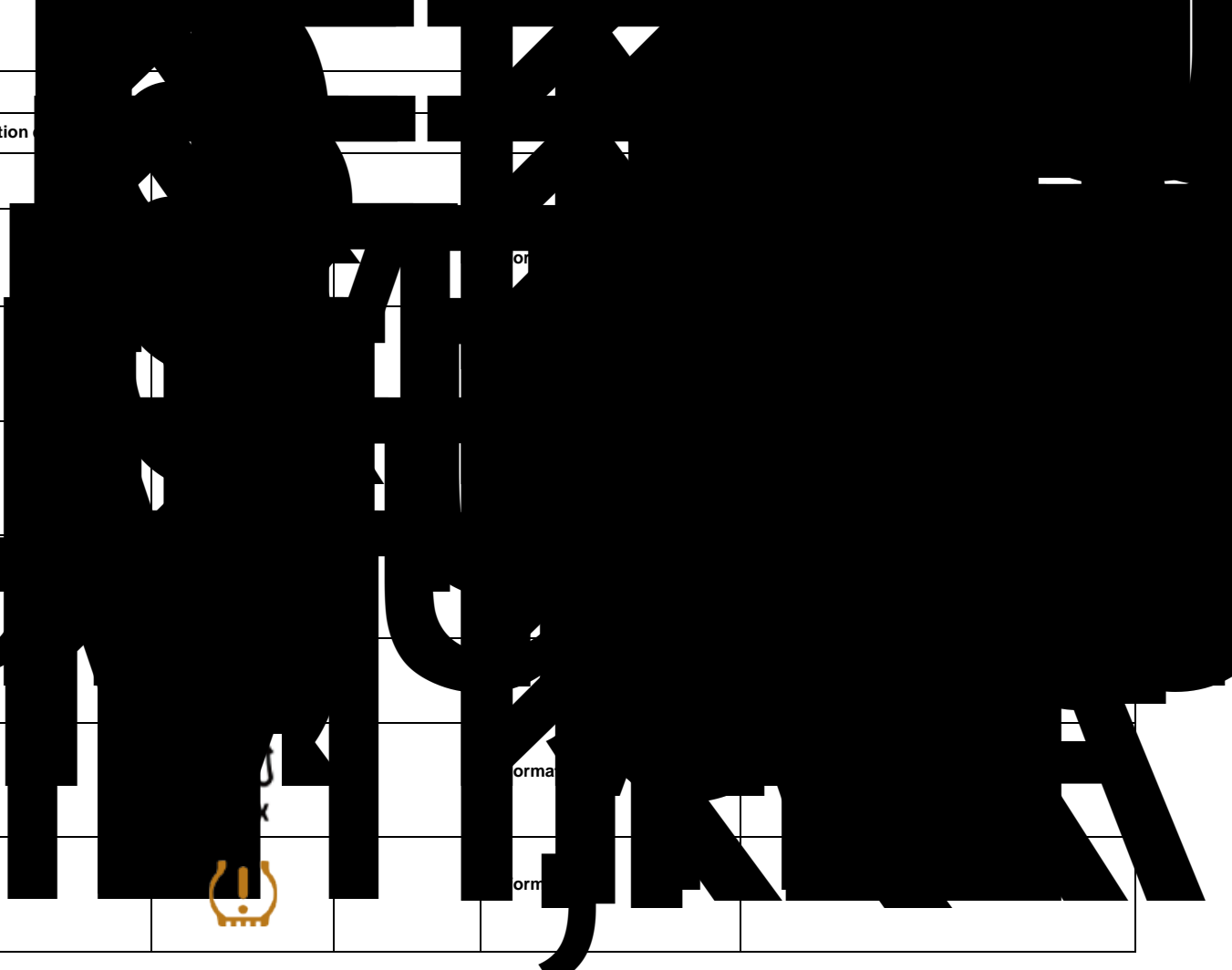
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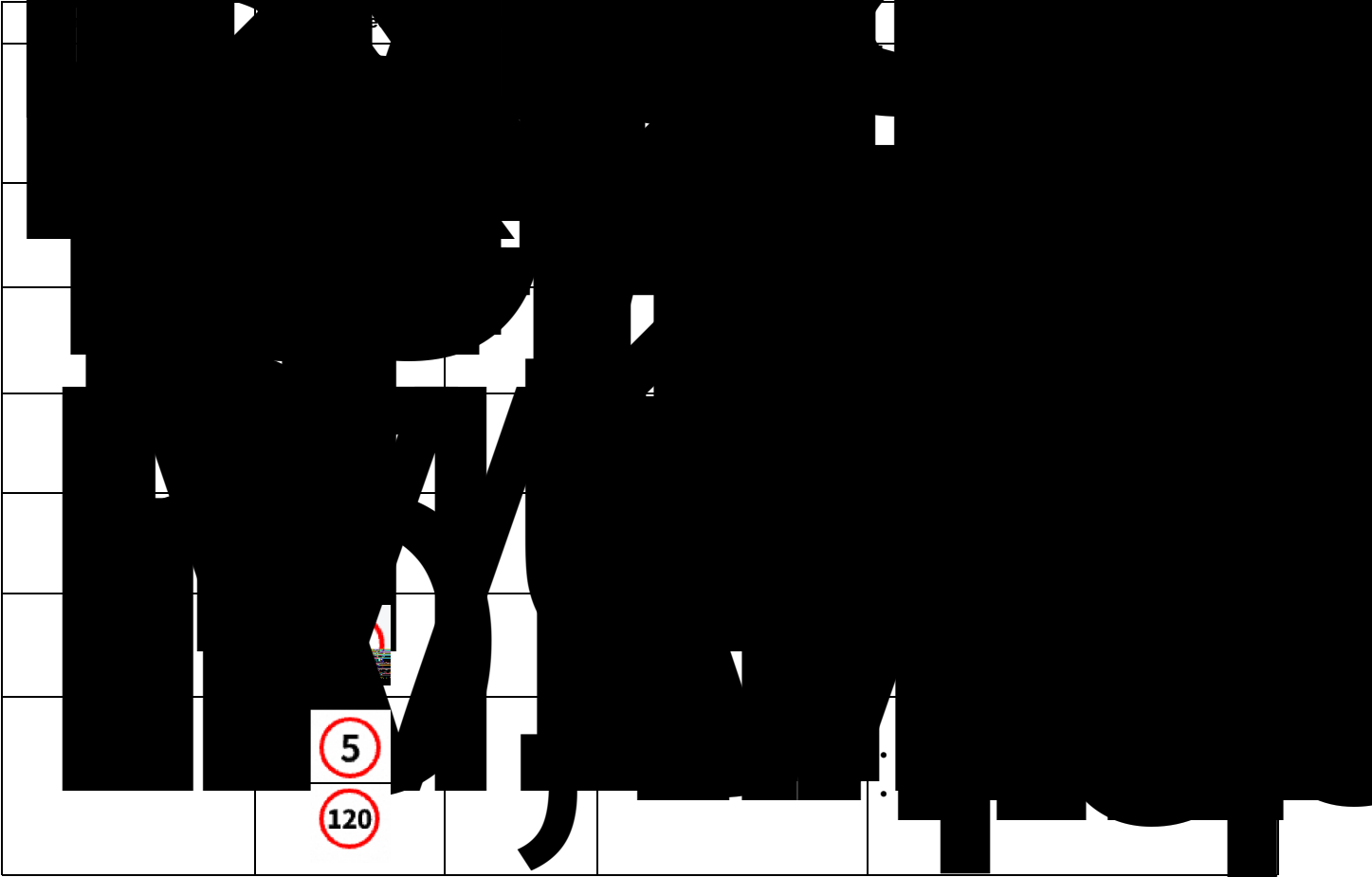
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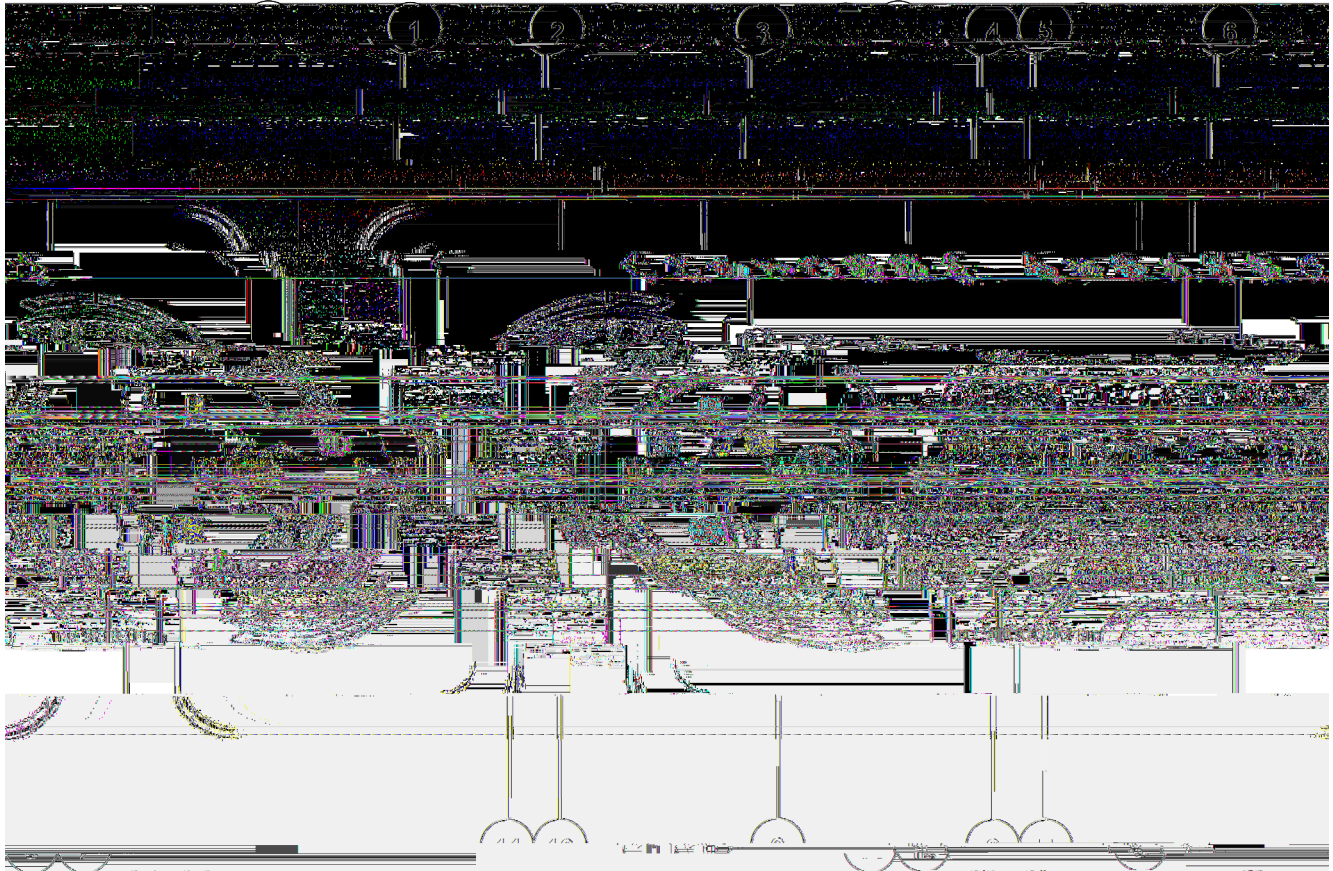
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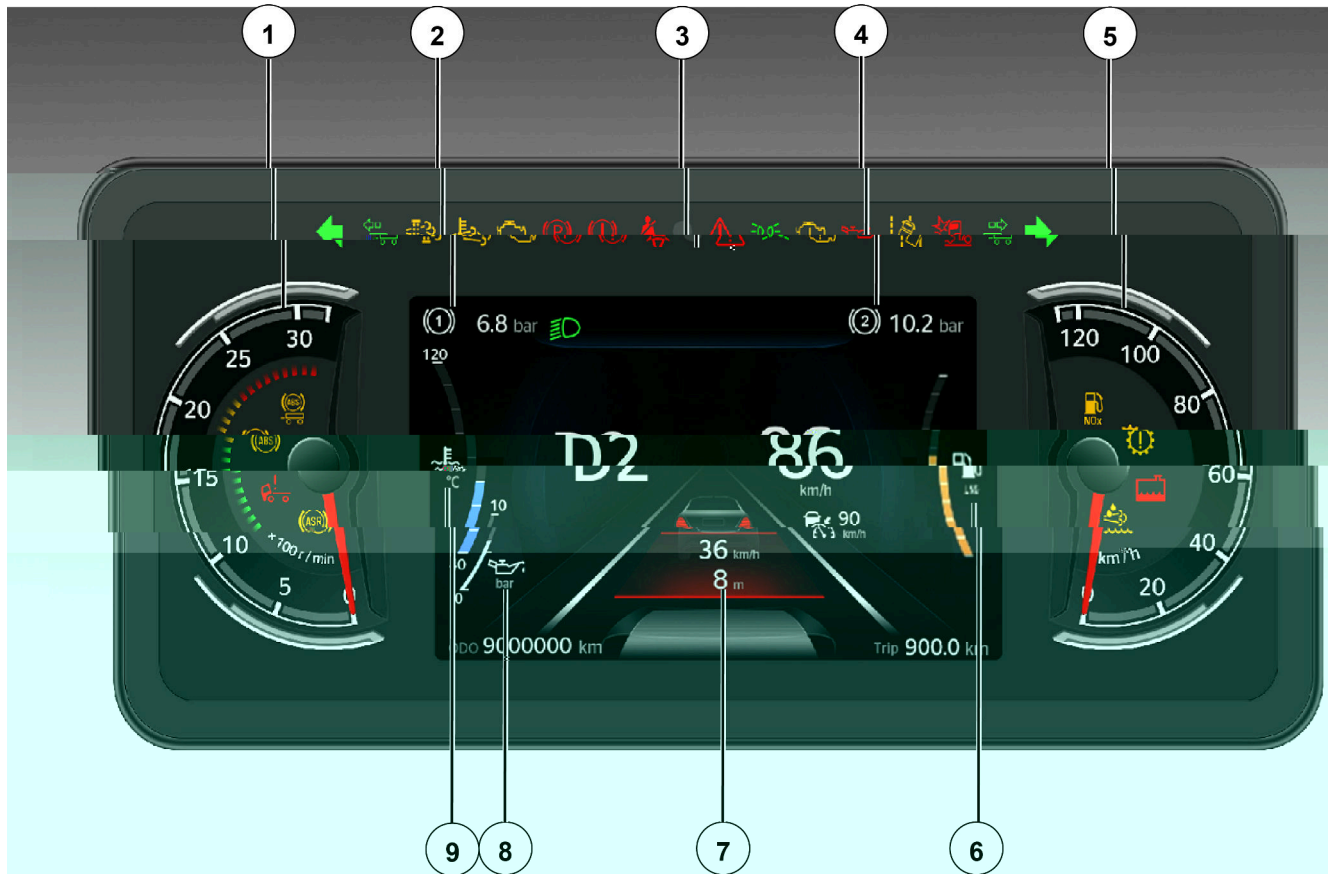
Instrument panel



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Instrument panel



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Instrument panel



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Speed

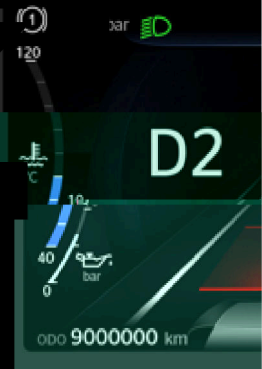


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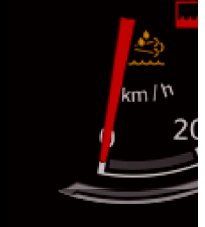


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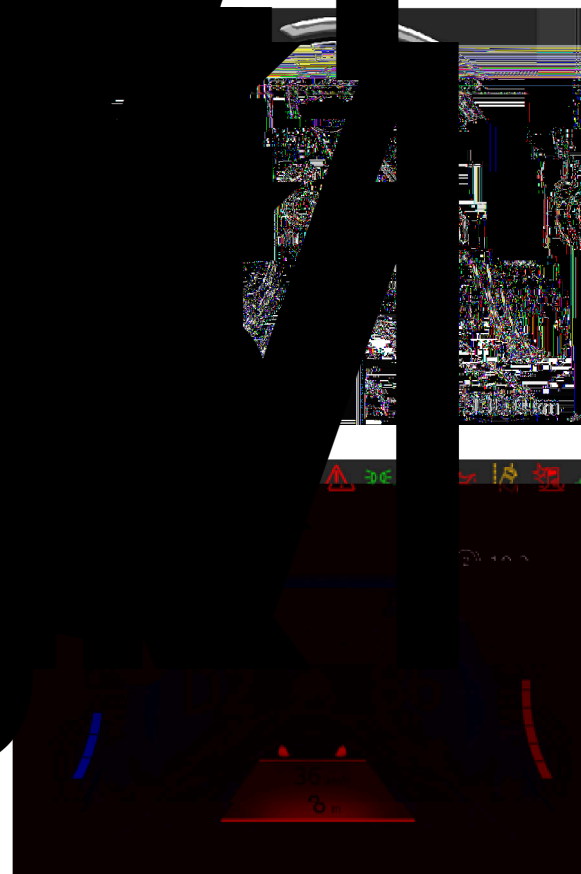


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CNG

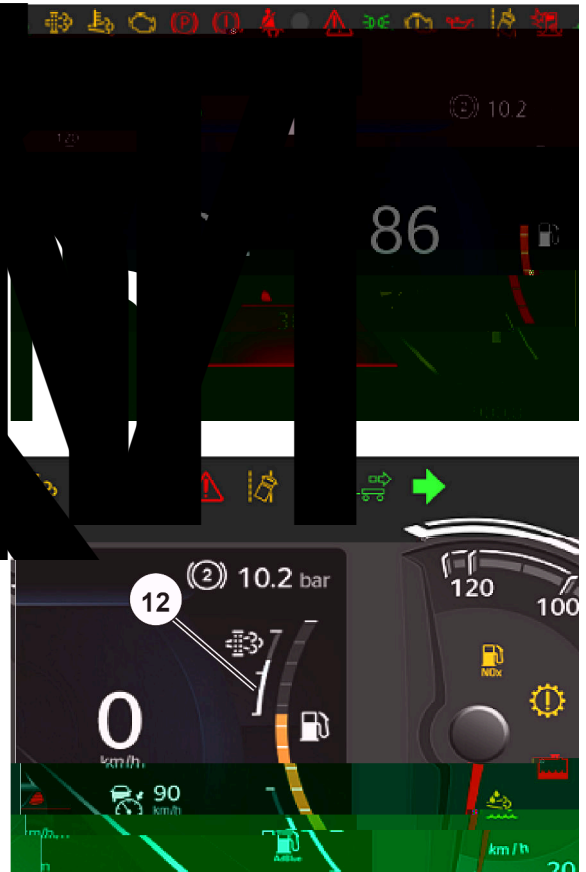
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Instrument panel

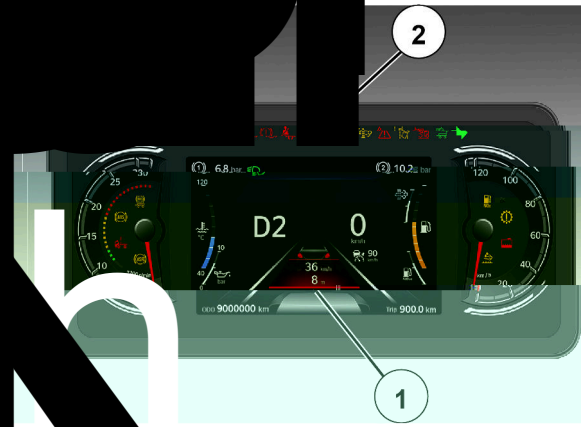
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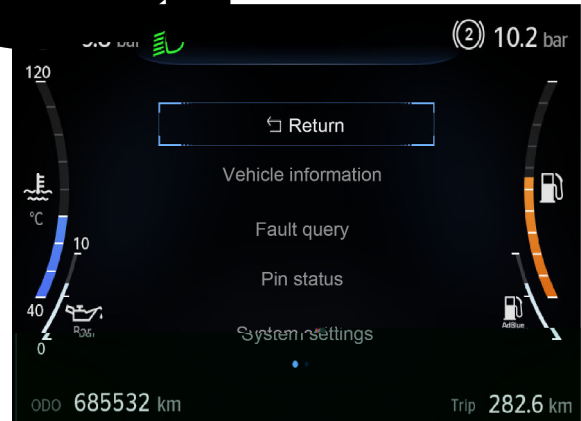


Description of driver display screen

Home screen

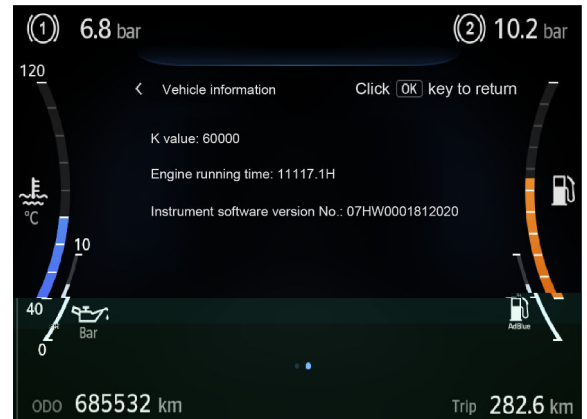
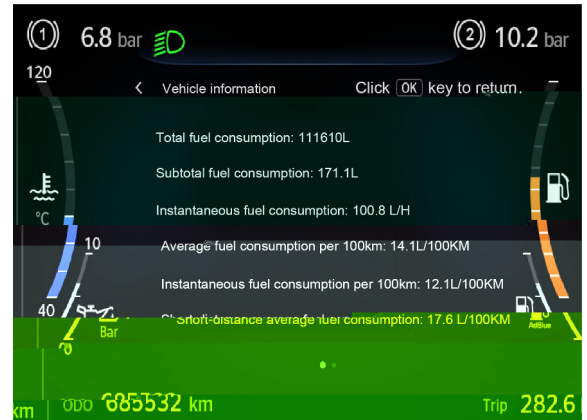


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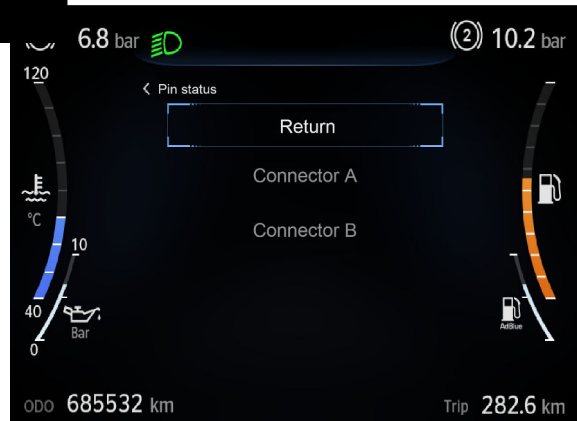
Description of driver display screen

Vehicle information



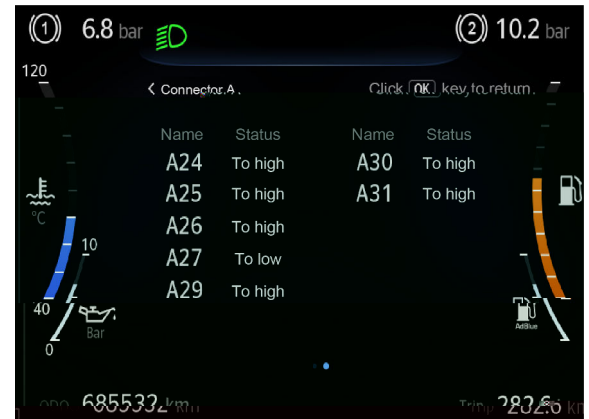
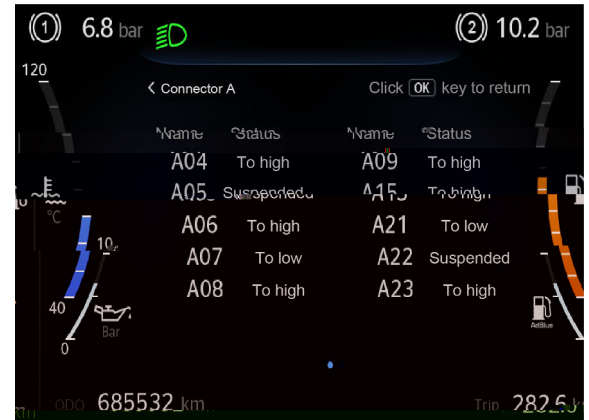
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Pin status



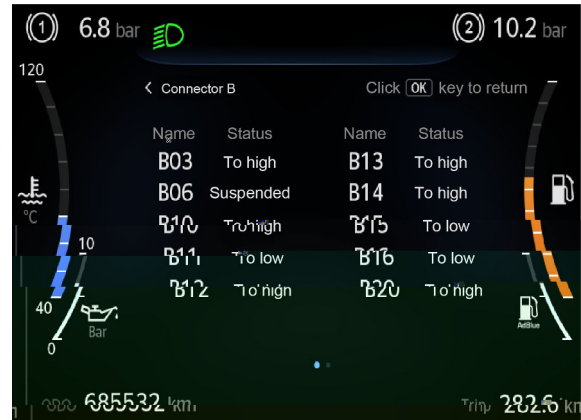
Description of driver display screen

The pin status of connector A

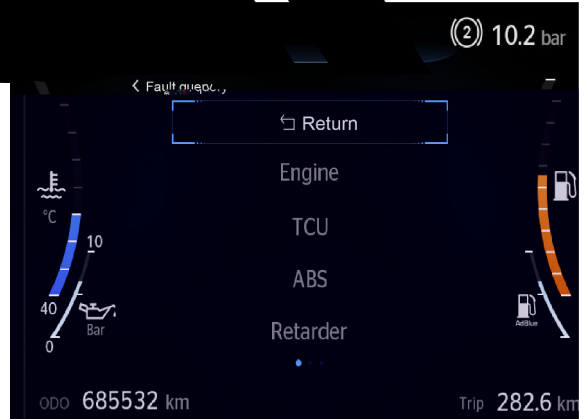


Description of driver display screen

The pin status of connector B

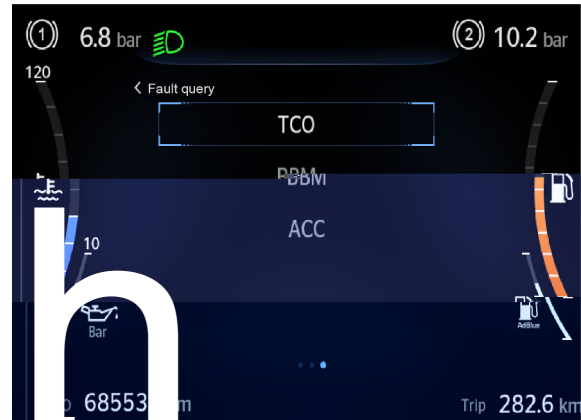


Fault qu

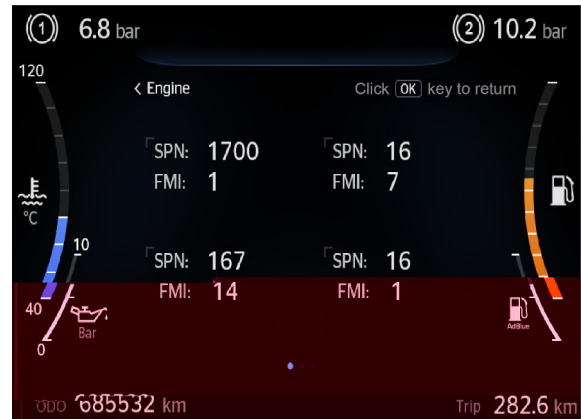


Description of driver display screen

Fault query

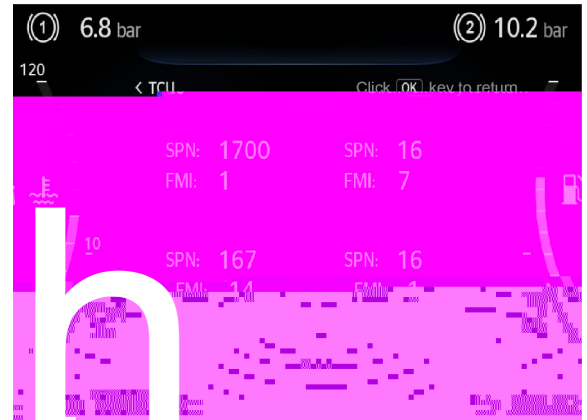


Engine fault query screen



Description of driver display screen

TCU fault query screen

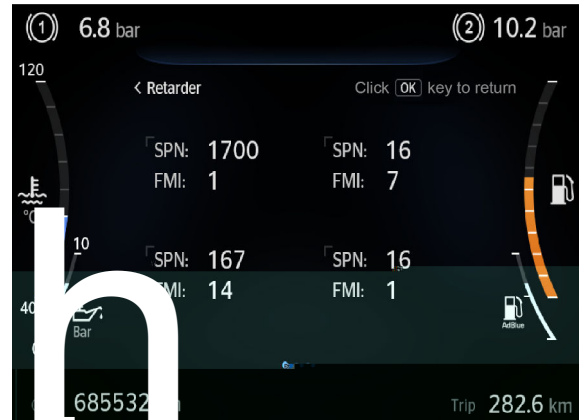


ABS fault query



Description of driver display screen

Retarder fault query

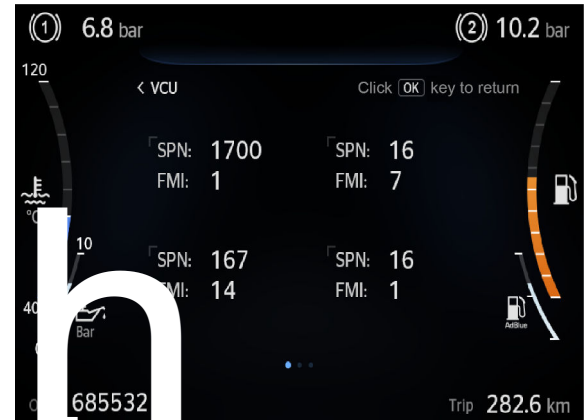


BCU fault query

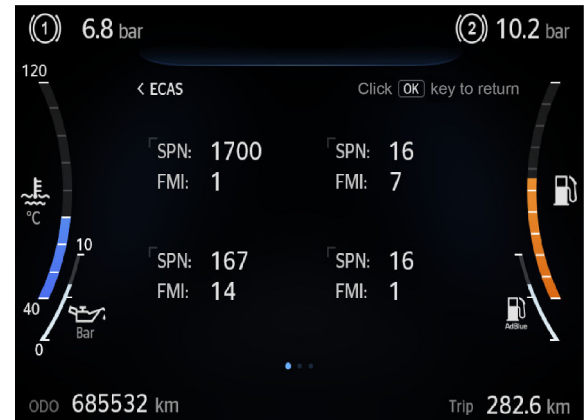


Description of driver display screen

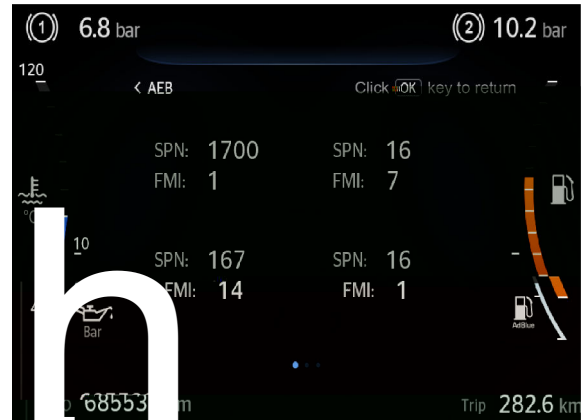
VCU fault query



ECAS fault query



AEB fault query

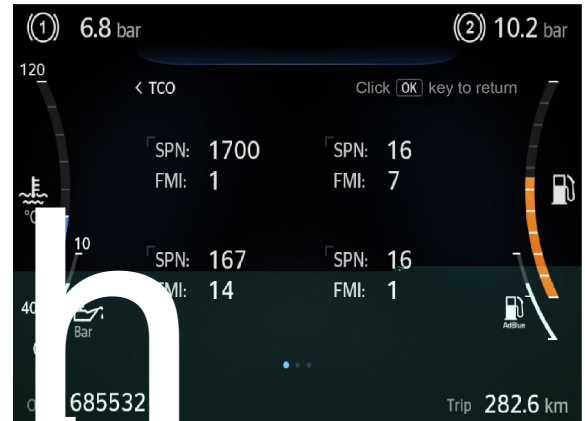


LDWS fault query



Description of driver display screen

TCO fault query



BBM fault query

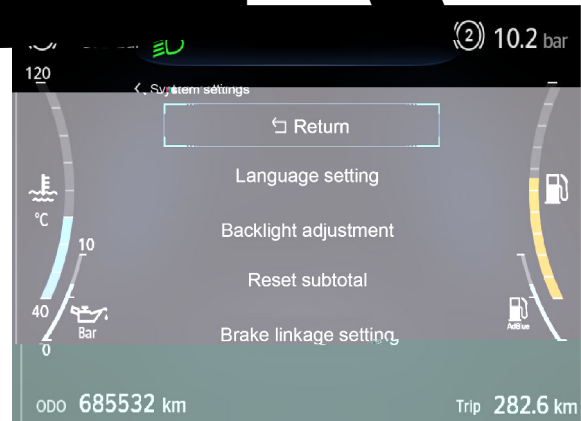


Description of driver display screen

ACC fault query



System



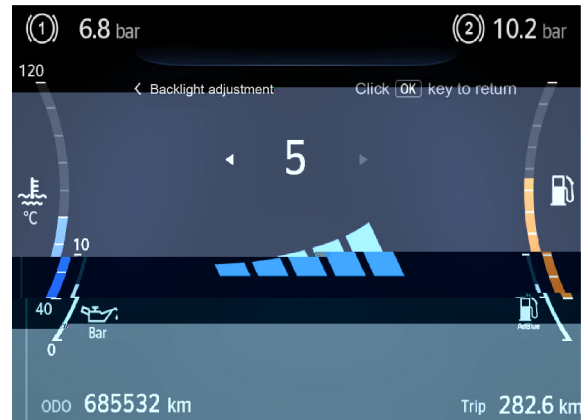
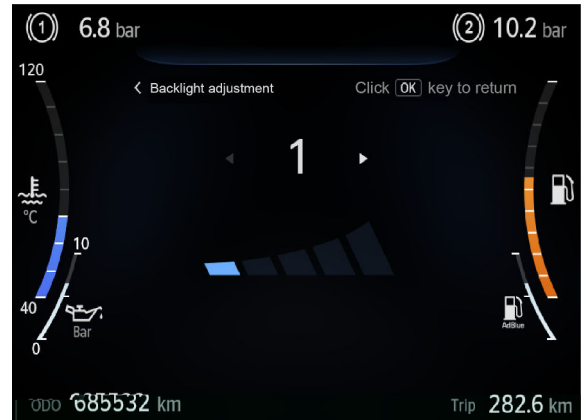
Description of driver display screen

Language setting



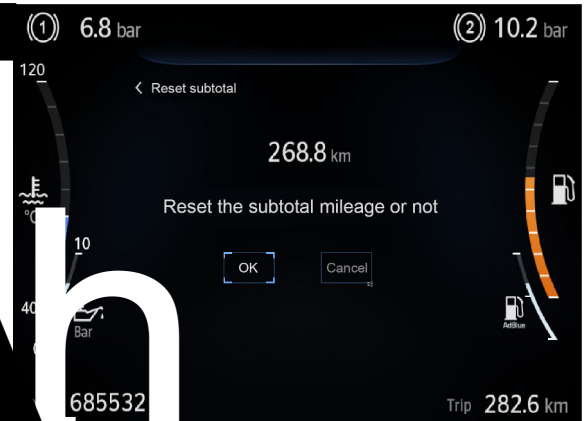
Description: Display

Backlight adjustment

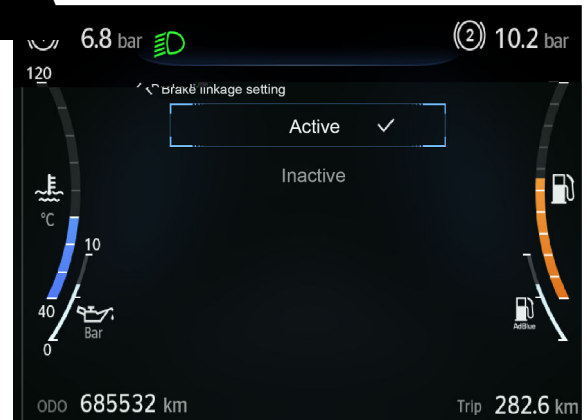


Description of driver display screen

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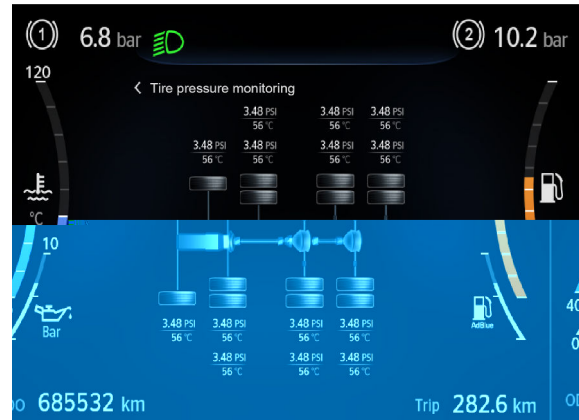
Description of driver display screen

Tire pressure monitoring



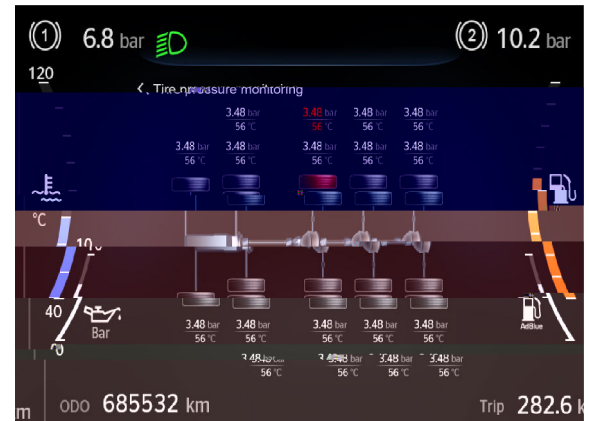
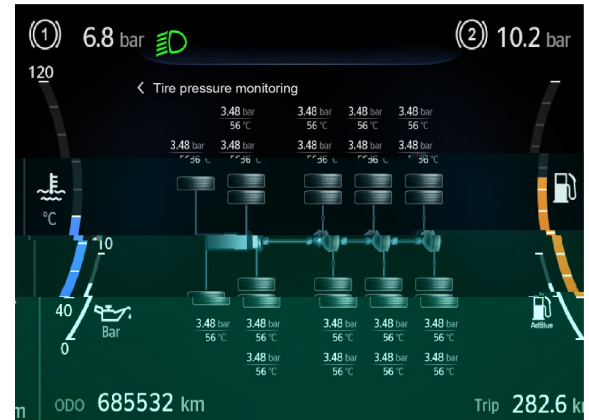
Description of driver display screen

Tire pressure monitoring



Description of driver display screen

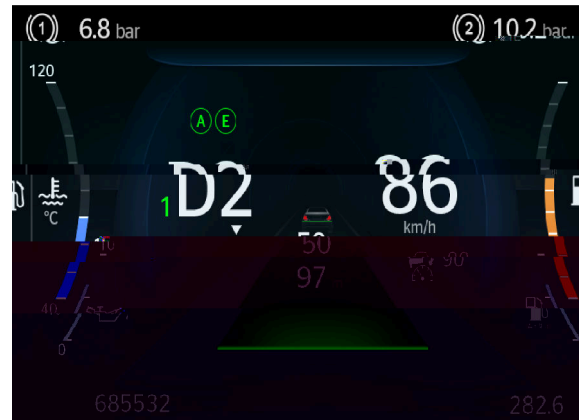
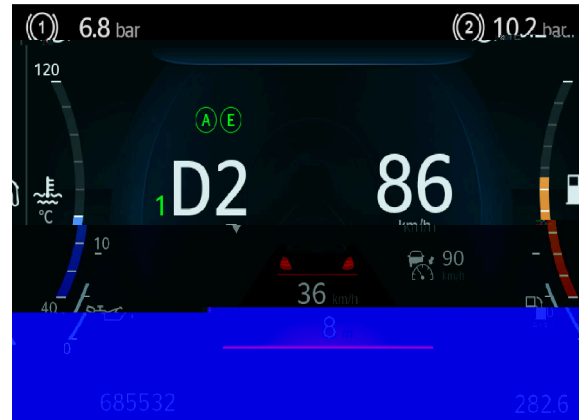
Tire pressure monitoring



Description of driver display screen

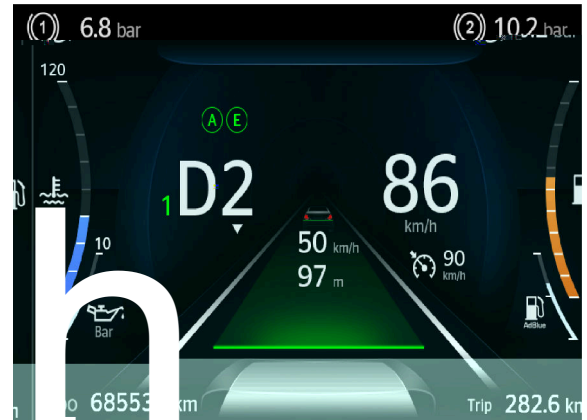
Smart truck

Adaptive cruise control

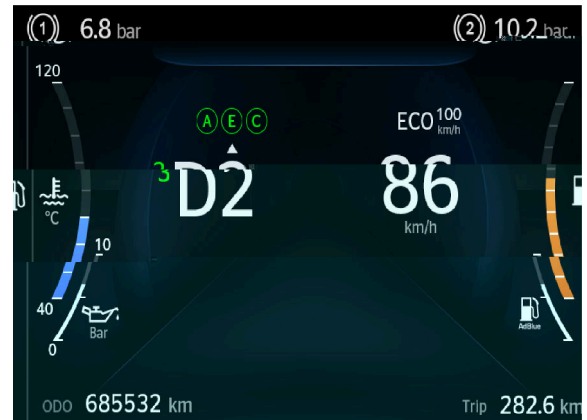


Description of driver display screen

Cruise control



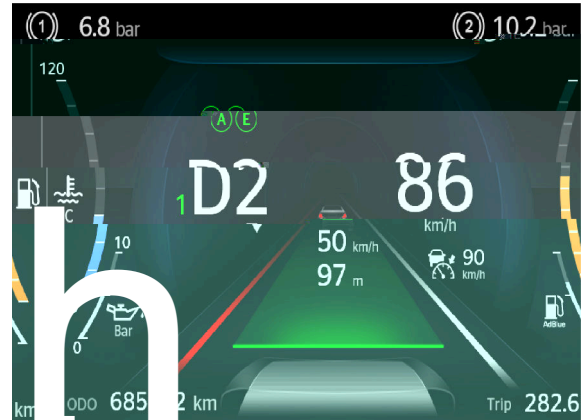
Eco mode



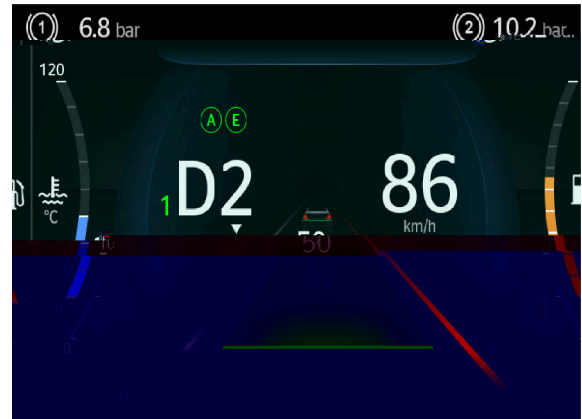
Description of driver display screen

Lane departure warning

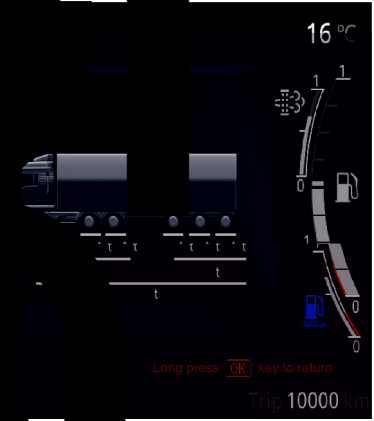
Left departure



Right departure

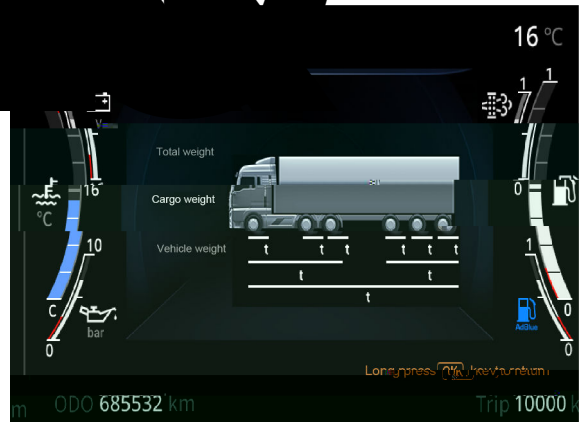


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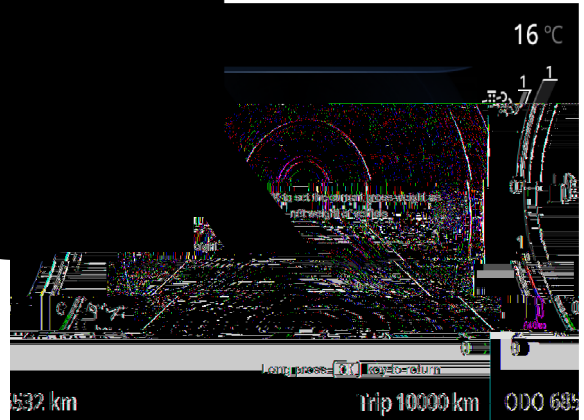
Axle info

Note: When the instrument does not receive the relevant message, the "Gross Vehicle Weight" and "Cargo Weight" are displayed as "-".]



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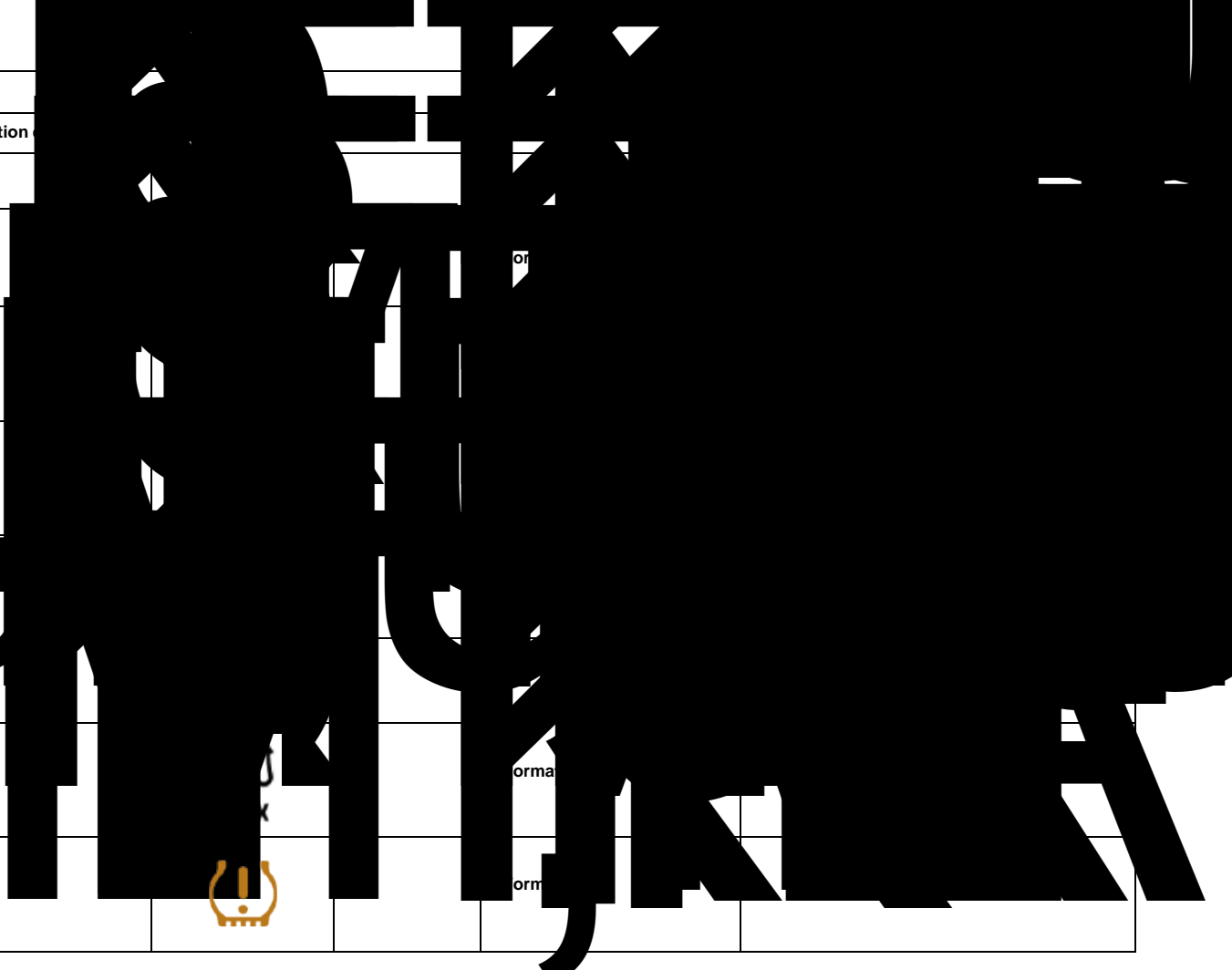
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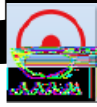
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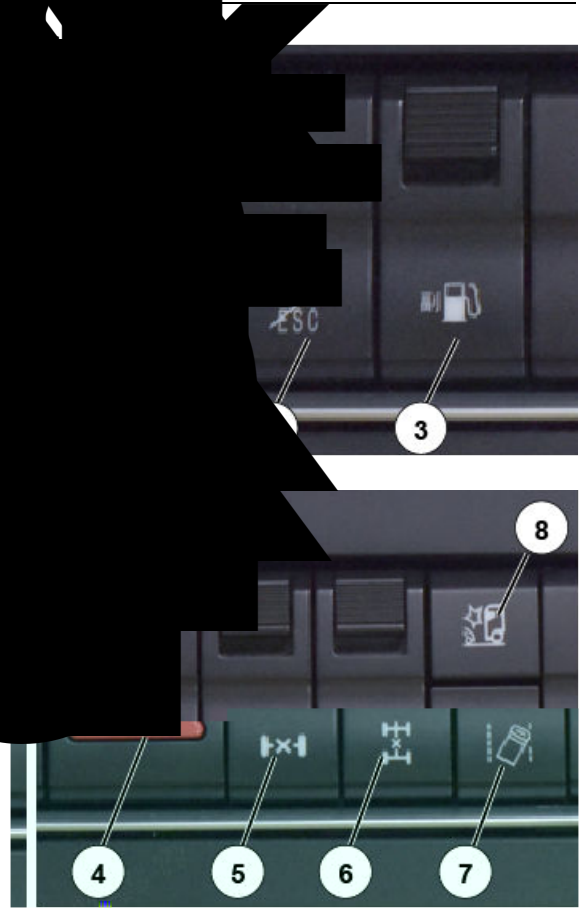
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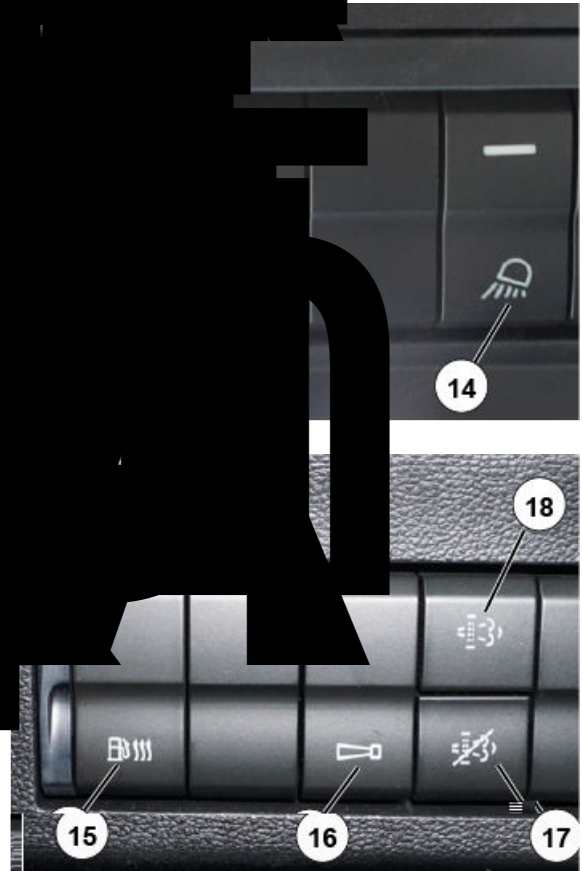


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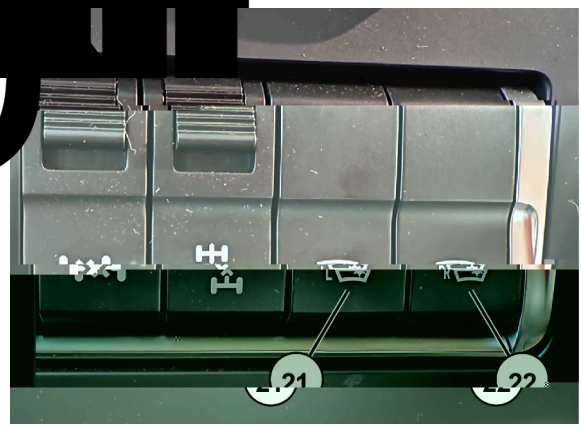
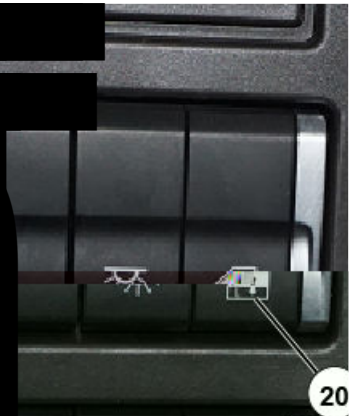
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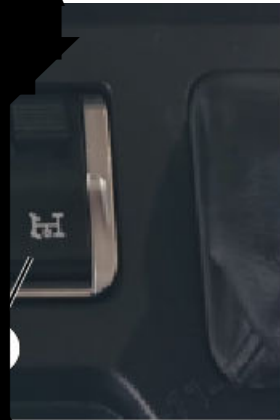




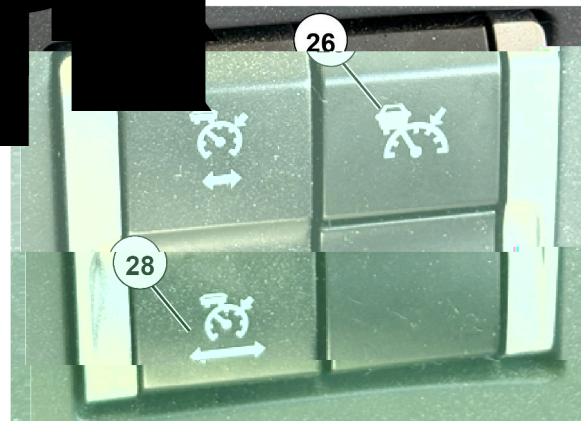
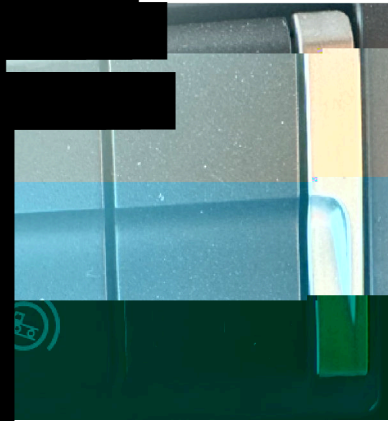
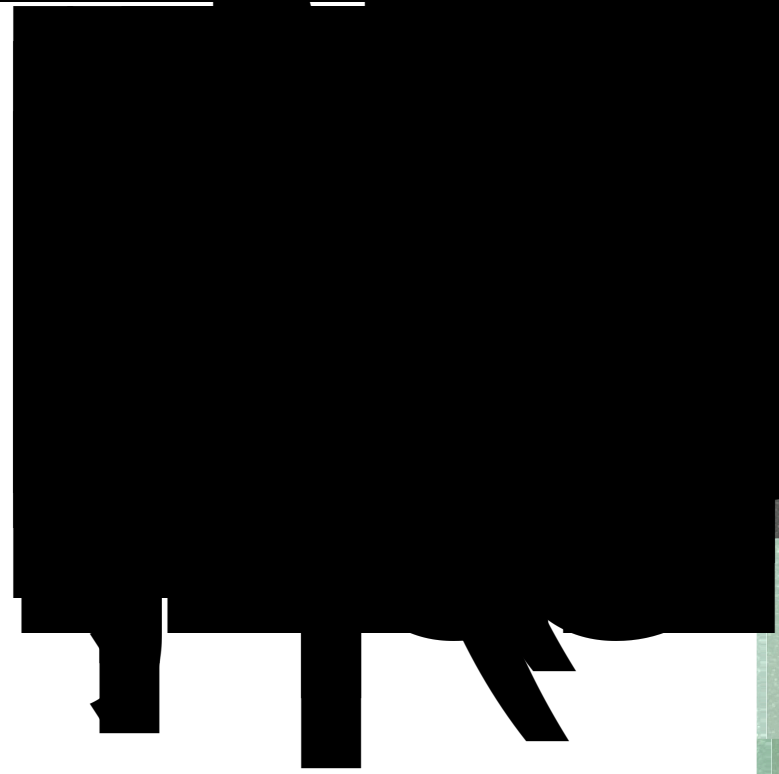


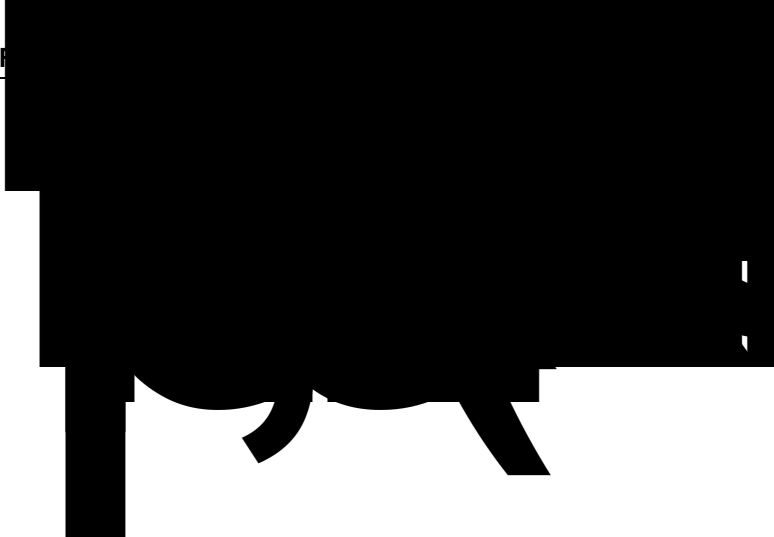
Rocker switch and button





Rocker switch and button





OBD diagnostic interface

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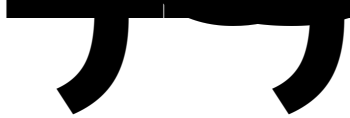
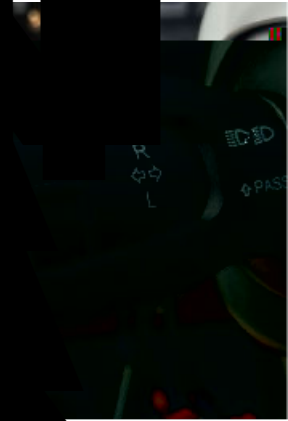
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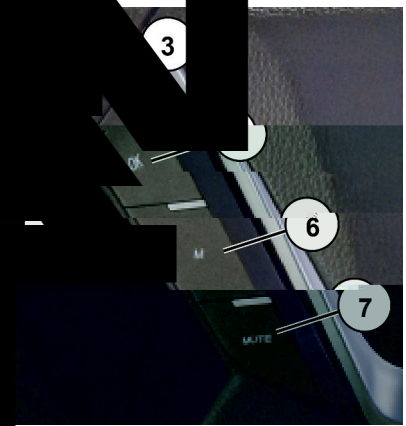
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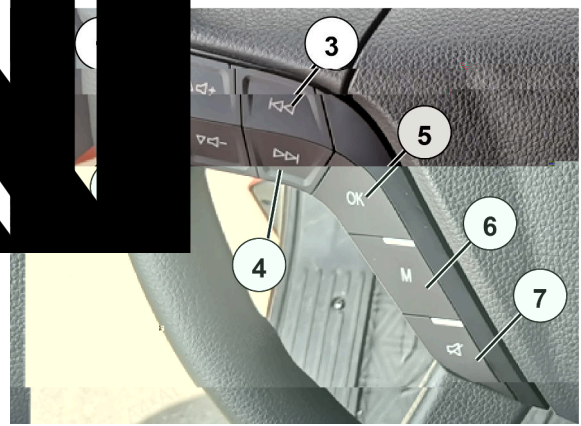


Steering wheel button

Steering
Steering

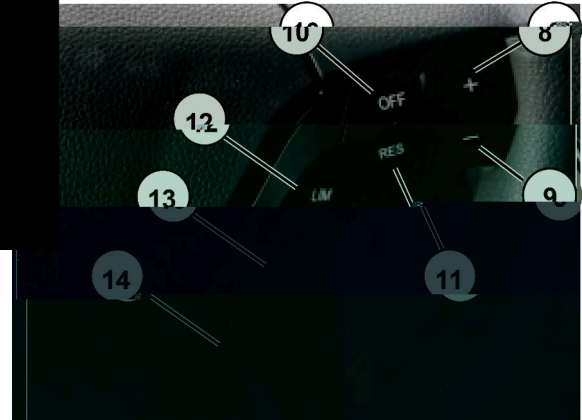


Steering
Steering



Steering wheel

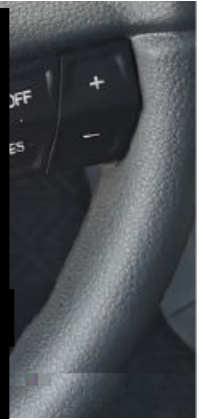
Right side of



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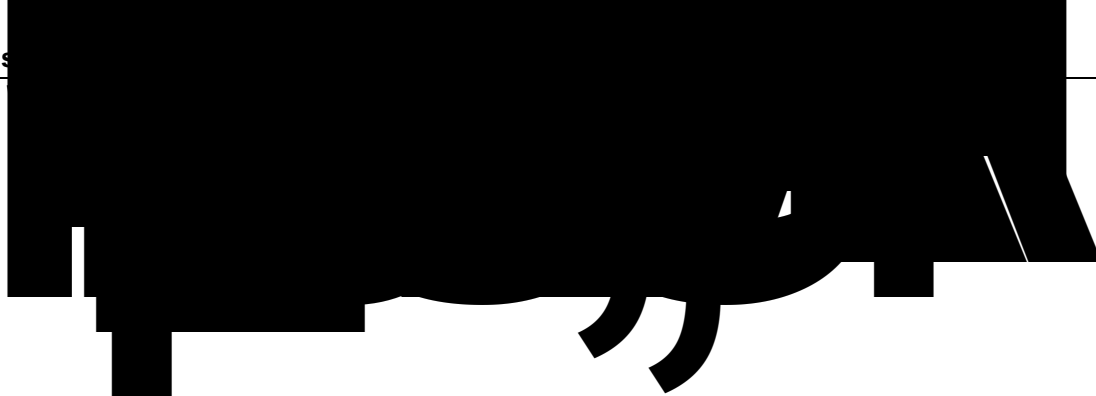
Cruise control

Cr



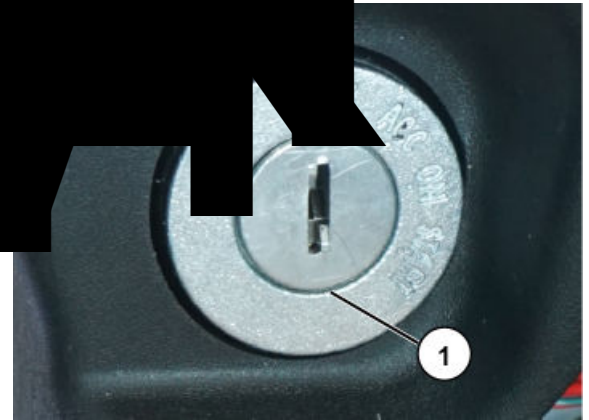
Cruise exit

Cruis



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Key



DANGER!

- During driving, do not turn the key switch to the "LOCK (0)" position, otherwise the key switch will lock the steering wheel, and the vehicle will not be able to turn!
- When you leave the vehicle, you shall take the key from the key switch even if you leave for only a short time. Otherwise, children or unauthorized persons may start the engine and drive the vehicle away.



CAUTION!

- Before starting the vehicle, turn the key to the "START (III)" position. After releasing the key, it will automatically return to the "ON (II)" position.
- If you want to turn the key to the "START (III)" position to start the engine again, first turn the key to the "LOCK (0)" position before turning it to "START (III)" position to start the engine.

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24V power socket

24V po



USB

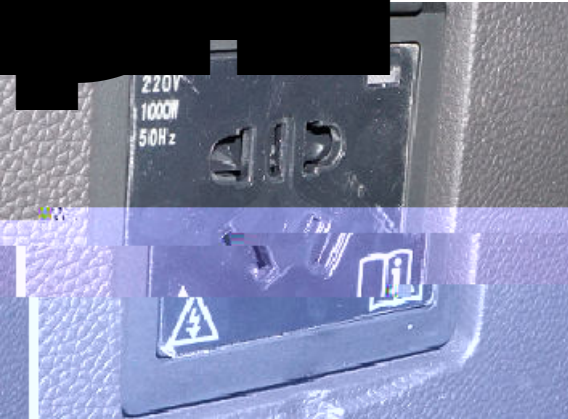
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power socket

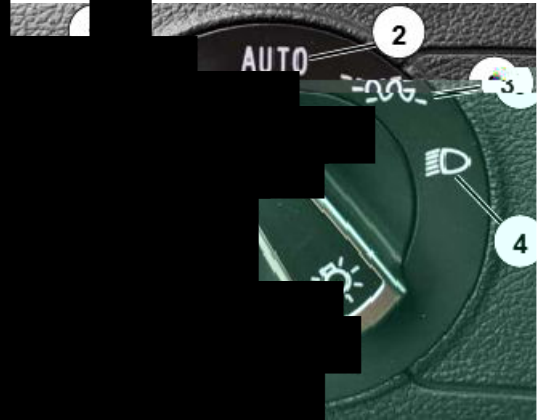
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switch operation

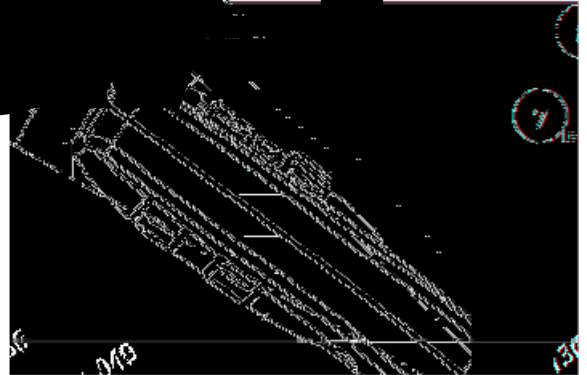
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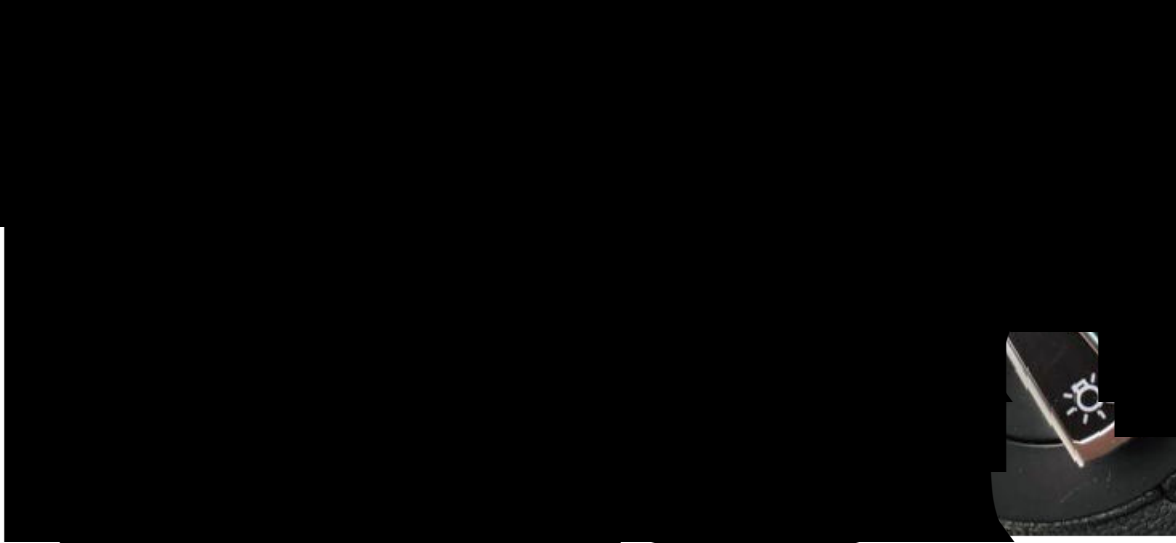


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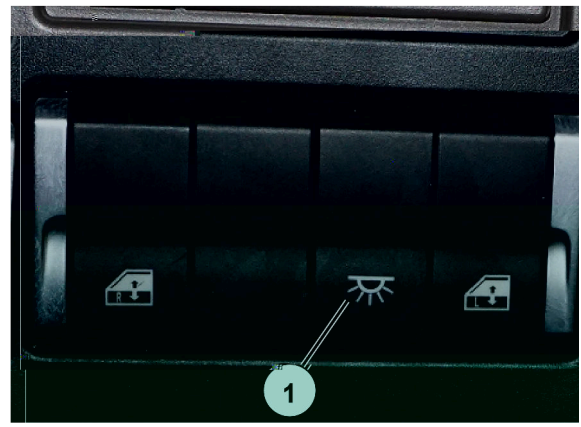
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Interior light switch operation

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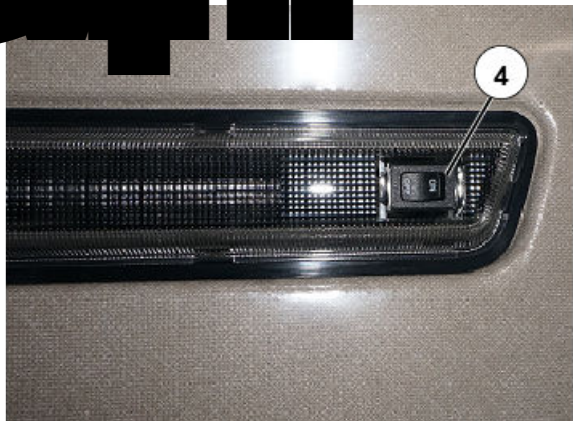
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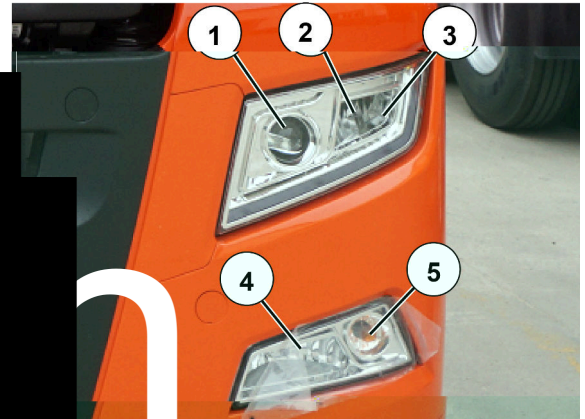
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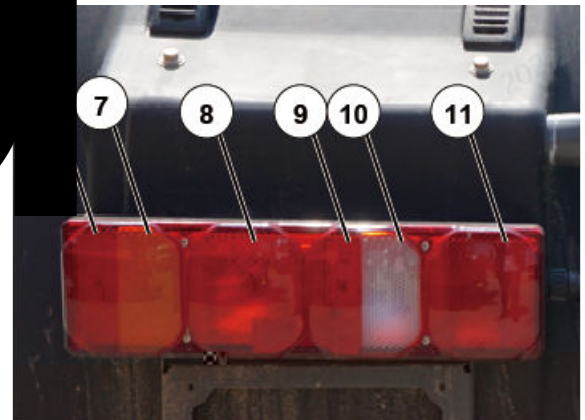


Headlight and taillight

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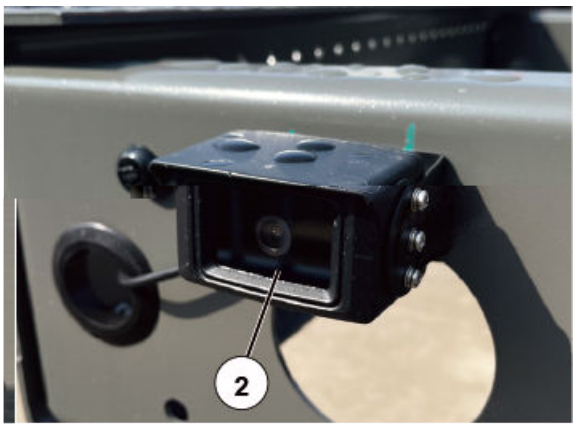
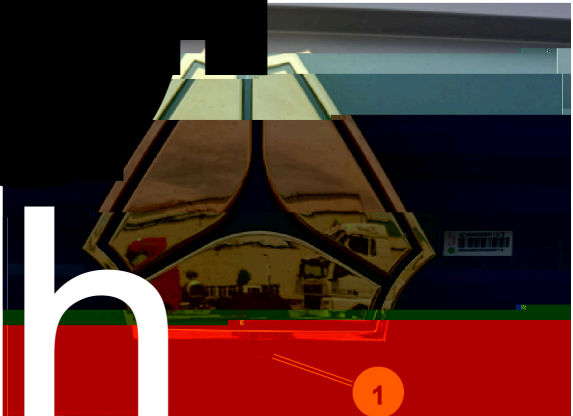
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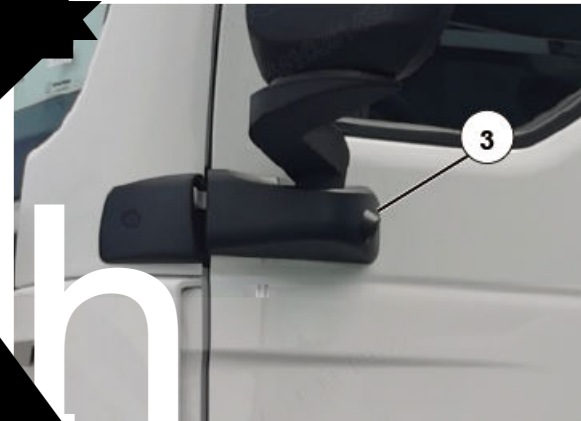


Camera position

Cam



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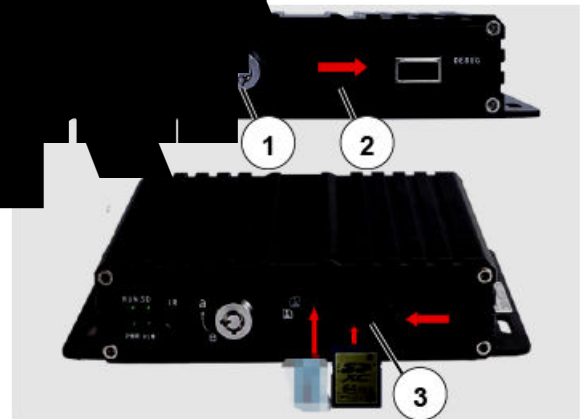
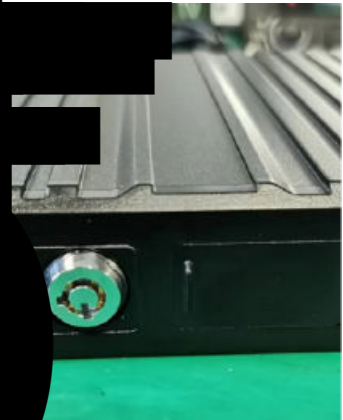


Introduction and operation of system fu

Function	
Picture display	
Camera compatibility	
Storage media (SD card)	

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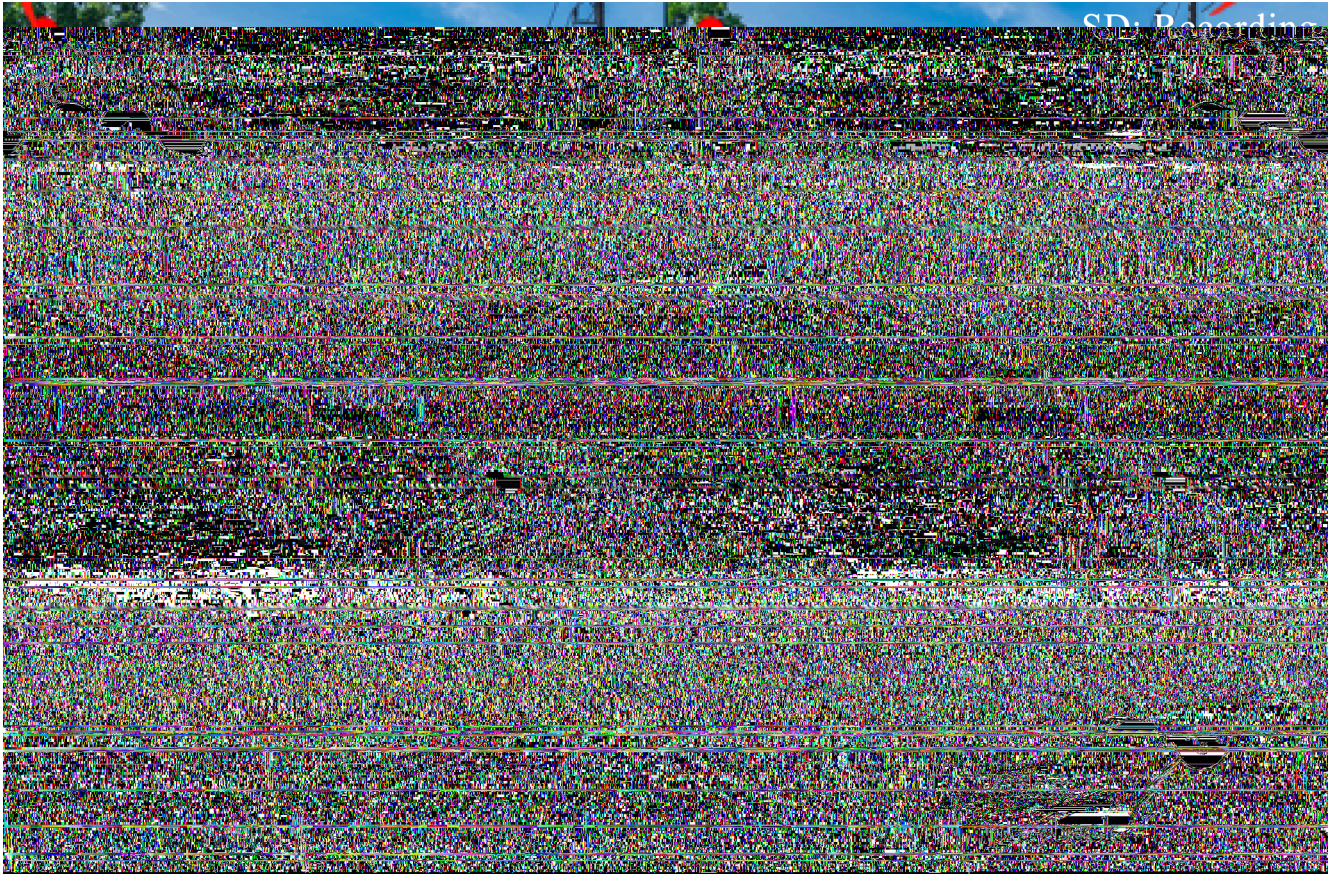
SD ca



CAUTION!

–Be sure to lock the SD card lock, otherwise, the SD card function cannot be used!

–The installation and removal of the SD card should be carried out in a power-off state (i.e., when the "PWR" indicator lamp of the host is completely off) to avoid damaging the SD card and affecting its normal use.



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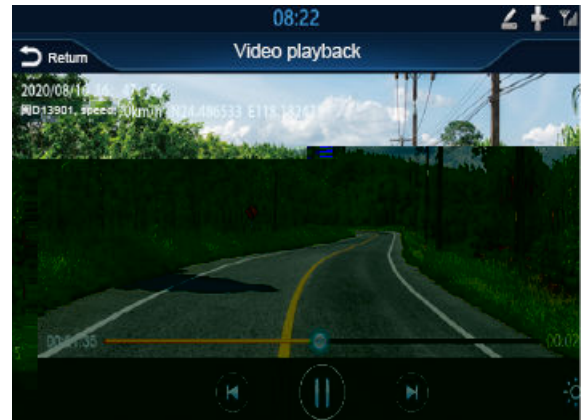
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of system function

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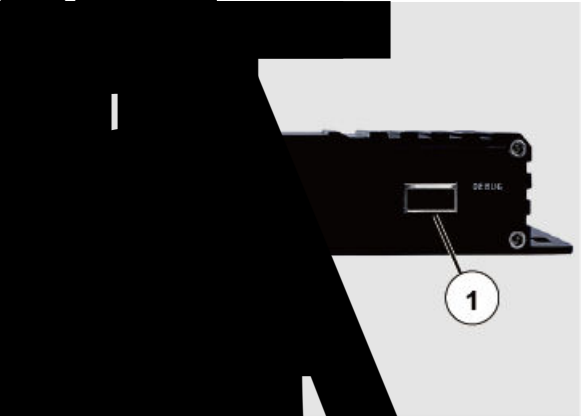


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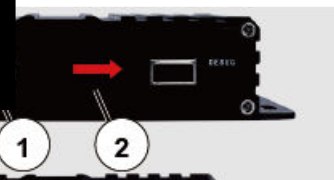
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Common faults

No.	

Introduction and operation of system function

Precautions during use



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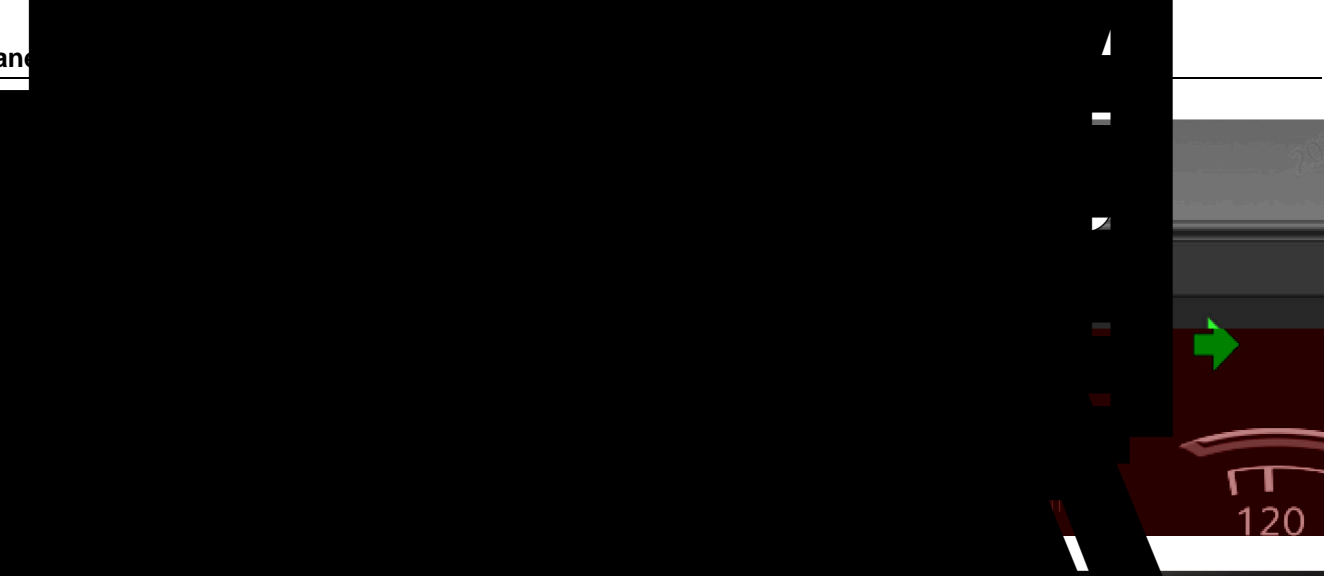
WARNING!

- It is strictly forbidden to flush the radar system with a water cannon when washing the vehicle.
- To ensure driving safety, the ASR/ESC function shall not be deactivated at will!

Land

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IMPORTANT

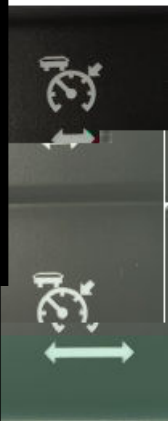




WARNING!

This function shall be used on express ways or roads with clear lane lines. The departure warning system is just a driving assist system, and this system itself does not control the vehicle in any way. The driver shall be fully responsible for the driving safety of the vehicle.

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Forward collision



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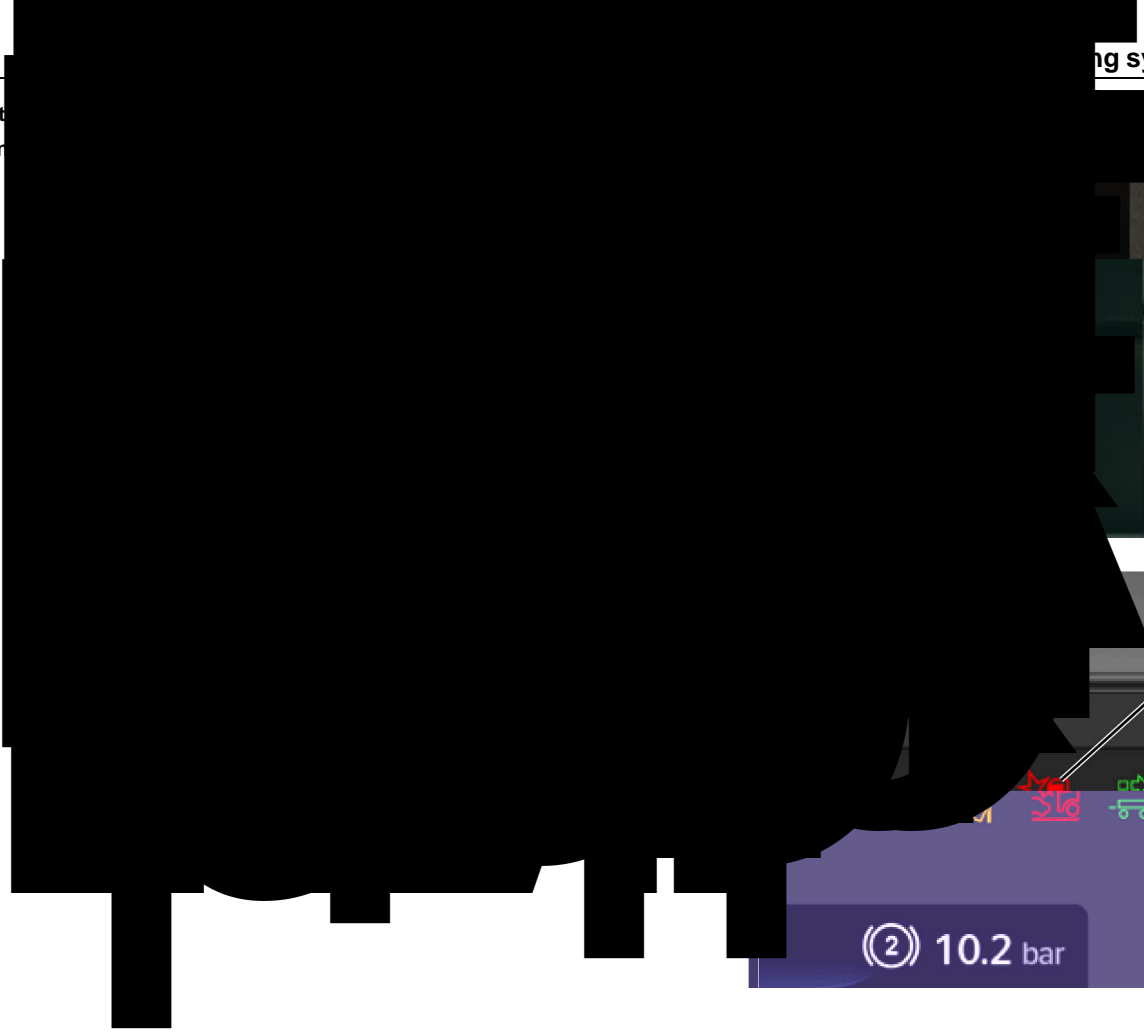
WARNING!

-The forward collision warning system is an important driver assist system, please do not turn off or restrain it at will!

-As the forward collision warning system cannot learn the current conditions of traffic and weather, therefore, the driver shall be fully responsible for the driving safety of the vehicle. Relying solely on the Forward Collision Warning system to ensure driving safety is completely inadvisable!

ng system (AEBS)

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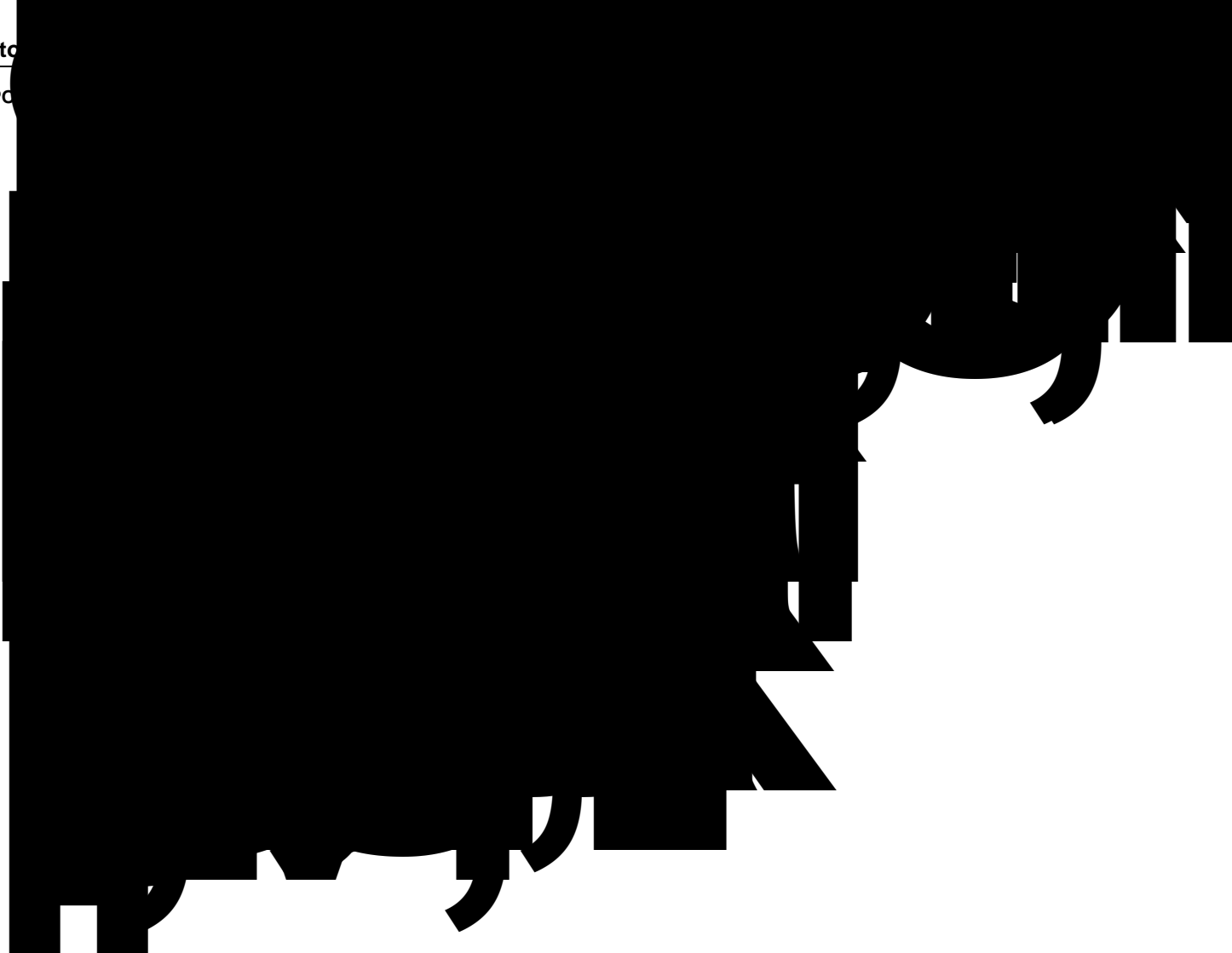


(2) 10.2 bar



Auto

IMPC





CAUTION!

-The automatic emergency braking system only responds to the front vehicle moving in the same direction and the crossing pedestrians. It may fail in providing correct response to non-motor vehicle targets such as motorcycles and bicycles and to emergency vehicles that are not equipped with emergency braking in the same direction.

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CAU



WAR

Automatic emergency braking system (AEBS)



WARNING!

- Automatic emergency braking system is an important driver assistance system. Do not turn it off or suppress it without reasons!
- The automatic emergency braking system cannot understand the current traffic and weather conditions, so the driver shall be fully responsible for the driving safety of the vehicle. It is completely wrong to rely only on the automatic emergency braking system to ensure driving safety!
- The automatic emergency braking system is designed to ensure the driving safety, but it cannot completely avoid collisions!
- Automatic emergency braking system cannot be used as a substitute for maintaining a safe driving distance from the vehicle ahead!

(PPC) system

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F



Pre

IME



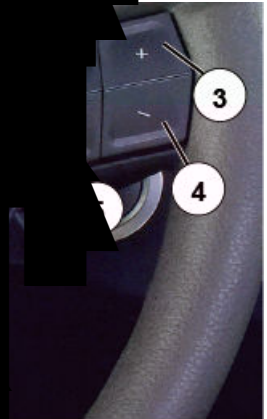
)

A E C

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ACC control (ACC)





IMPO

**CAUTION!**

–When the adaptive cruise control (ACC) is working, if the vehicle in front drives away, the system will automatically increase the vehicle speed to the previously set cruising speed. When passing through intersections or wet and slippery roads, the driver shall pay special attention to the risks caused by this situation and drive the vehicle carefully.

–When the distance from the vehicle in front is too close, the adaptive cruise control (ACC) will automatically request the brake system to work. If the braking-based deceleration is not enough to maintain a safe distance, the system will send an alarm message. The driver shall actively press the brake pedal to avoid collision.

**CAUTION!**

–The adaptive cruise control (ACC) may request the driver to take over the control of the vehicle at any time. Typical operating conditions include but are not limited to:

- Long-time downhill driving following another vehicle (risk of overheating brakes), significant deceleration of the vehicle in front, low engine speed, etc.

–The adaptive cruise control (ACC) is a driver assistance system and cannot replace the driver's control of the vehicle under any circumstances. The driver still needs to control the vehicle during driving and determine any necessary operations for safe driving.



CAUTION!



WARNING!

- Do not use the adaptive cruise control (ACC) when ABS is faulty.
- The adaptive control system is a driver assistance system. In order to improve the driving comfort, it is necessary to limit the maximum braking deceleration of the vehicle. When encountering a operating condition where the front vehicle is in emergency braking and the braking force provided by the adaptive cruise control system of your vehicle is insufficient to maintain a safe distance from the front vehicle, the system will send an alarm message and then exit the adaptive cruise control.



WARNING!

- Do not disassemble the radar without permission. The radar cover shall be kept clean. No other items shall be installed on the front and the radar cover shall be painted. Otherwise, the system function may be affected.
- Do not use the ACC function on mountain roads, traffic jams or slippery roads.
- The adaptive cruise control (ACC) is a driver assistance system. Limited by weather, road surface and other conditions, the system may not provide a safe distance from the vehicle in front under all operating conditions. Do not use the adaptive cruise control in foggy days, heavy rain, icy and snowy days and other bad weather. The driver is fully responsible for keeping a safe distance between the vehicle and the front vehicle and shall take full responsibilities for potential traffic conditions that may occur at any time.



Hold control (HHC) system



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hold control (HHC)
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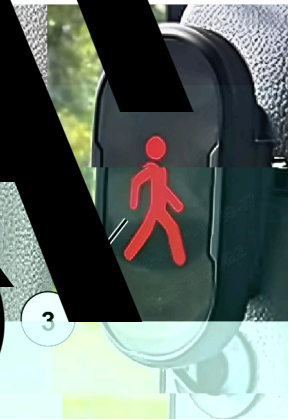


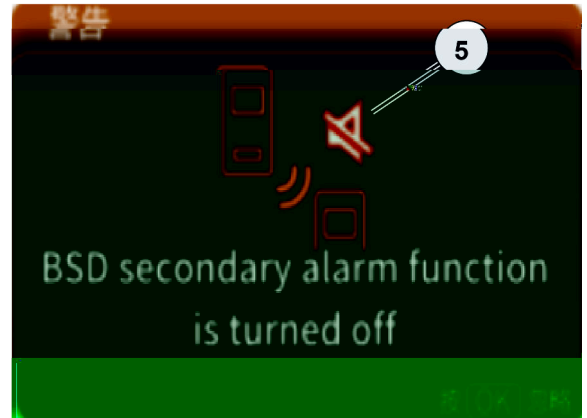
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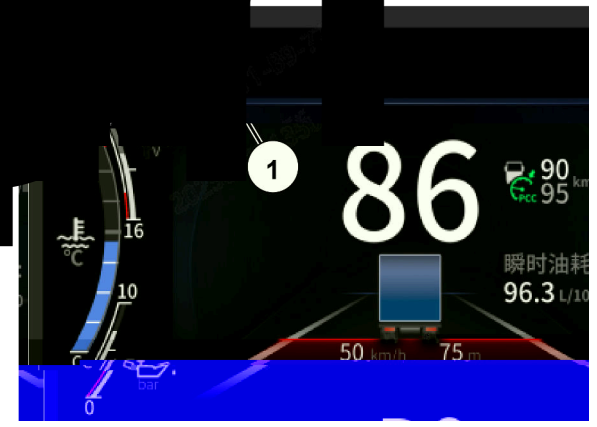


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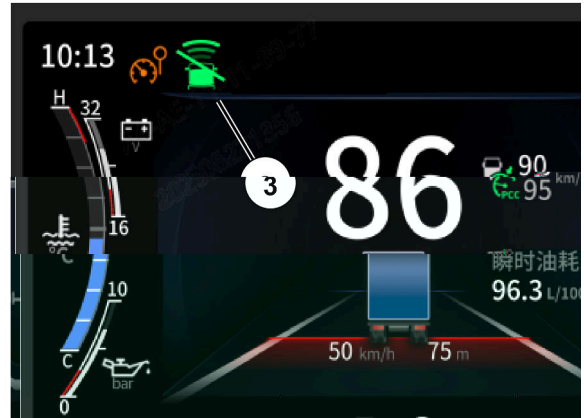


Information assistance system
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may affect camera performance and
function.

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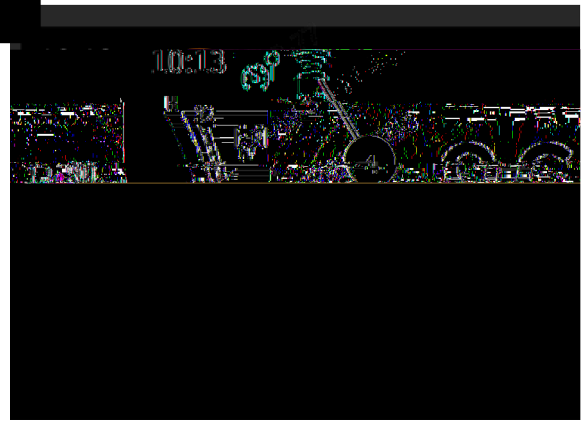
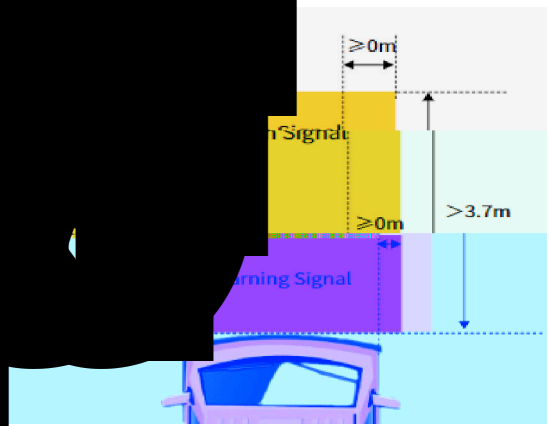
ation system (MOIS)

Alarm

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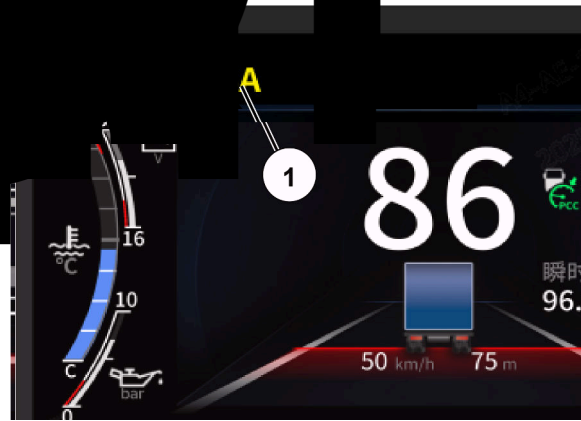


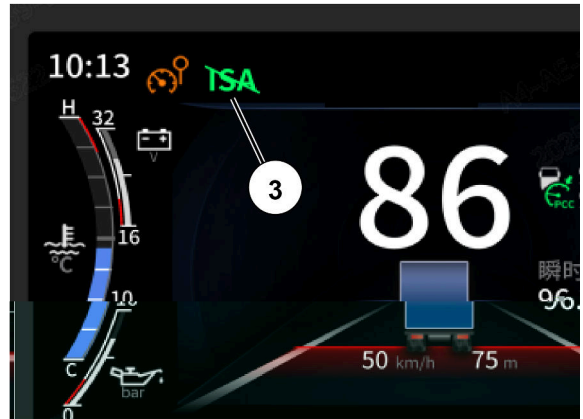
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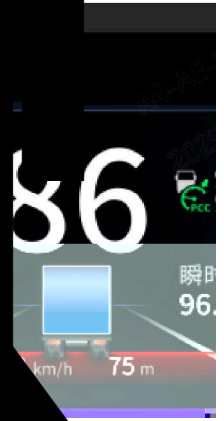


Information system (MOIS) is
distance feature; it does not
. The driver is fully
vehicle safety at all times.
the camera without
the camera is impacted or
red, please visit a service station for
a angle adjustment or calibration. Failure
may affect camera performance and
function.

Int
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Int

Veh

Cautions



WARNING!

- The intelligent speed assistance (ISA) function only displays the speed limit and issues overspeed alerts; it does not actively adjust or intervene in the vehicle's speed.
- This feature is a driving assistance system and does not apply to all scenarios. Drivers should maintain a safe speed and exercise caution, strictly adhering to local traffic regulations and current road conditions. The driver is fully responsible for the safety of the vehicle during operation.
- Do not remove the camera without authorization. If the camera is impacted or scratched, promptly visit a service station for camera angle adjustment or calibration. Failure to do so may affect camera performance and cause system malfunction.

Dr

warning (ADDW)

Dr

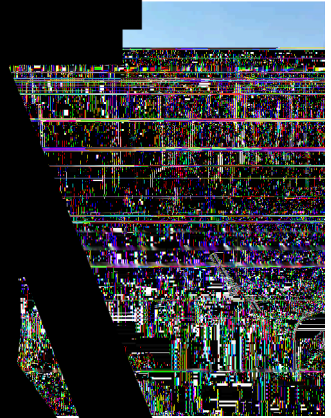
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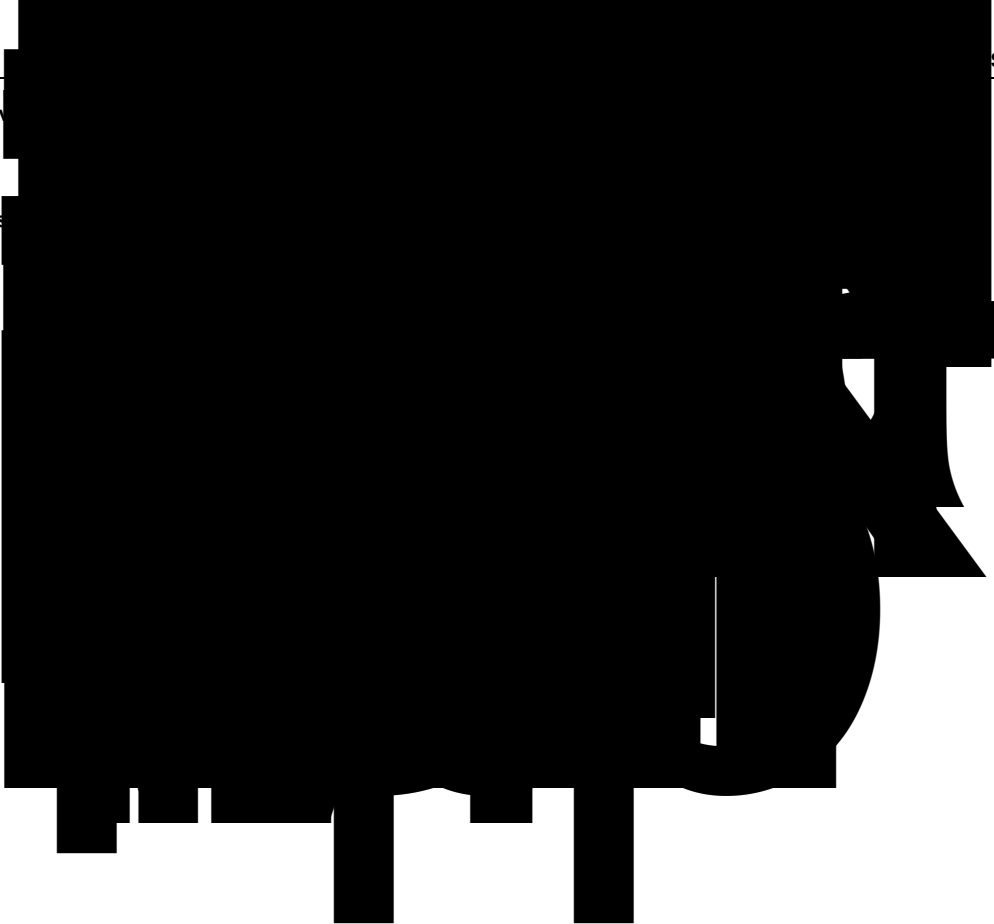
Driver drowsiness and fatigue
DRIVER FATIGUE AND DROWSINESS

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Adv

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In
In
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WARNING!

Brake system cannot exceed its physical limits. In particular, when driving on a smooth, wet road or a road with extremely poor condition, you shall constantly adjust your driving behavior to adapt to different road conditions and traffic conditions.

Brak



WARNING!

- When you find that the braking system is faulty, stop the vehicle by applying the service brake or emergency brake, seek help from a CNHTC service station, and resume driving only after troubleshooting.
- If the ABS is faulty, the wheels may be locked up during braking. Visit the nearest CNHTC service station for repairing.



Se
Se



W

-If the linkage cut-off function of the exhaust gas brake is not disabled, and when the brake pedal is pressed, the exhaust gas brake will automatically function.

-In rainy or snowy weather and when the road is wet and slippery, in order to ensure driving safety, operate the brake linkage setting on the driver display screen, and select deactivation to disable the exhaust gas brake linkage function.



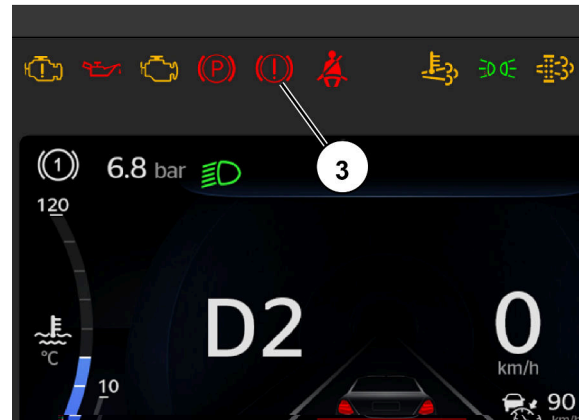
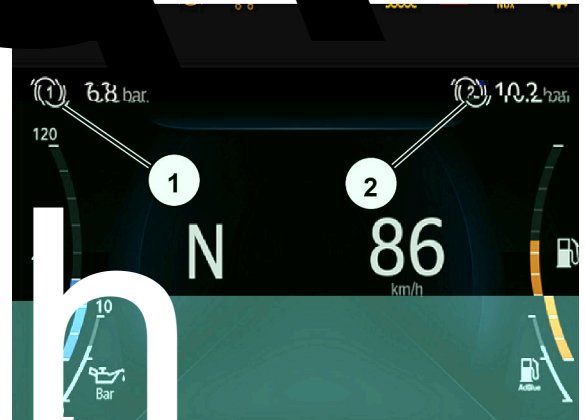
Air pres



WARNING!

–If the air pressure is too low (below 0.55MPa), the warning lamp lights up. The vehicle can only be started after the warning lamp goes out and the displayed warning information is gone.

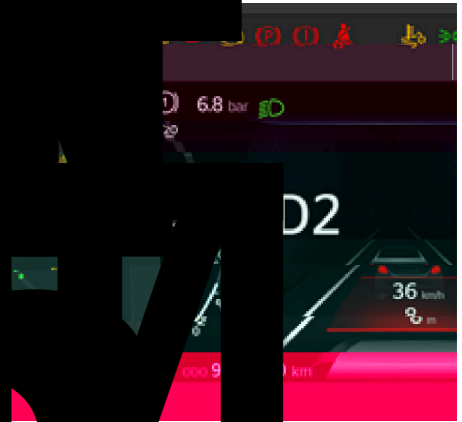
–After starting, test the braking function (service brake and parkingaf st n ps su ae



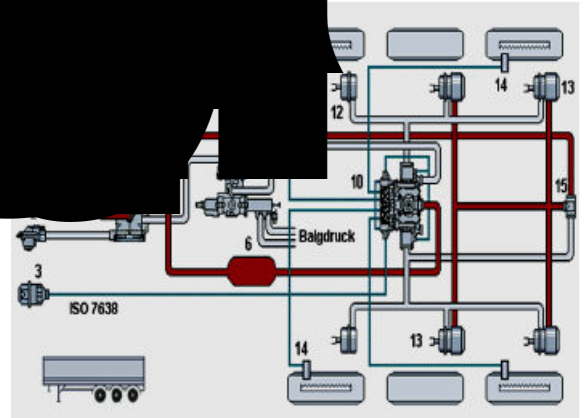
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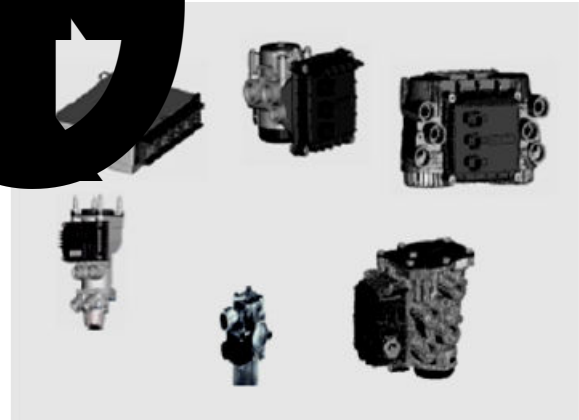
Service braking





WARNING!

When the EBS is faulty, the ABS indicator lamp will be on. A yellow light represents a general fault, and it is recommended to repair as soon as possible. Red light represents a severe fault, and you need to drive the vehicle to the nearest CNHTC service station for repairing. When a power failure of the EBS occurs, the emergency function of the EBS system will work. In this case, the braking performance will decline, and the vehicle needs to be repaired at the service station as soon as possible.



ES



WARN

- Sideslip may still occur on a very slippery road surface even with the ESC.
- On trucks equipped with the ESC, please drive at a slow speed on curves with a large camber. Driving too fast on curves with a large camber may lead to ESC intervention, affecting the driving experience.

Pa



WARNING!

When stopping the vehicle, be sure to apply the parking brake, and use wheel pads to prevent vehicle skidding if necessary!

- Do not start the vehicle until the parking brake signal lamp goes off!
- Before starting the engine, place the handle of the hand brake valve in the parking position. Otherwise, after the

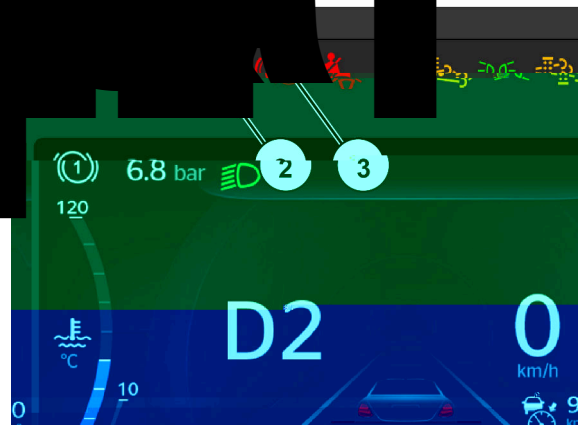


ing brake

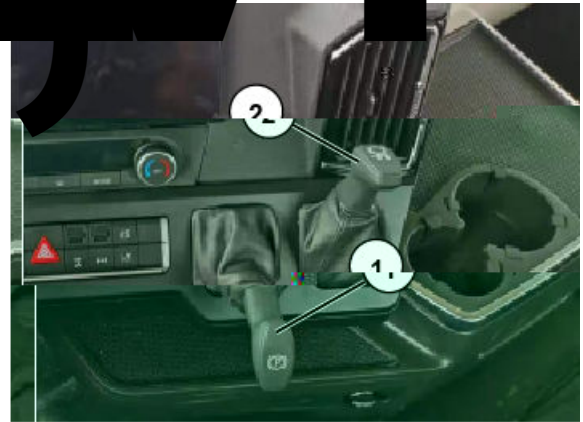
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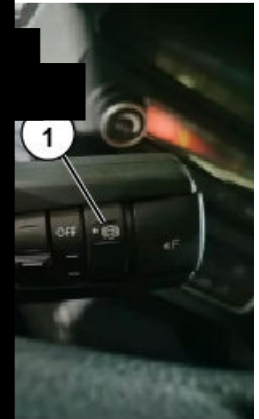


Testing point of part



Auxiliary brake

Au
Au



Auxiliary brake



WARNING!

- Use exhaust gas brake carefully on wet, dirty or icy roads, as the vehicle may slip and slide in such a case.
- When going down a long slope, use the exhaust gas brake in the transmission gear, because the neutral gear cannot play the braking role.
- The engine rpm shall not exceed 2400 rpm when the exhaust gas brake is used.
- The exhaust gas brake is an auxiliary brake, not an automobile parking device. Therefore, it cannot substitute the service brake of the car. The service brake shall still be used to stop the car completely.

Trailer brake

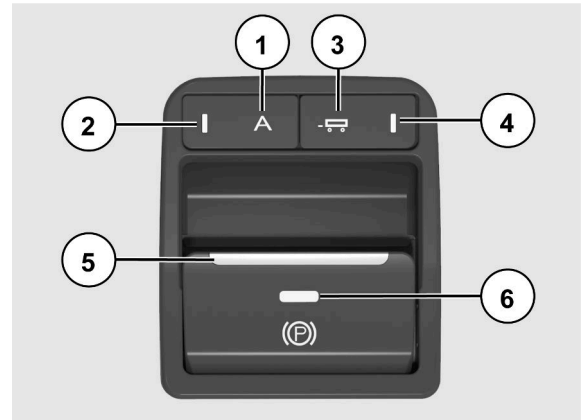
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–When the EPB switch handle is pressed without pressing the brake pedal, the electronic parking system cannot release the parking brake. The dashboard displays the prompt "Press the brake pedal to release parking brake" with an audible alarm.

–When the system pressure of the whole vehicle is lower than 5.5bar, and the brake pedal is pressed and the EPB switch handle is pressed, the electronic parking system cannot release the parking brake. The dashboard displays the "Low Air Pressure" prompt with an audible alarm.

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Force



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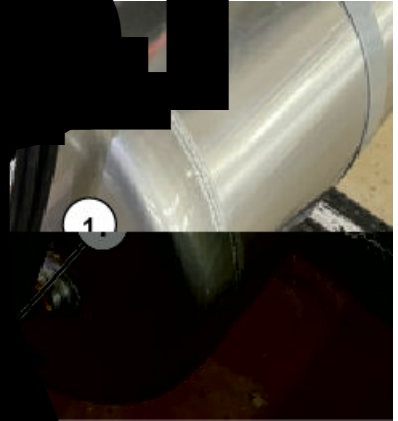
Parki



WARNING!

The purpose of this function is to detect the park braking force of the driving vehicle. Please do not use it unless necessary.

Daily
Inflation



Auxiliary
Inflation



WARNING!

It is not allowed to connect with a ferrule pipe connector here.

Protection measures for brake pipeline



WARNING!

When performing welding, cutting or drilling holes near the nylon pipe used for braking, the following instructions shall be followed:

- Release the air pressure in the pipeline first.
- Cover the pipeline to protect it from being damaged by sparks, flames and hot chips.
- The maximum allowable heating temperature of non-pressure pipe is 130 , and the maximum duration is not exceeding 1 hour.



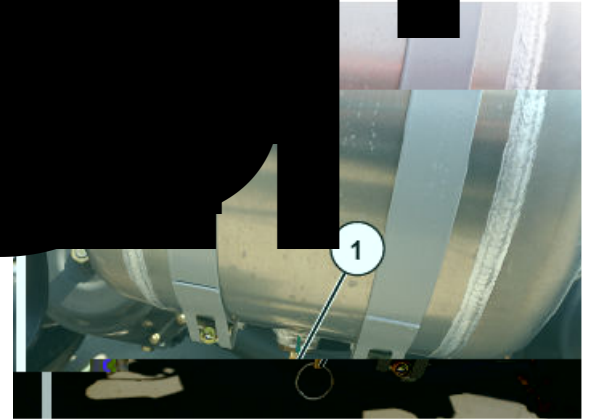
CAUTION!

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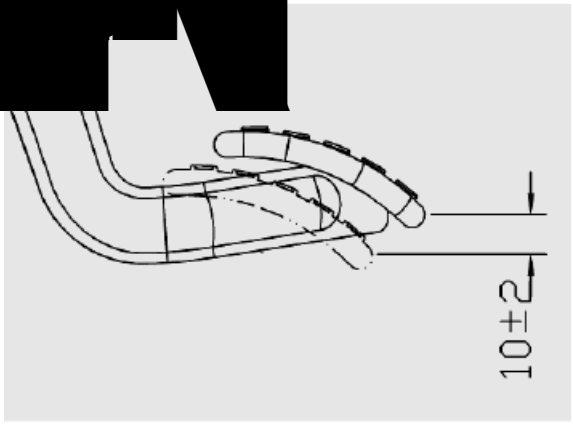


WARNING!

- After parking in winter in cold areas, all air reservoirs shall be emptied to prevent the brake valve from jamming and affecting the braking effect.
- During winter, increase the frequency of draining water from the air reservoir as needed.
- Do not add any additives to the brake air circuit. Some additives may be flammable, explosive, and corrosive to organic materials such as rubber seal rings.



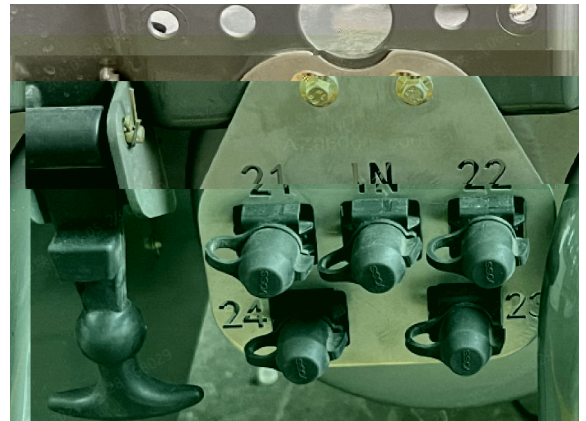
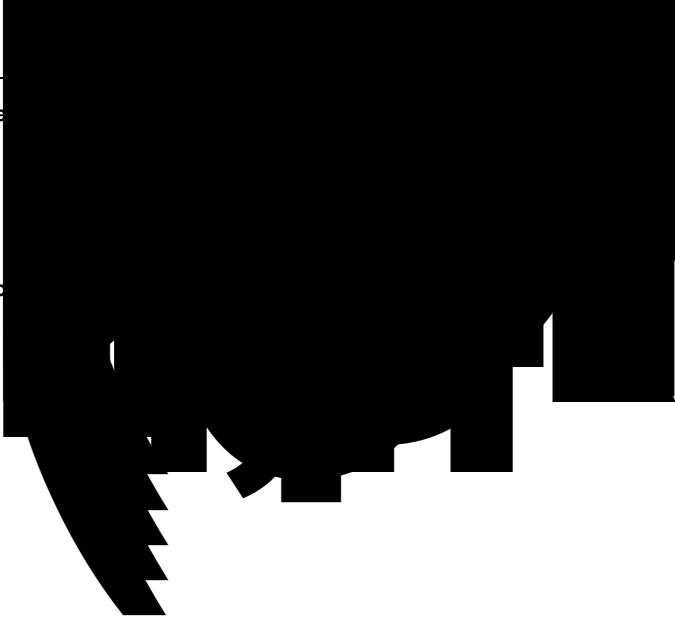
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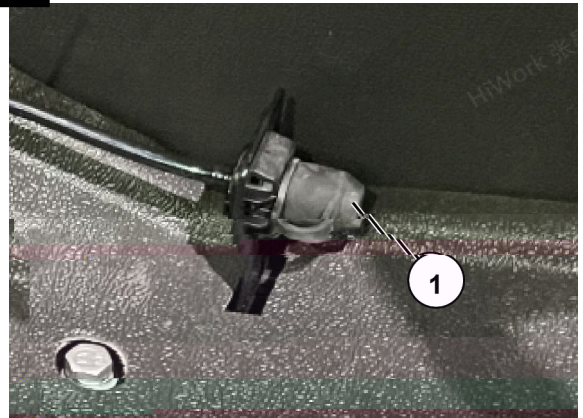
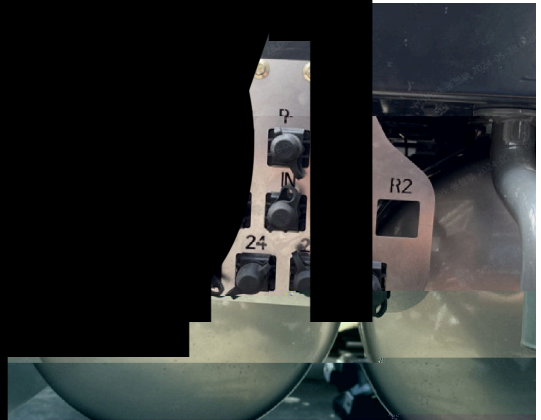
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Rated working pressure of air reservoir kPa

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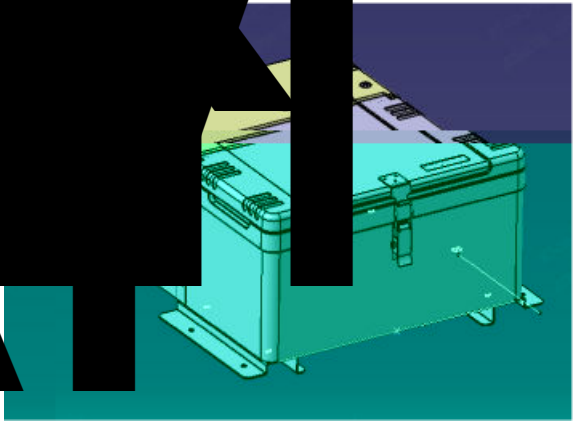
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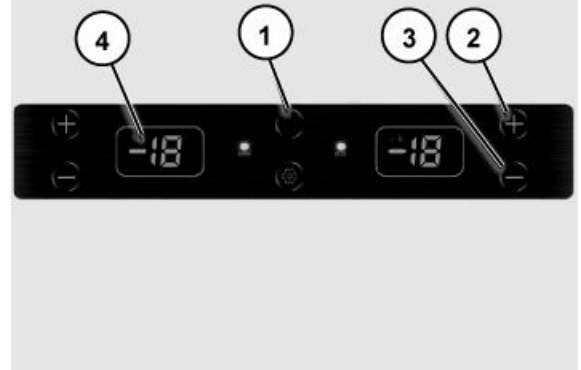
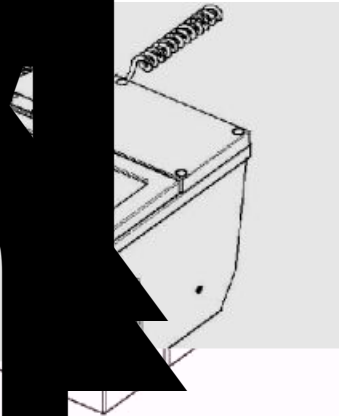
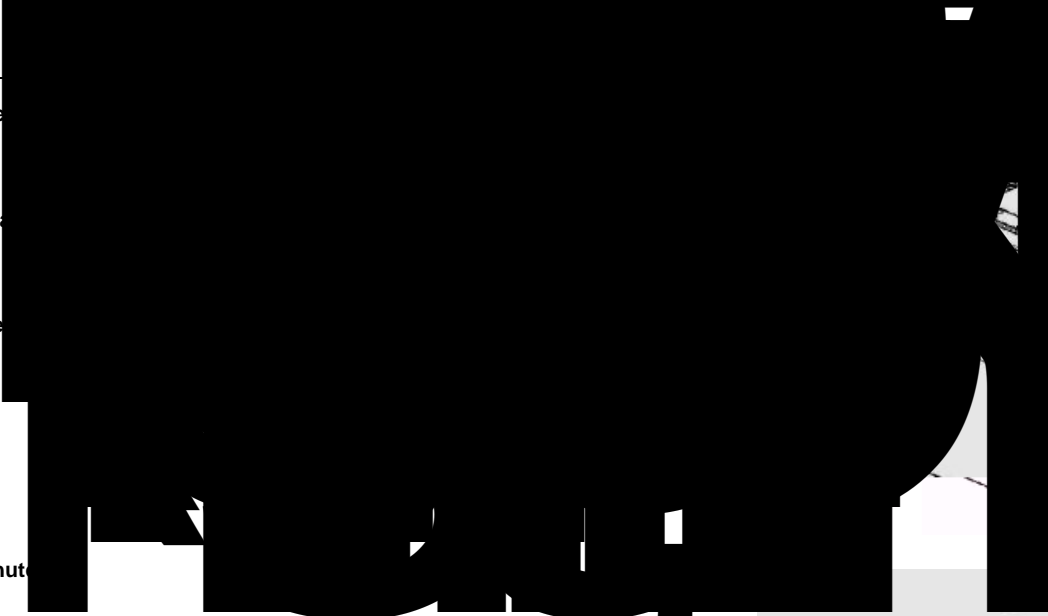
temperature control)

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Shut



Refrigerat

Fault code	

Air conditioning system (US standard)



WARNING!

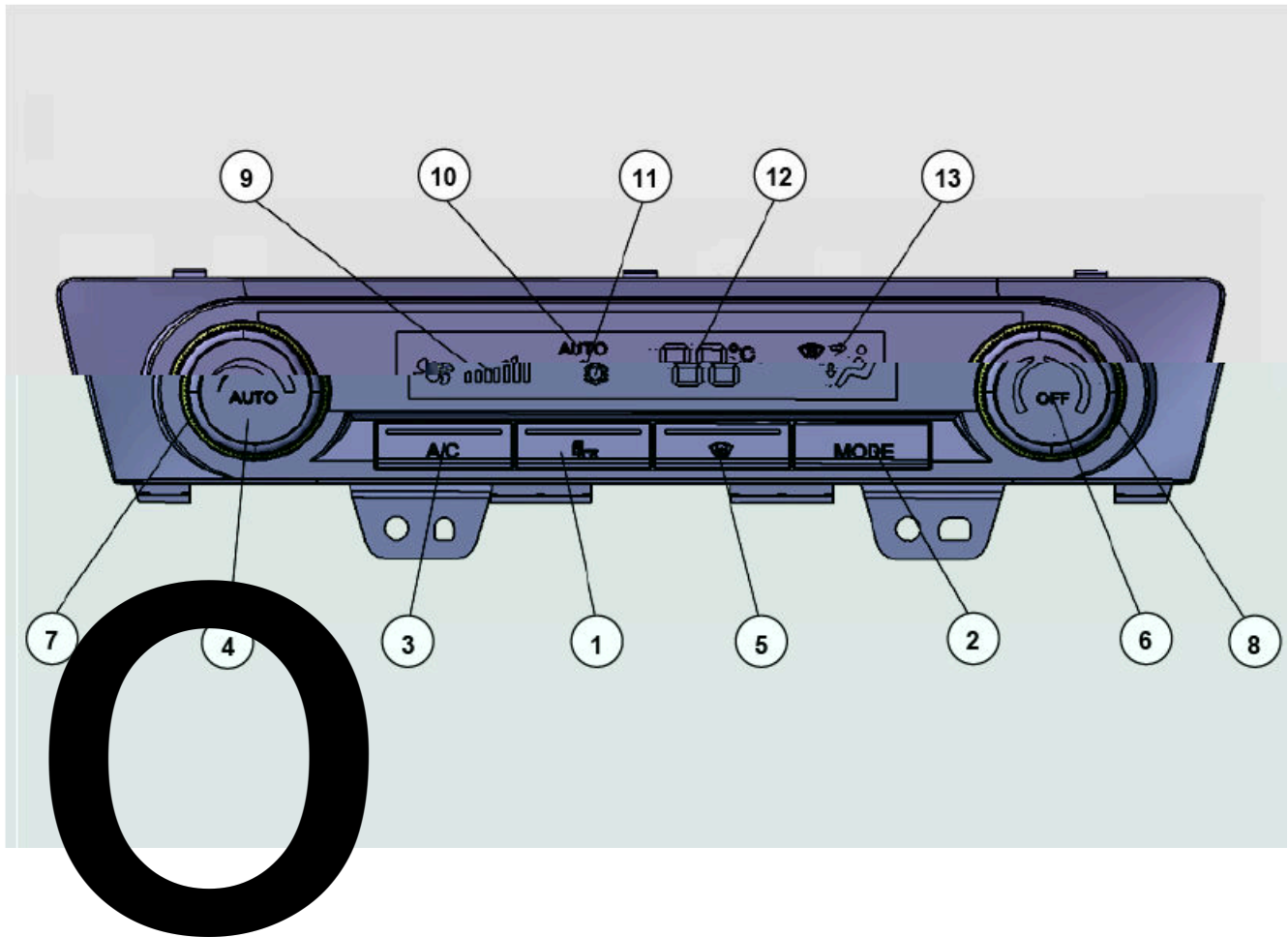
- The refrigerant is R134a, and the filling amount is 675 g±25 g (except in heat regions, the filling amount is 775 g±25 g, subject to the A/C label).
- When there is a loss of lubricating oil in the system, supplement with an appropriate amount of the lubricating oil designated by the manufacturer of the compressor.
- The maintenance of the air conditioning system and the filling of refrigerant shall be conducted by specialized maintenance personnel.
- It is prohibited to flush the front wall of the cab when the air conditioning system is in the external circulation state.
- Operate the air conditioning 1-2 times to ensure that the compressor is sealed reliably and lubricated.





CAUTION!

- After the vehicle has been parked for a long time (more than 1 month), if you need to use the A/C cooling function, please follow these steps:
 - Start the vehicle normally;
 - Keep the idle state, start the A/C control panel, and inch the A/C switch (the A/C on the A/C control panel lights up for 2-3s and then disconnects, with more than 10s interval before pressing A/C switch next time) 3-4 times.
 - Normal use.

Air conditioning system (US standard)



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Air conditioning system (US Standard)

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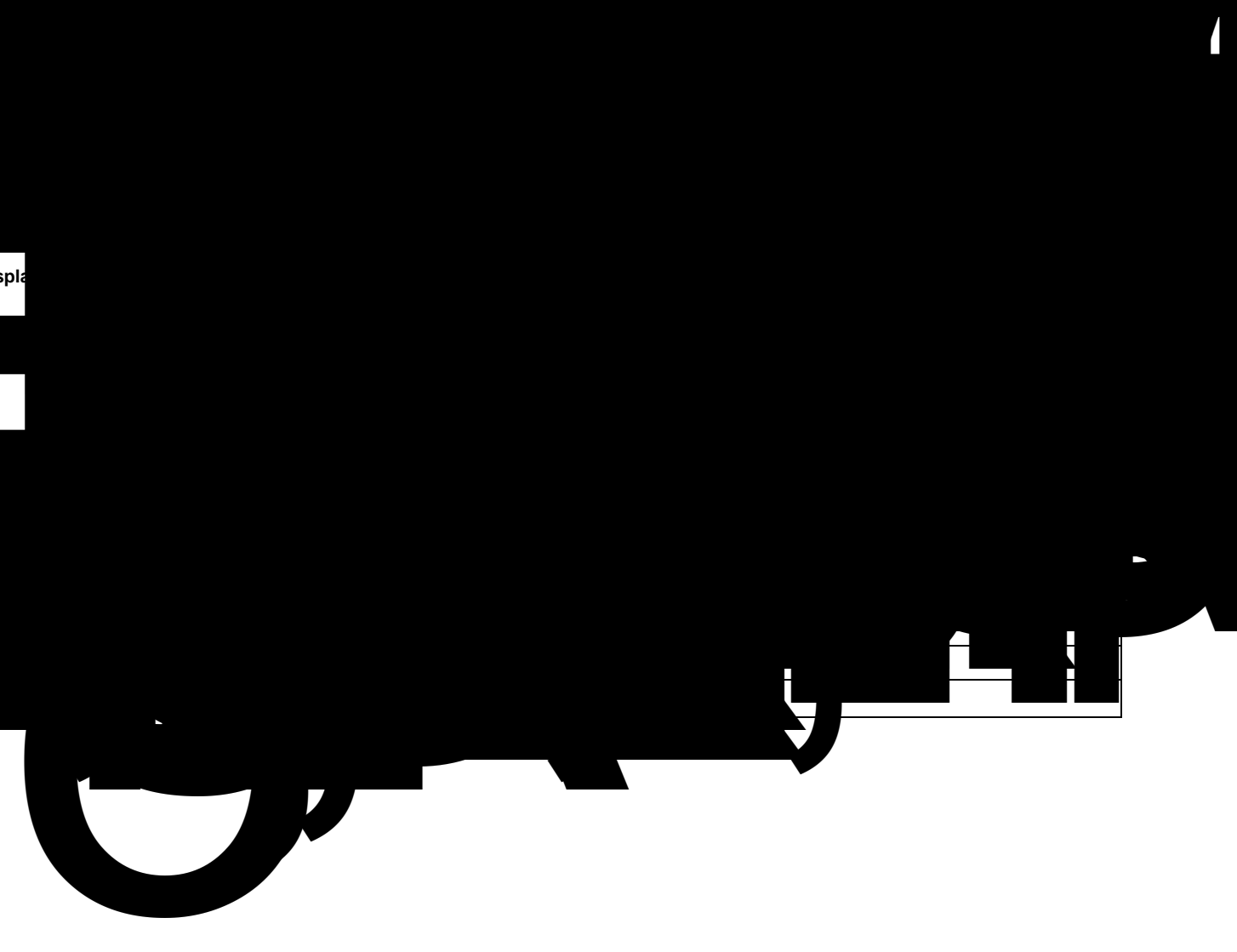
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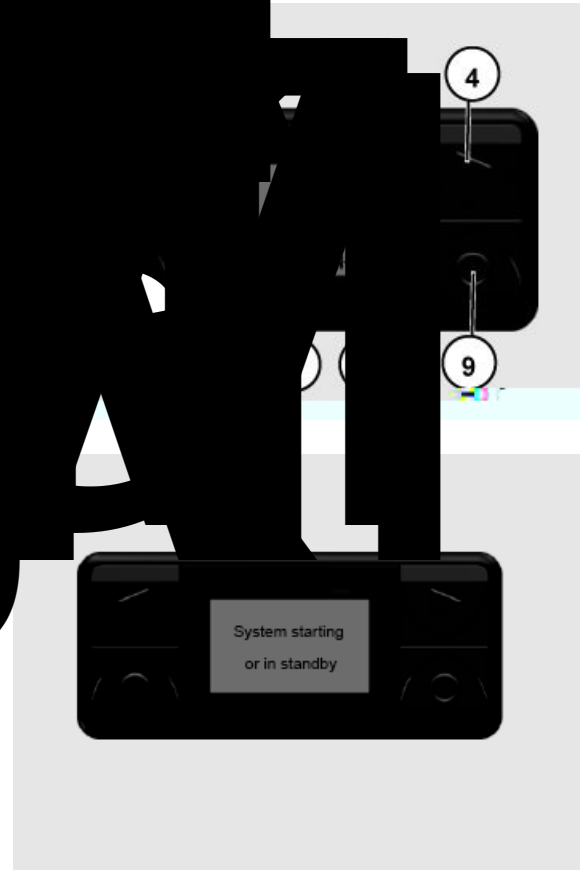


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SSS IN-27°C



AUTO 22°C
SSS IN-27°C

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DTC	Flashing code of the indicator	



Independent heating system (Jingw

DTC	Flashing code of the indicator	

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5

Power on or not

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One-button starting r

One-key oil pump

Start

Fault



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system (Webasto)

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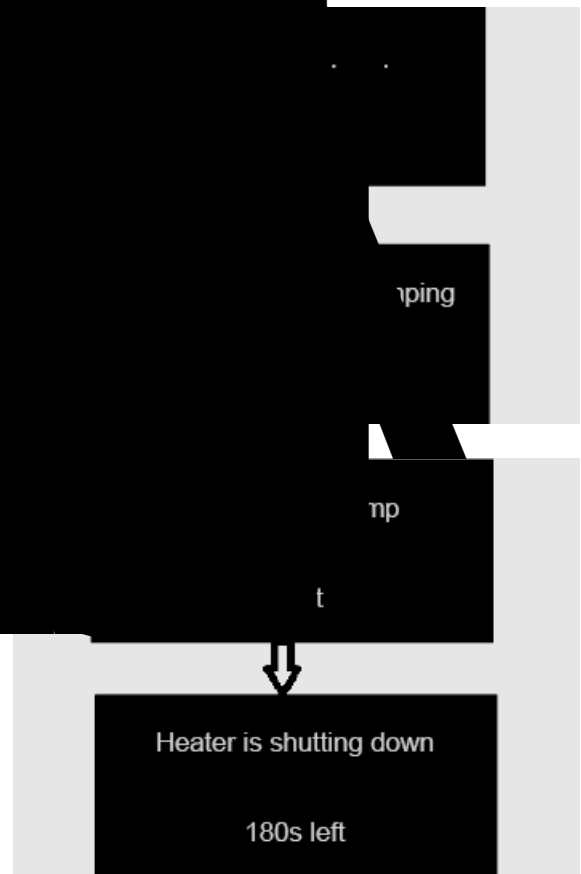
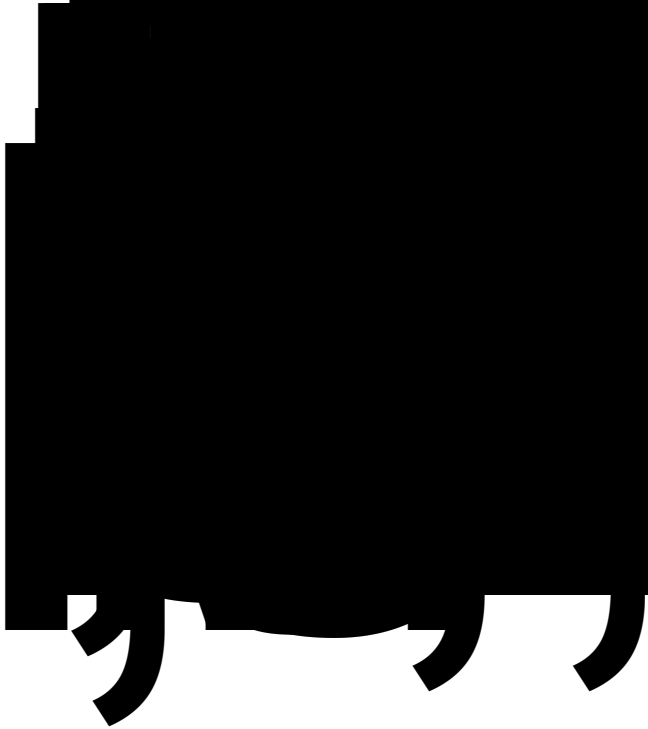
One-button oil
Note: This mo
maintenance



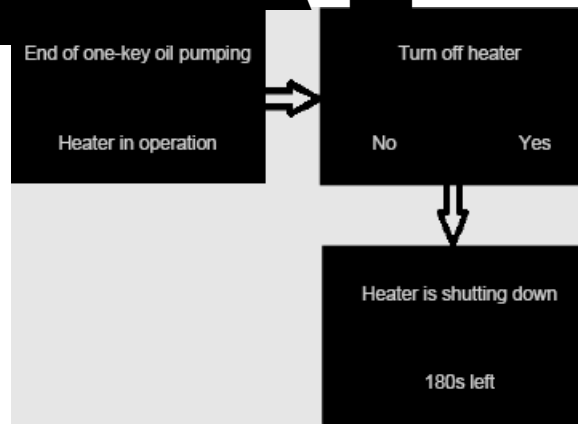
One-key oil pump

Start

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ating em (Webasto)



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2020

Language

English

Language

Simplified Chinese

Language

Русский

dependent heating system (Webasto)

DTC



Independent heating system (Webas)

Display information		
 <p>Heater fault DTC E06</p>		
 <p>Over-temperature torque gear ◀30°C 16°C▶</p>		
 <p>Over-temperature ventilation ◀30°C 16°C▶</p>		
 <p>▲ Standby ◀18°C▶ 20°C▶</p>		
 <p>Standby ◀18°C▶ 20°C▶</p>		
	1 2	1 2

Ot

Main

Independent heating system (Webasto)



WARNING!

- Do not turn on or operate the heater in environments containing flammable vapors, dust, or hazardous materials (such as gas stations, oil depots, fuel depots, coal warehouses, wood warehouses, or grain warehouses), as there is a risk of explosion.
- Do not operate the heater in enclosed spaces without exhaust extraction equipment, as there is a risk of explosion and suffocation.
- Do not operate the heater in enclosed spaces such as garages or workshops without exhaust extraction equipment, including preheating start-up operations; exhaust gases shall be directed outside the vehicle's cab, and ensure that the exhaust or exhaust pipeline is not laid out inside the cab, otherwise, there is a risk of poisoning or suffocation.
- There is a risk of fire from flammable materials in the hot air flow, avoid directing the exhaust pipe towards flammable objects or heat-sensitive parts, and avoid blocking the cold air intake and warm air outlet with dirt or objects, otherwise, there is a risk of fire.
- Ensure smooth hot air flow, hot air should not accumulate at the installation location; the heater should not be operated without a controller cover, otherwise, overheating can cause a fire hazard.



WARNING!

–If the heater has the following faults, do not use the heater, and cut off the fuse to interrupt the heater operation, otherwise there is a risk of injury caused by the faulty heater:

- The heater emits heavy smoke for a long time;
- Abnormal noise when the heater is burning;
- Obvious smell of heater fuel leakage;
- Heater is permanently locked due to fault codes;
- Damaged heater.

–In case of the above situation, please contact the franchise store in time.

–Conductive parts:

- Please disconnect the power supply of the vehicle before installation;
- Note that the electrical system shall be well grounded;
- Comply with legal requirements;
- Pay attention to the value on the decal.

–Sharp edges:

- Sharp edges shall be protected by protective strips.





Independent heating system (Eberspächer)



CAUTION!

- When the heater is put into use for the first time in heating operation mode, there may be a situation where the heater outlet blows natural wind instead of hot air. At this time, it is not a system fault, but because the oil pump needs to exhaust the air in the oil pipe before supplying oil to the heater. Just wait for the heater to automatically shut down before starting it again in heating operation mode. According to different models and configurations, start the heater several times in the above manner until the heater operates normally.
- The heater may emit an odor for a short time when it is used for the first time, which is normal within a few minutes of starting operation.
- After the heater is turned off, the control light goes out and the fuel delivery function stops, but the fan needs to cool down for about 4 minutes before stopping working.
- Since the heater operation requires air circulation, no other items can be stored around the heater to avoid affecting the normal use of the heater.
- When you are away for a long time, please turn off the heater to avoid wasting electricity.
- If the main power supply of the vehicle needs to be turned off during the use of the heater, please turn off the heater first and wait for the heater cooling fan to stop working before turning off the main power supply to avoid damaging the heater.



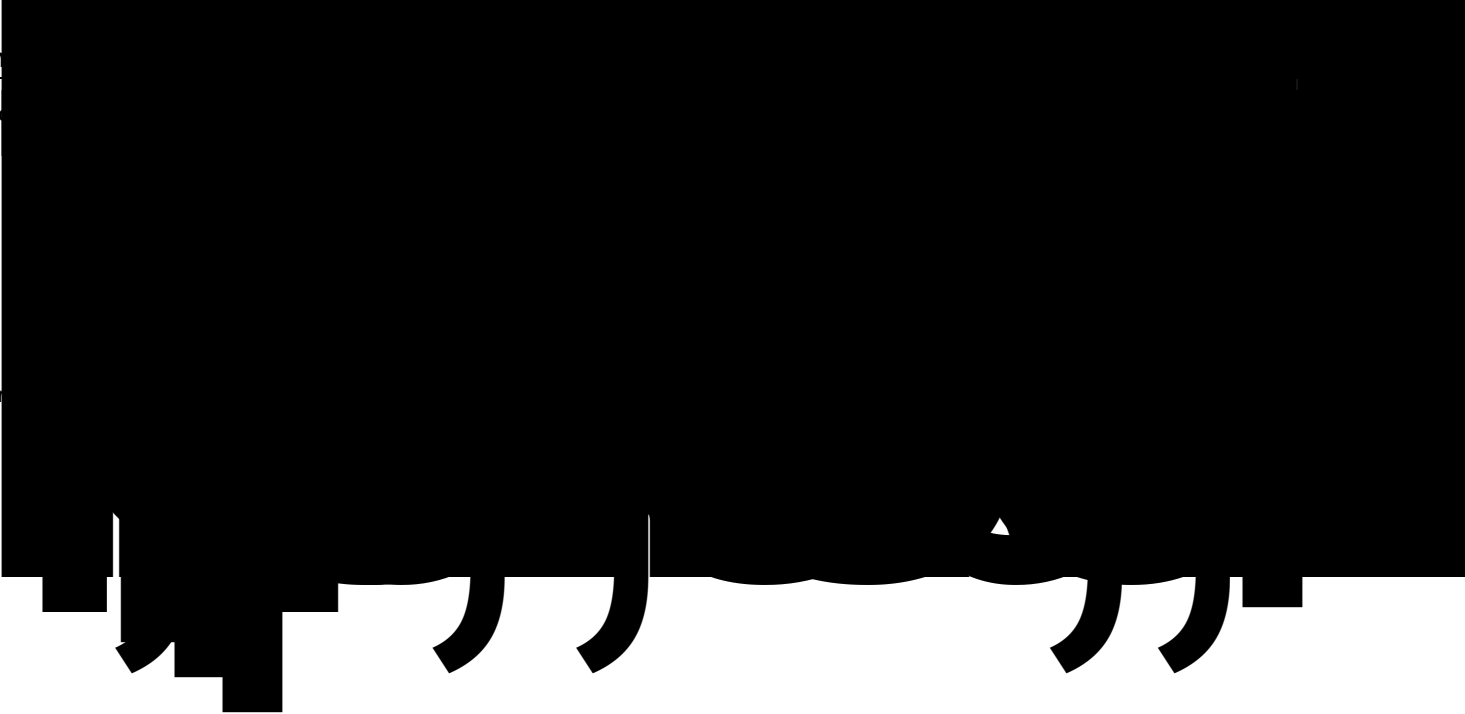
DANGER!

- There is a risk of fire, explosion, poisoning and injury!
- Heaters shall not be used in enclosed rooms such as garages or parking buildings.
- During the heating operation, the hot air duct experiences high temperatures. Therefore, operation in the area where the hot air duct is located should be avoided during the heating operation. If the operation is really necessary, turn off the heater and wait until all components have completely cooled. Wear protective gloves if necessary.
- All parts of the exhaust device are hot throughout the operation from the start of the heating operation. During heating operation, no operation shall be carried out in the area where the exhaust guide device is located. If it is necessary to carry out operations, first turn off the heater until all components are completely cooled, and wear protective gloves if necessary.
- Turn off the heater before any operation on the heater to allow all heat-generating components to cool.
- Do not inhale exhaust gas.
- Use fuel with caution.
- Turn off the engine and heater before and during refueling.
- Avoid open flames when using fuel.
- Do not inhale fuel vapors.
- For vehicles transporting dangerous goods (such as oil tankers), turn off the heater before the vehicle enters hazardous areas (refineries, gas stations, etc.).

In

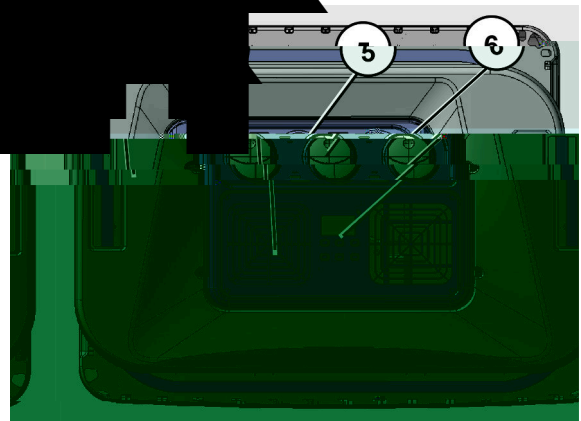
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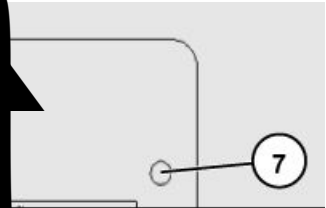
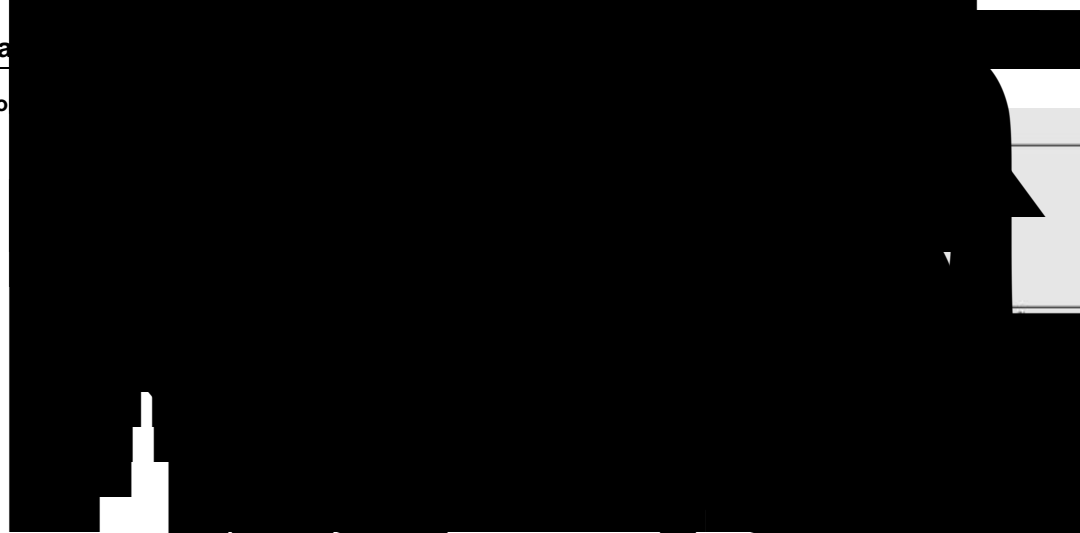
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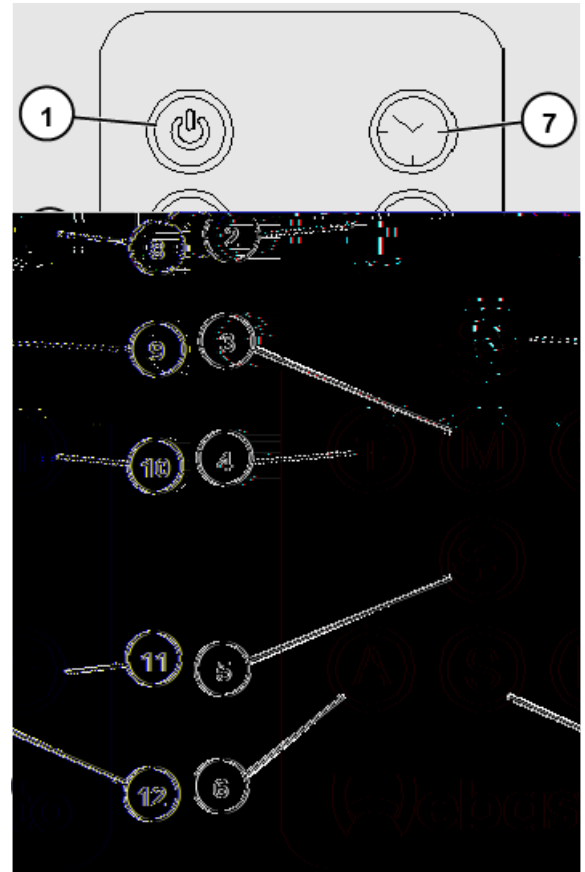
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Parking air conditioning system (Webasto)

Re





Comm



Parking air

Trouble Code	

device be added without permission. It may
operation and affect the safe operation of A/C.



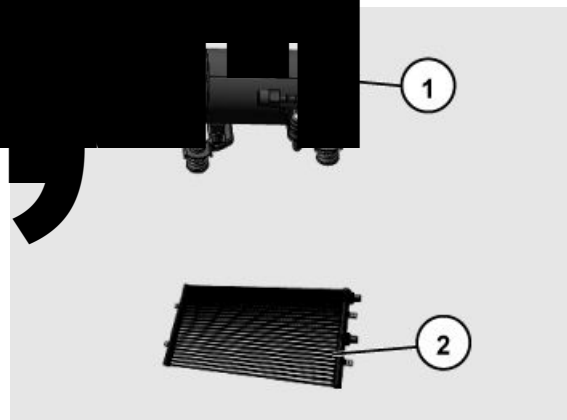
CAUTION!

- To ensure a better user experience, please use the original car A/C to quickly cool down before using the parking A/C when parking. A/C is only for parking use, and the company is not responsible for any damage to A/C or vehicle caused by improper use.
- To ensure better comfort, try to park the vehicle in the shade to avoid direct sunlight.
- To protect your battery, use the original A/C while driving.
- Improper installation or repair of the overhead parking A/C may lead to adverse consequences, which may cause damage to vehicle components. Installation and repair of roof-mounted parking A/C requires completion of the relevant training courses of our company, and the necessary technical documentation, professional tools, and specialized equipment. Only original parts are allowed to be used.
- If you have not completed the relevant training of our company, have not mastered the necessary skills, and do not have the correct technical documentation, tools, and equipment for installation and repair, then never attempt to install or repair a roof-mounted parking A/C system. Be sure to follow all installation instructions and pay attention to all warnings.
- Refrigerant R134a shall comply with GB/T 18826-2016. Refrigeration oil RL68H shall comply with ASTM test standards.
- If external charging devices are added without permission, it may cause voltage fluctuations and affect the safe operation of A/C.

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Park

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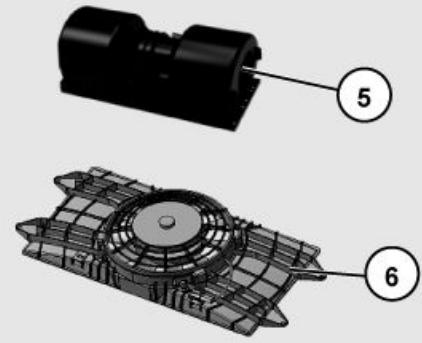


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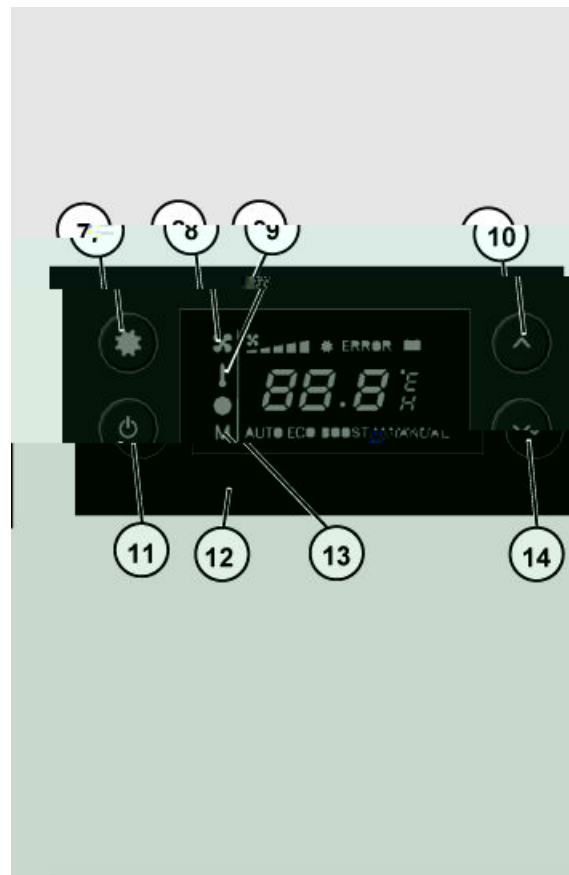
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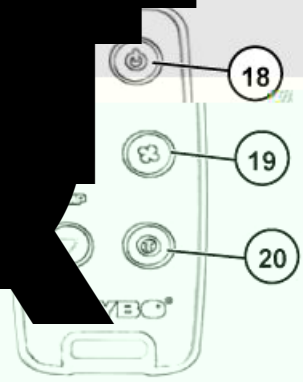
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Setting



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If external charging devices are added without permission, it may cause voltage fluctuations and affect the safe operation of



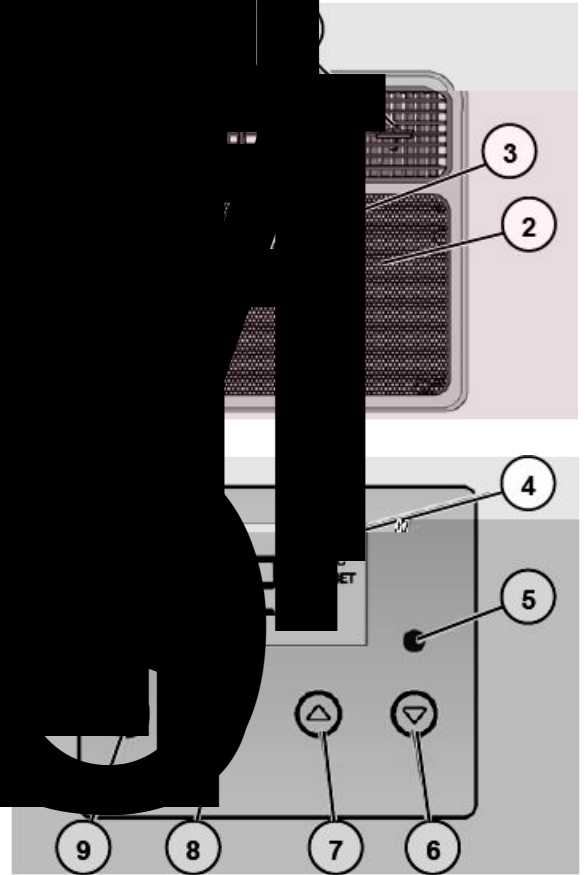
CAUTION

- In order to protect your battery, it is recommended to use the original A/C to reduce the cab temperature before turning on the parking A/C.
- To ensure better comfort, try to park the vehicle in the shade to avoid direct sunlight.
- To protect your battery, use the original A/C while driving.
- If external charging devices are added without permission, it may cause voltage fluctuations and affect the safe operation of A/C.

Part

Con

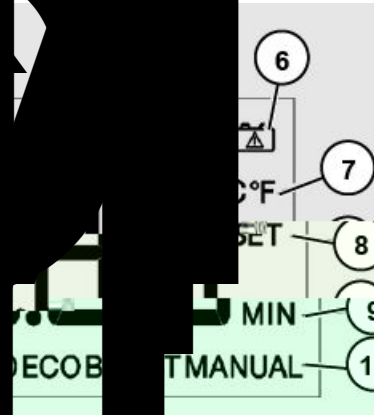
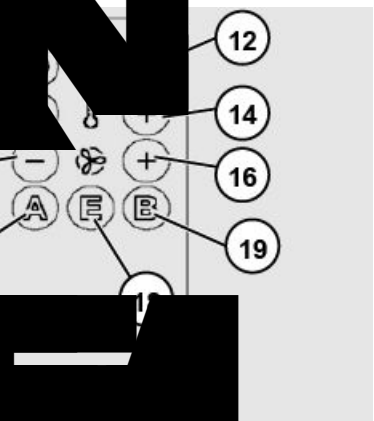
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Park

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Parking system (Dometic)

Par

Instr

Tech



CAUTION!

- This device can help lower the cabin temperature to a certain degree. The actual cooling temperature is jointly influenced by the vehicle model, ambient temperature, and the cooling capacity of your device.
- The system is equipped with a battery monitor. If the system remains operational after the engine is switched off, it will automatically shut down when the power supply voltage drops below the preset level.

Startu

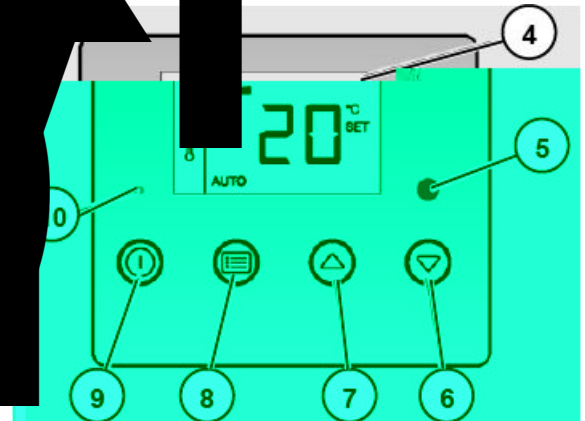


Standby



CAUTION

- When A/C is set to Boost mode and then switched to Standby mode, it will operate in Auto mode the next time it is powered on.
- After switching to Standby mode, the scheduled shutdown function will be disabled.
- To conserve power, the system will automatically shut down the power supply after 12 hours in Standby mode.



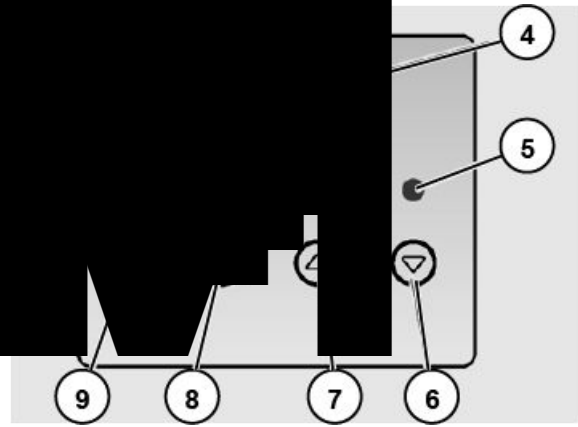
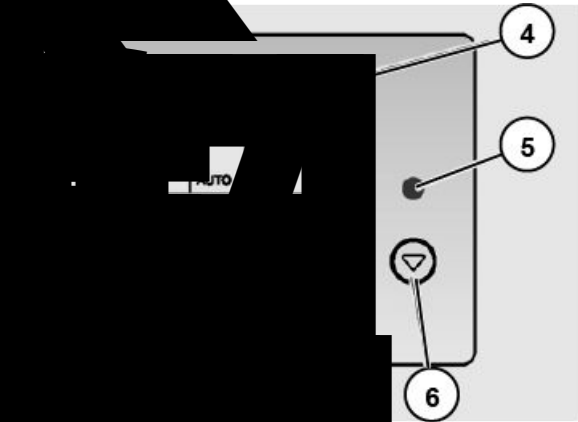
Park

Power



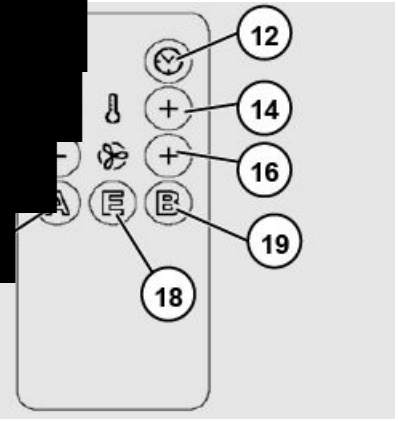
Mode

Control



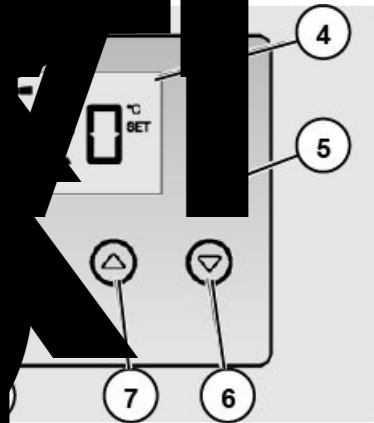
A/C system (Dometic)

Rem



Part

Time

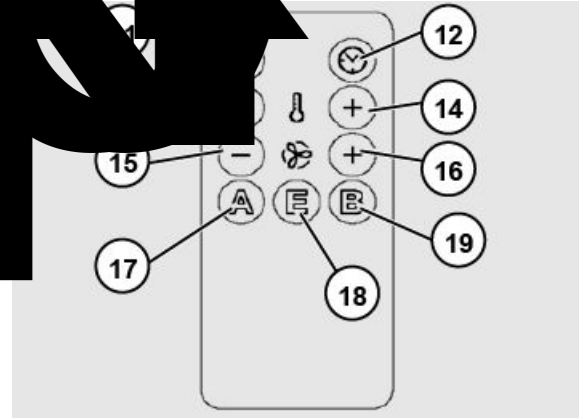


Cancel



CAUTION!

When starting the vehicle or powering on multiple high-draw devices simultaneously, the screen may display the message "LO."



Part C system

Component

Display warning	
	

Cont



CAUTION!

- Beware of damage.
- Do not use a high-pressure washer to clean the A/C.
- Do not use sharp objects or cleaning agents, as these may damage the A/C.
- For cleaning, use water and a mild detergent. Do not use gasoline, diesel or solvents.
- Regularly clean the bottom-mounted A/C housing and air distribution box with a damp cloth.
- Regularly remove leaves and debris from the A/C ventilation grille. Take care during this process to avoid damaging the A/C grille.
- Regularly clean the remote control with a slightly damp cloth. It is recommended to use a glass cleaning cloth to wipe the display.

P

Re





CAUTION!

- Only automatic vehicle washers may be used to clean the A/C.
- Turn off the A/C power supply before tilting the cab for vehicle maintenance.
- Before using automatic vehicle washers or similar equipment to clean the vehicle body, turn off the A/C power supply.
- Do not use high-pressure water jets to clean the equipment, to avoid damaging the unit.

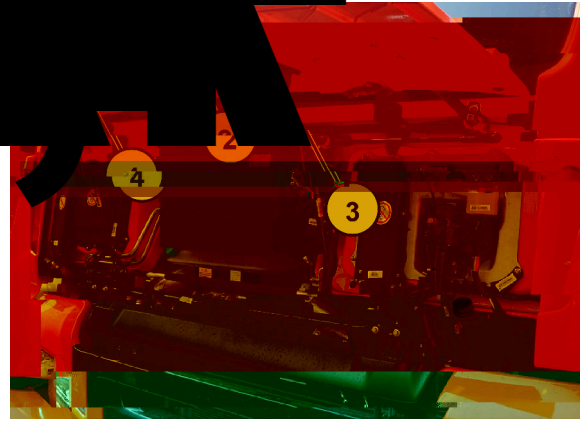
Open

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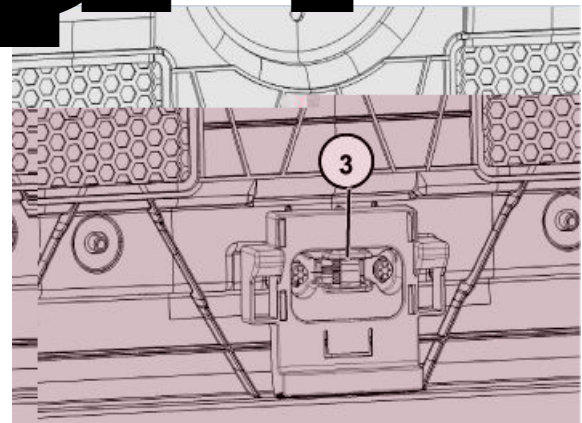


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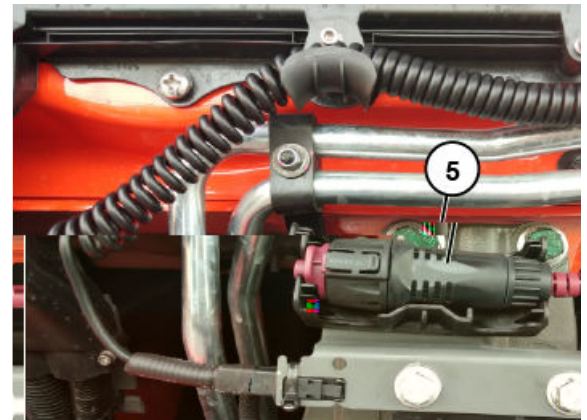
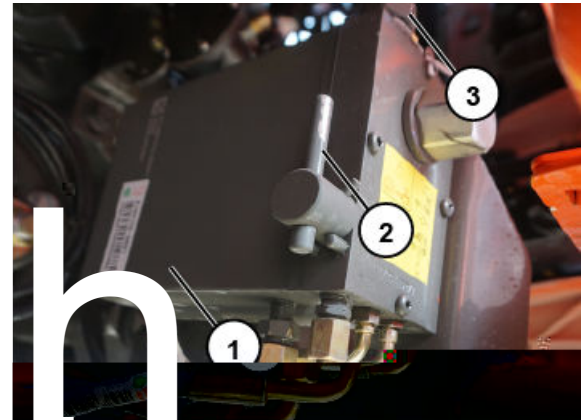
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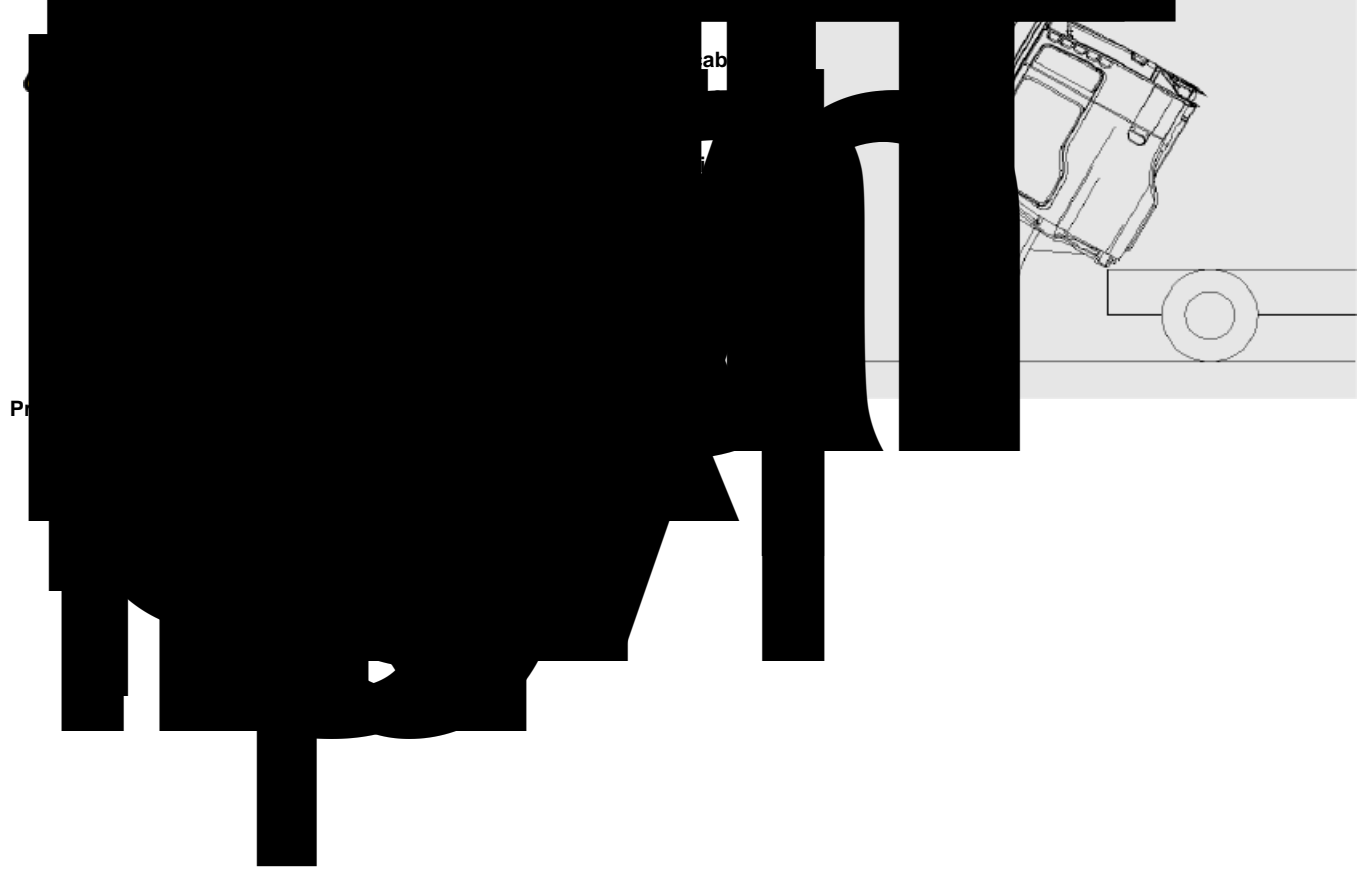
Cab tilting operation

Cab ti
Cab ti



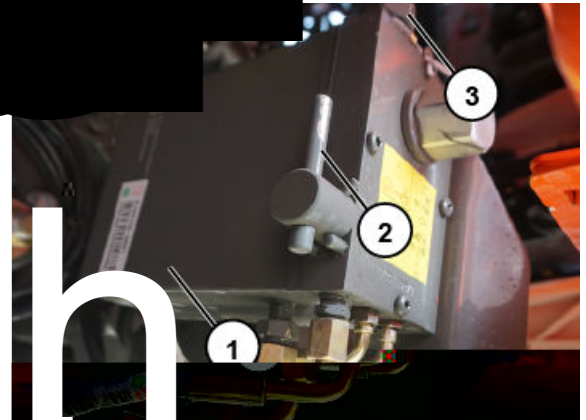
Cab tilting operation

Cab tilti



Cab tilting operation

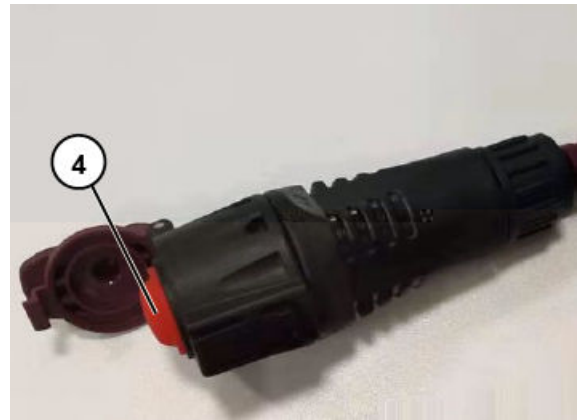
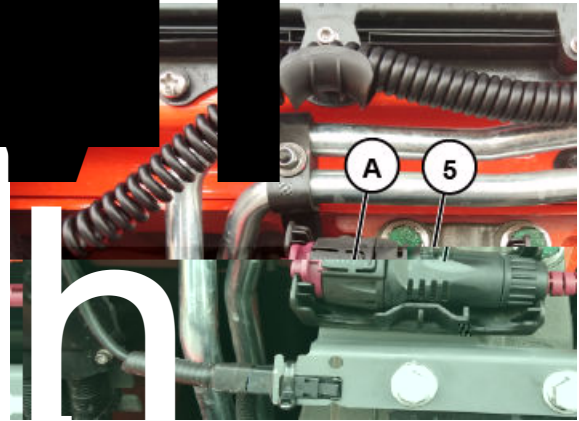
Cab t



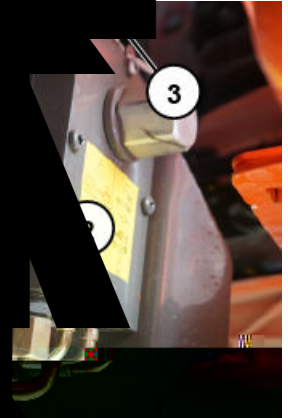
Cab

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Passive start (PEPS)

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Power conversion



Stop

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Key r

Low



CAUTION!

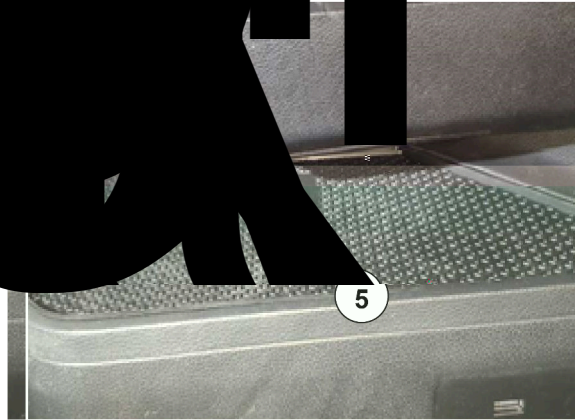
- The driver must carry the remote key with him/her and ensure that the remote key battery is not low.
- The driver must ensure that the remote key is in the cab before powering on the vehicle and starting the engine.
- The system fault information must be read through the OBD DLC.

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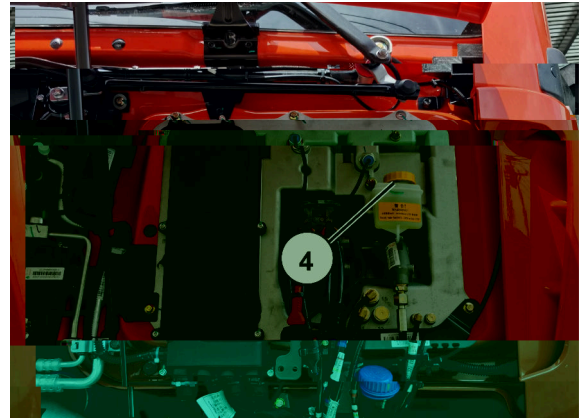
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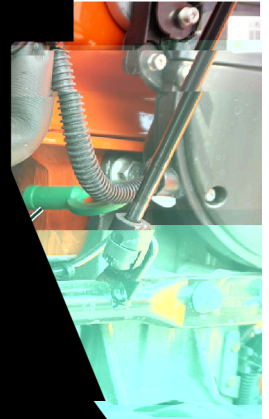
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Engin



WARNING!

Do not allow oil level to exceed the maximum mark.

Adding too much oil will damage the engine!

Inspection of engine oil

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Fill engine

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- Only c
- Do no



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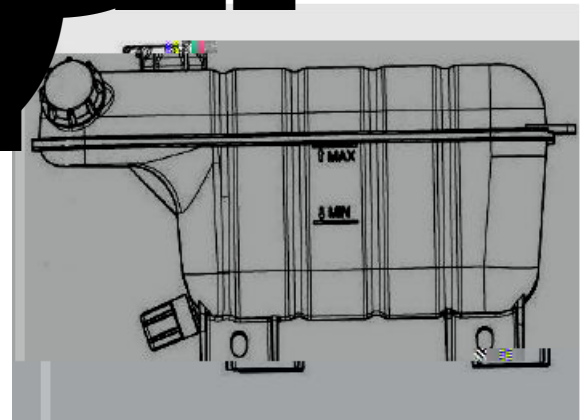
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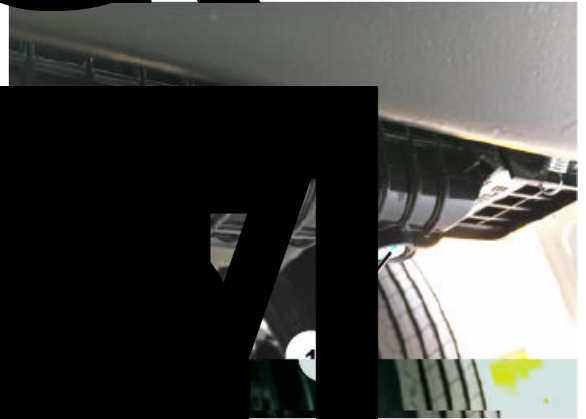
Add



CAUTION

If the pressure cap or fill cap is found to be damaged, they should be replaced as soon as possible; the vehicle should have a new pressure cap and a new filler cap replaced every 500,000 km or every 3 years (whichever comes first).





Drai

Insp

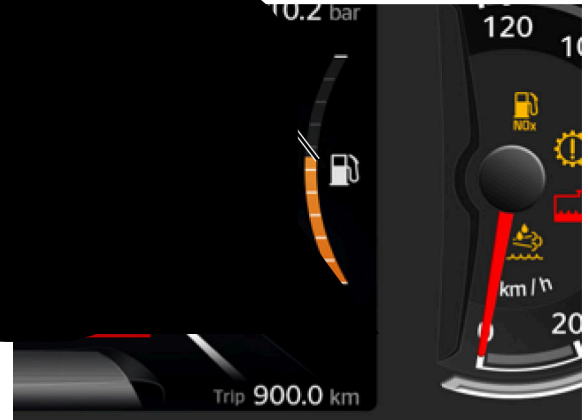
Level



Fuel system inspection

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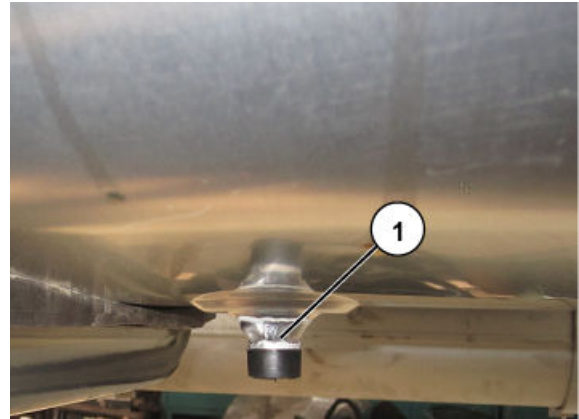
Check



CAUTION!

- The refueling quantity shall not exceed 95% of the fuel tank capacity to prevent the fuel from overflowing after expansion due to heating.
- Do not use up the fuel in the fuel tank. Otherwise, the fuel system needs to be exhausted (see "Fuel system").

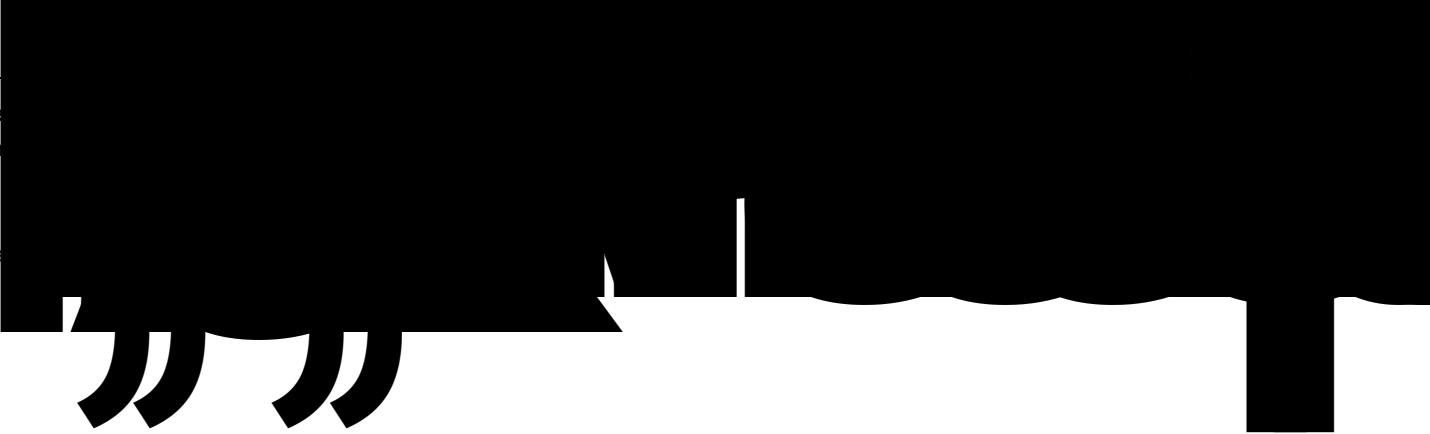
Check the following items every six months before starting the engine:
Oil tank drainage



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Tire p



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otherwise it will affect the driving

y, operability and service life of the

nick

the pressure of the tire keeps decreasing,

check the tire for embedded foreign matters and

check whether there is air leakage at the hub and

valve.

–The tire may become hot when the vehicle is

running, and the tire pressure will rise, and it is

not allowed to deflate the tire at this time. The

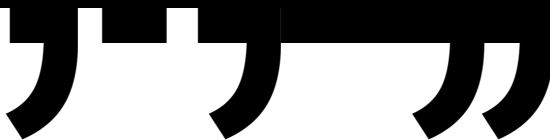
pressure of the tire will change with the air

temperature, at a rate of about 0.2 bar per 10 .

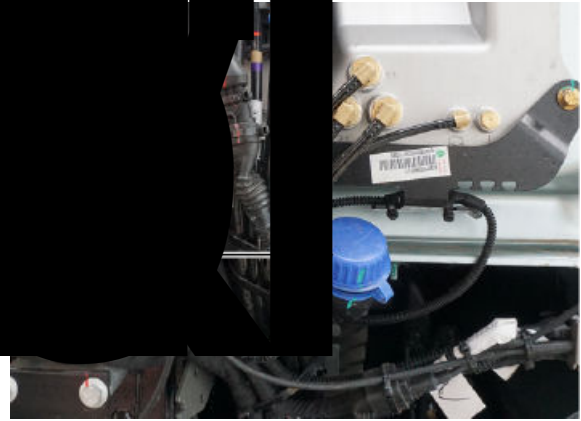
In winter, be particularly careful when inspecting

the tire indoors.

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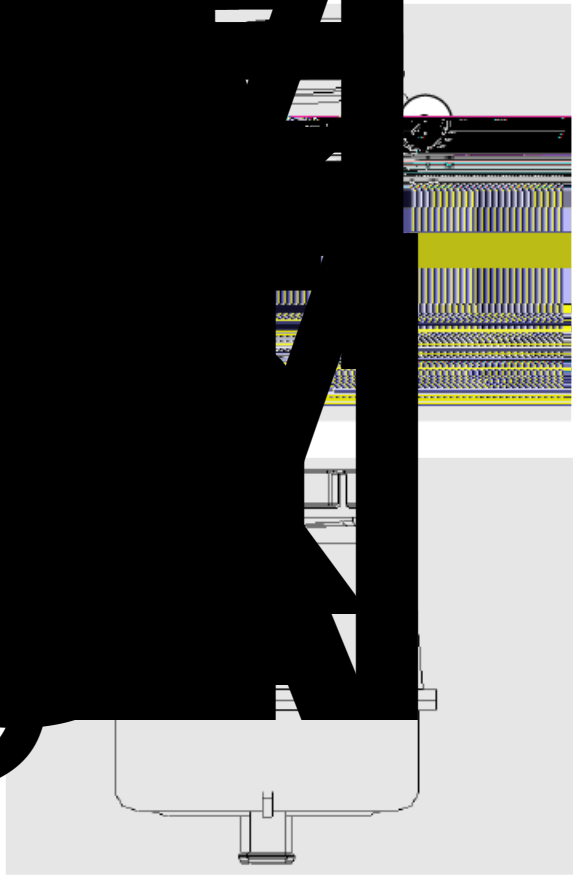


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Steel

Steel

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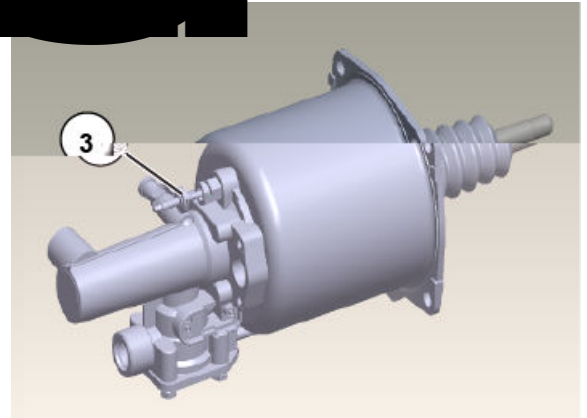
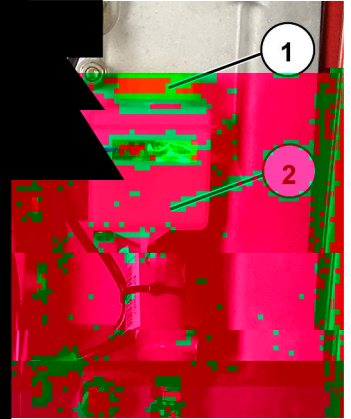


Inspection of clutch system

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WARNING!

If the oil level in the tank drops below the MIN mark, the clutch control device will not function properly.

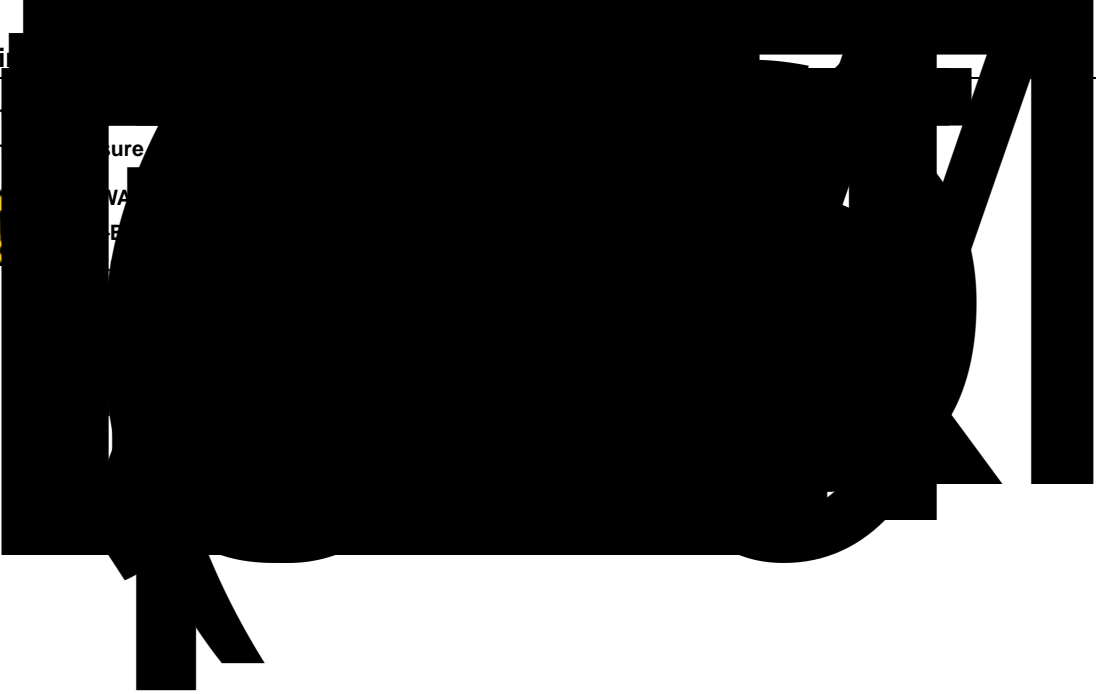
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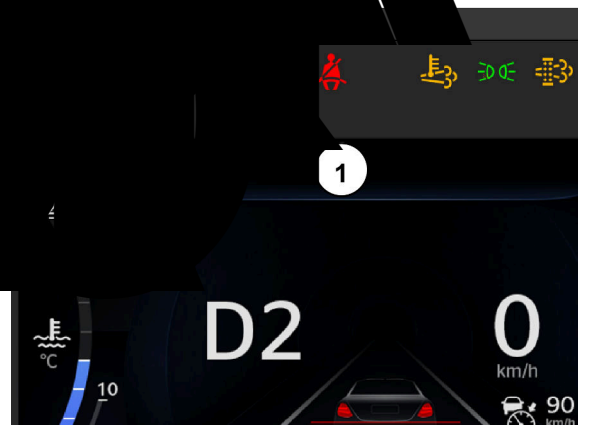
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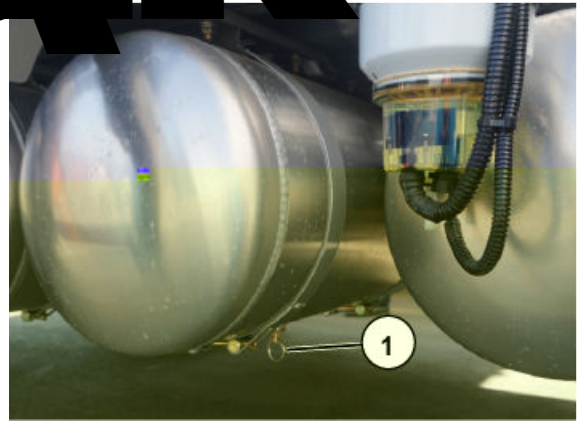
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Inspection of steering system

Inspection of steering clearance (every day)

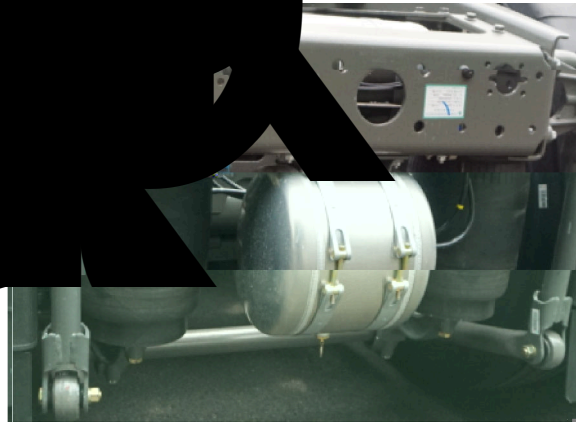


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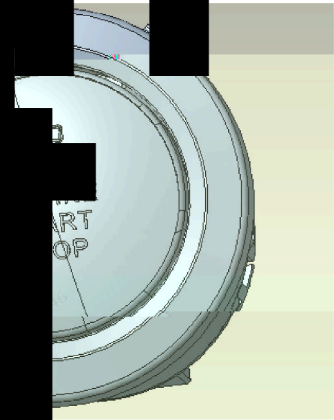




Step 1

Step 2

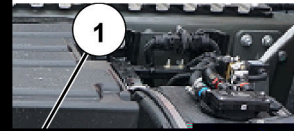
Step 3



Step 4

Step 5

Step 6





WARNING!

- Avoid starting the engine unnecessarily to protect the battery.
- The remote key should be taken with you when leaving the vehicle (even if for a short period of time).



WARNING!

- If the vehicle is to be parked for a long time or during maintenance of the electrical system, the



Release the steering wheel.

Turn the key to "ON (II)" position.

Sta

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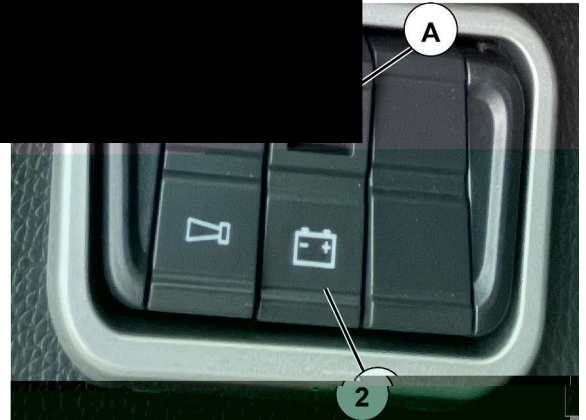


Start the engine

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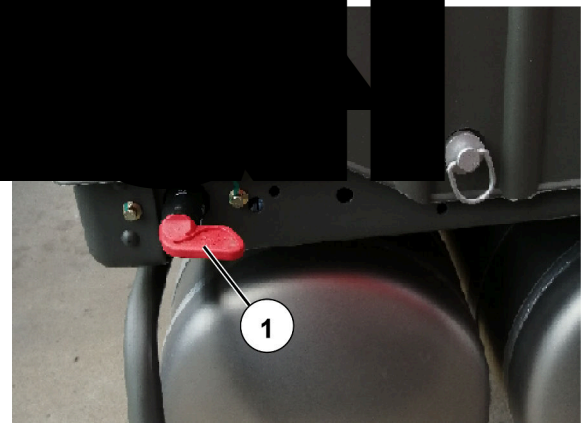


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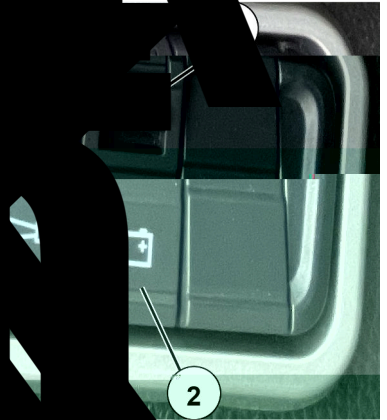
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...n the engine.

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Loc



WARNING
Never lock the steering wheel during driving.

Clu

Clu



Shift

Gear

Shift



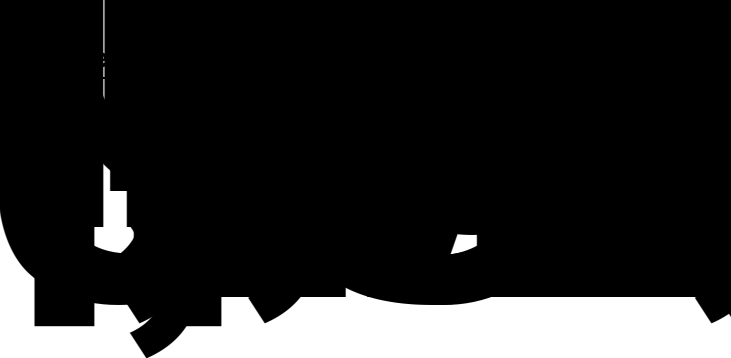
WARNING

When shifting gears, be familiar with the driving range of each speed to avoid shifting into a gear that is not suitable for the vehicle speed.

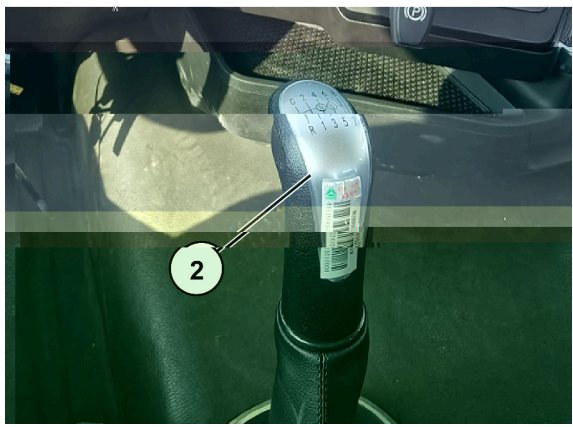
- When the vehicle is driving downhill, it can be shifted into a lower gear that matches the vehicle speed, and make full use of engine braking, but attention shall be paid to avoiding engine overspeed.
- The reverse gear can be engaged only when the vehicle is stationary and the engine is at idle speed.
- The parking brake can be released only when the air pressure rises to the specified value.
- When the vehicle speed is greater than 25 km/h, it is strictly prohibited to shift from the high gear area to the low gear area.

Shi

Syn



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Shifting operation (without synchronizer)

Shifting operation (without synchronizer)

CAUTION

—Vehicles

—Lo

—highest possible



WARNING!

gears, be familiar with the driving range of each speed to avoid shifting into a gear for the vehicle speed.

When the vehicle is driving downhill, it can be in a lower gear that matches the vehicle speed. Make full use of engine braking, but care shall be paid to avoiding engine damage.

Reverse gear can be engaged only when the vehicle is stationary and the engine is at idle speed.

Clutching brake can be released only when the engine pressure rises to the specified value.

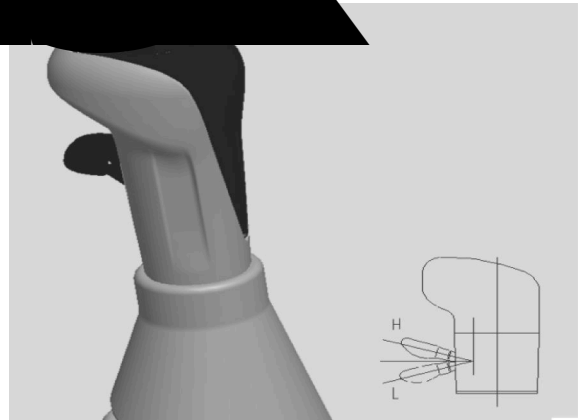
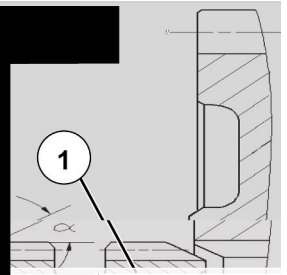
When the vehicle speed is greater than 25 km/h, it is prohibited to shift from the high gear to the low gear area.

Shif

S

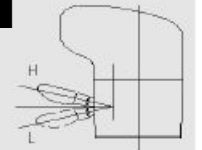
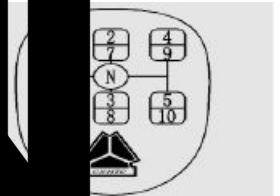
Tr

Shif



High/low gear switching

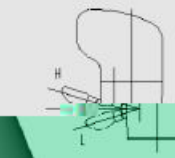
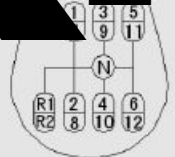
High/low gear
Shift between



H

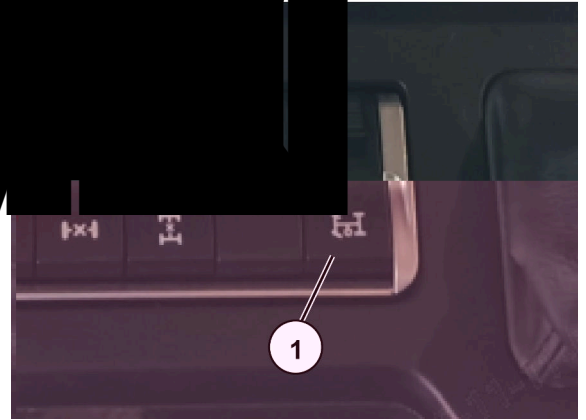
Sh

Shif



take-off) operation

PT
Op



Pre

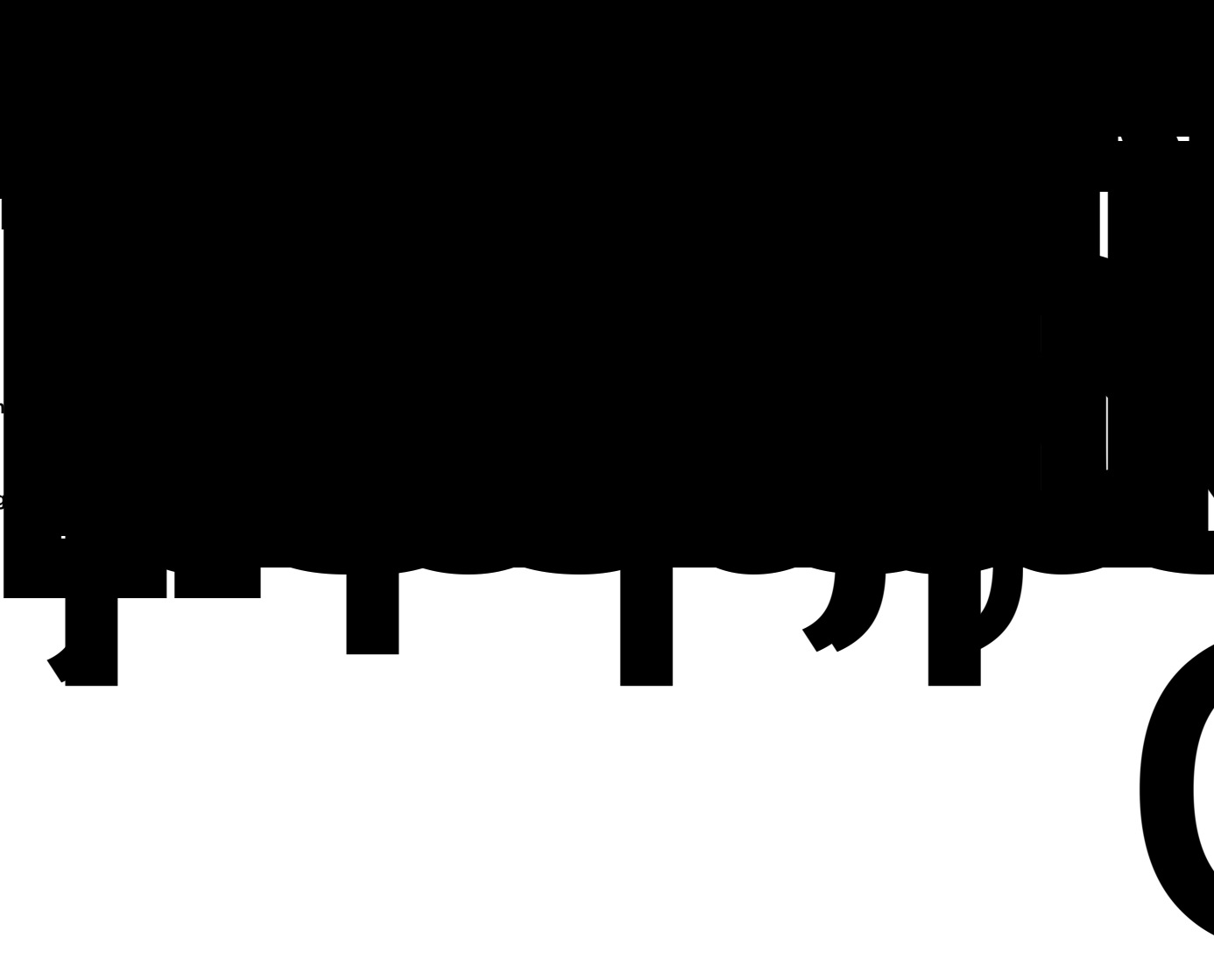
Pre

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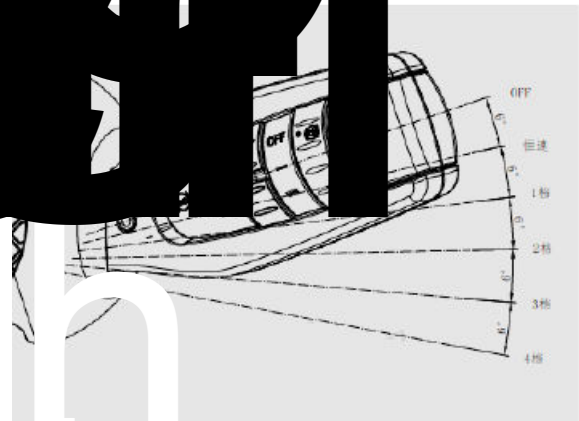
Working

Towing



Gear
A/M f

Handle up
E/P – knob switch for the shifting
(P), and Eco mode (E):



Normal

Full-

Spec



At very low speeds, when starting at hill start, press the accelerator pedal and release the handbrake. When the clutch is at the half-linkage point, release the accelerator during the start. The vehicle will start keeping a small amount of throttle for a long time. This will make the half-linkage point, affecting the life of the engine. When starting the engine, stop the engine efficiently before driving, only after the engine water temperature is above 50°C.

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Ups



Gear shifting operation

Neut



Stop

When the vehicle is shut down directly in the gear, the transmission will automatically engage the neutral gear. However, if the air pressure is not sufficient at this moment, the transmission will not be able to automatically engage the neutral gear, which will make it difficult to start the engine next time. To ensure the safety of the engine, be sure to engage the neutral gear before shutting down the engine. If the hand brake is not pulled down, the vehicle will move and cause dangers. Therefore, be sure to pull down the hand brake before shutting down the engine.

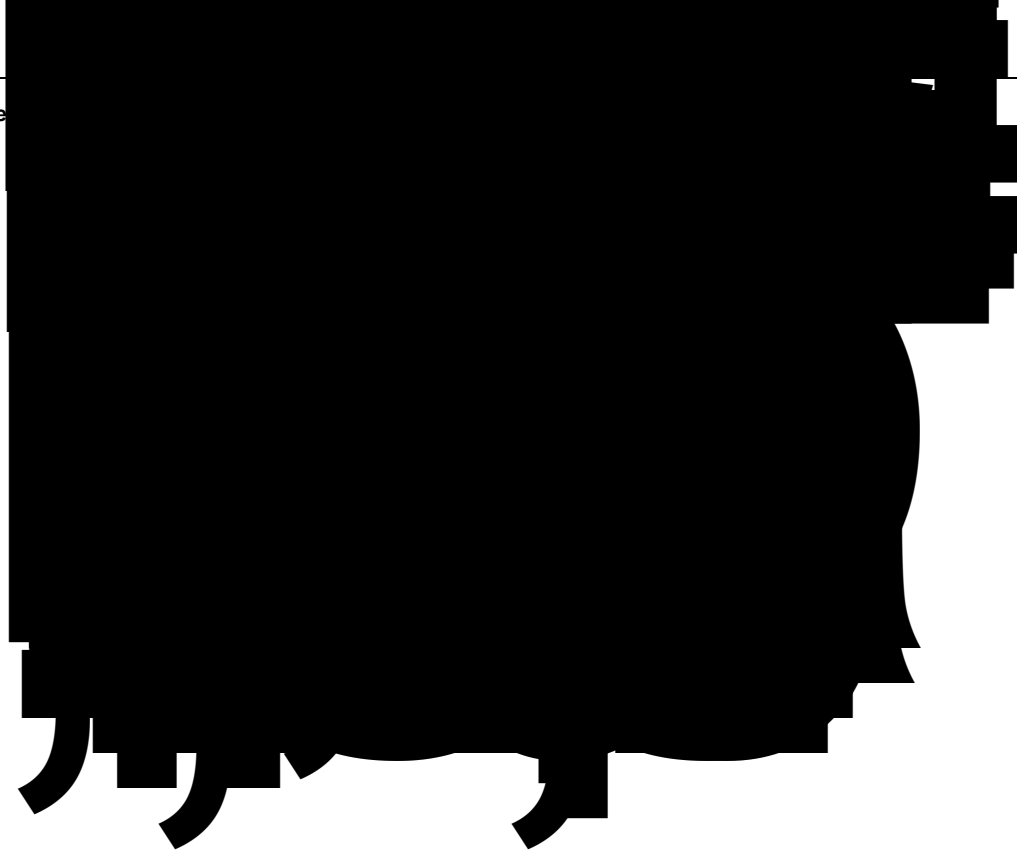
The high idle start modes improve the starting performance by increasing the engine speed to medium and high speed in advance before engaging the clutch. They shall be used cautiously to avoid affecting the life of the clutch.

–The crawl control mode is suitable for the working condition in which the vehicle is moving at a low speed in site.

Re

Gear shifting operation

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Op

Op

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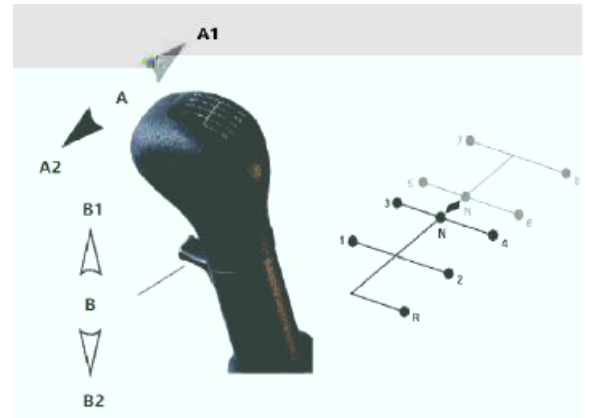
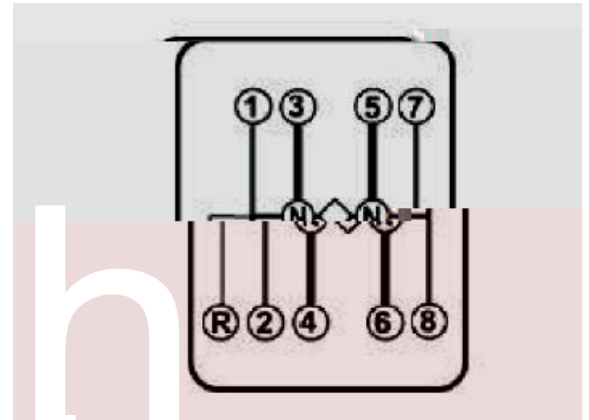
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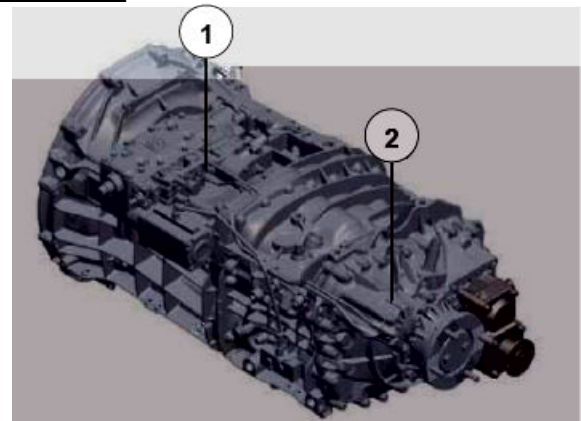
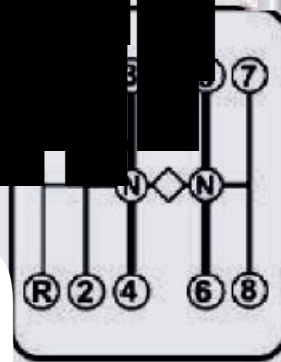


Operation of ZF manual 16-speed transmission

Ge

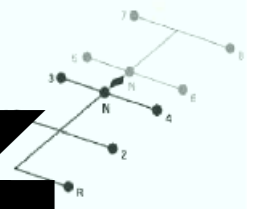


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Do



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B1



St

Clutch

Operation of ZF manual 16-speed transmission



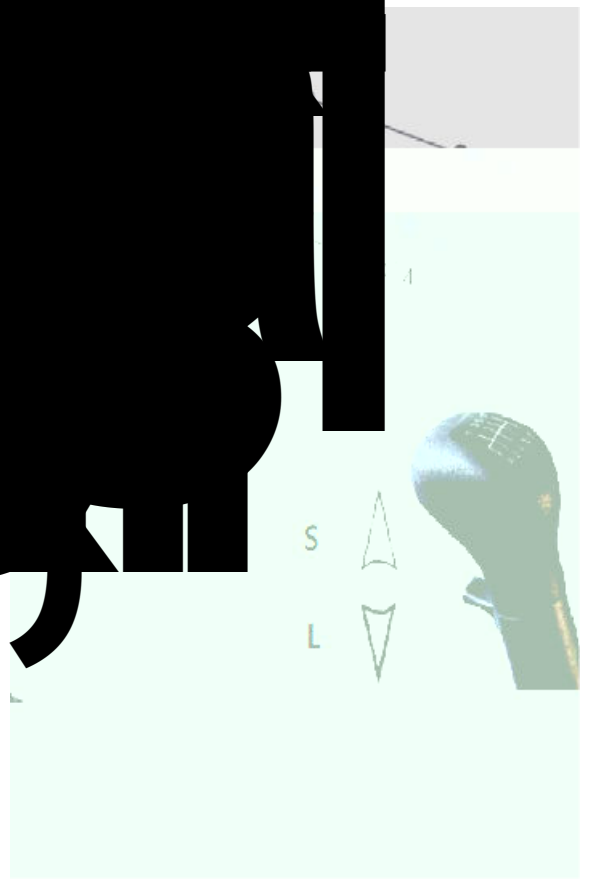
WARNING!

When the clutch is not fully disengaged, gear shifting will cause wear of the transmission synchronizer.

6 speed transmission

Ge

Tr





WARNING!

In order to protect the transmission synchronizer, make sure that the clutch is completely disengaged during gear shifting.

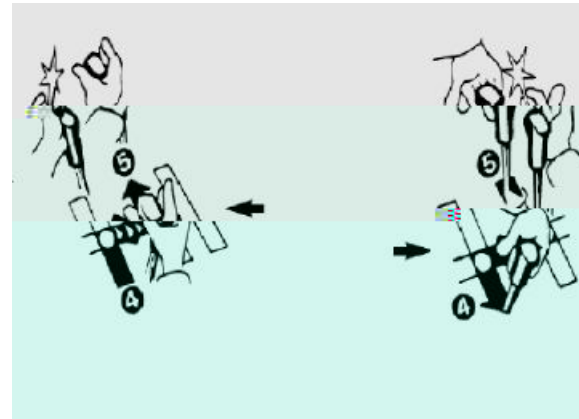
–When upshifting or downshifting, do not exceed two gear levels at most (for example, from Gear 4 to 6th gear), otherwise the synchronizer will be worn.

–In order to avoid damage to the transmission and engine, downshift can only be performed after deceleration and reaching the maximum speed allowed by the target gear.

–During the use of the PTO, do not shift gears (including half-gear switching), otherwise the synchronizer will be worn. If you need to adjust the vehicle speed by shifting gears, be sure to disconnect the PTO first.

–Operate the shift lever quickly and gently (do not apply too much force), especially in the cold state. It is recommended to control the shift lever with an open palm.

–When engaging a gear, hold the shift lever to overcome the gearshift resistance until synchronization is completed and the gearshift is realized.



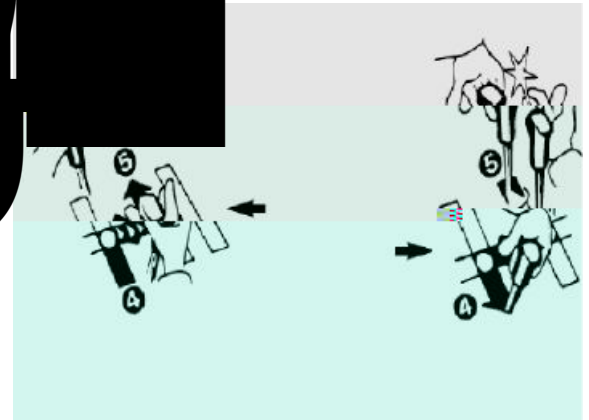
Double



CAUTION!
Gear shifting requires greater effort when the vehicle is cold. If transitioning from the neutral position of Gears 5/6 to that of Gears 3/4, the high/low range auxiliary gearbox may not engage the low range. To resolve this, reduce the vehicle speed before selecting the appropriate gear.



WARNING!
–When the vehicle speed is greater than 28 km/h, switching between high and low auxiliary gearbox positions is not allowed. Otherwise, the synchronizer of the high/low range auxiliary gearbox will be worn.
–In the driving mode, other high and low gears can be preselected only before the gearshift is about to occur. If other high and low gears are selected too early, the actual gear engaged may not be what you need in traffic conditions where rapid gear shifting is required, and the synchronizer may also be worn.



Shift between high and low gears



WARNING!

- Do not shift down to any gear in advance unless the current vehicle speed is within the range allowed by the gear you want to engage.
- The clutch should be pressed to the bottom during the next gear shift.
- When the transmission is shifted from the low gear zone to

Gear



Power

Bondi



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If the above towing conditions is not met, the drive shaft rear axle connecting
the axle shaft to prevent
damage.

maximum towing speed specified in the
specifications shall be observed.

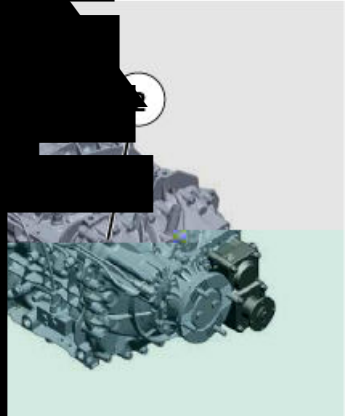
Trac



Trai

al 16-speed transmission

Emer



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Operat

Low tem

Starting

Transmiss	ur		
Model an	de	ric	
Precat	for	g	th
Restrict			

ZF automatic 12-gear transmission operation



Kn





WARNING!

Do not leave the vehicle when the engine is running and the gear has been engaged.

–When the engine is inoperative (e.g., no fuel), neither the power steering system nor the engine brake can work, and the gear cannot be engaged.

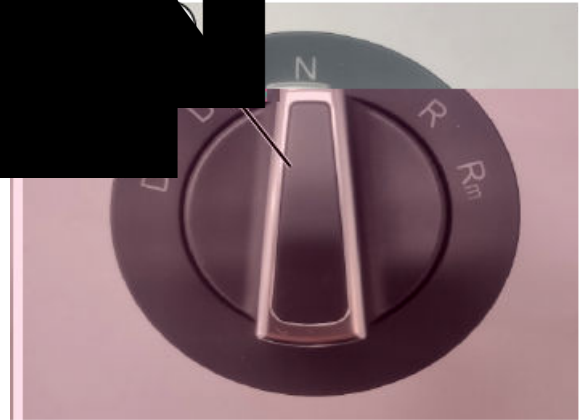
–Do not release the parking brake during engine start to prevent the wheels from turning.

S



CAUTION!

The gear cannot be shifted when the engine stops. You can shift into N gear.



ZF

Star



Starting on a hill



WARNING!

–When starting on a slope, the wheels may roll backwards.

–The parking brake can only be released after the gear is engaged and only after the accelerator pedal is pressed.



ZF

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Switching the operating mode from Auto to Manual



Gear s



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Transmission is not placed in the N gear
turned off, it will shift
any after the "ignition switch is turned

... engine depends on the engine
engine start permission
... (CAN bus).

... stationary, please
... the brake pedal or apply the

... turning and the gear is
... stationary, depress
... to make the vehicle move!

... idle speed,
... in N gear and apply
... park brake

When driving on a smooth road, operating the
parking brake will cause the engine to stall, and
the steering booster will no longer work.

Tu



Trail

Restrictions

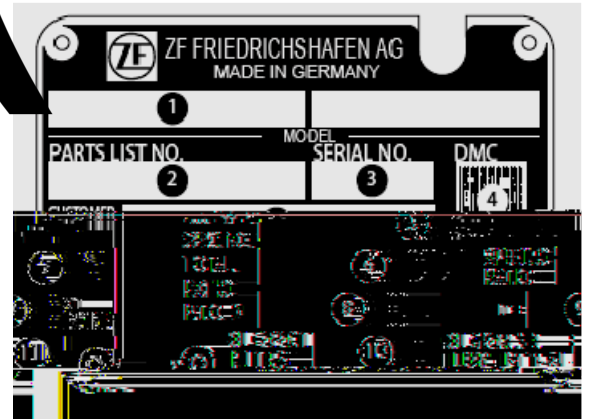
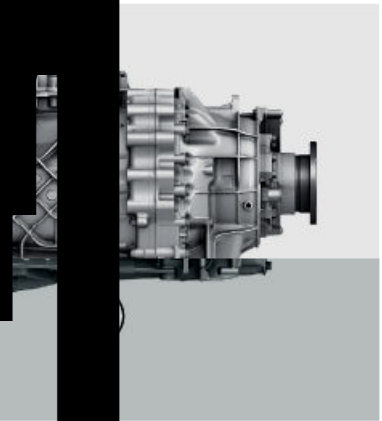
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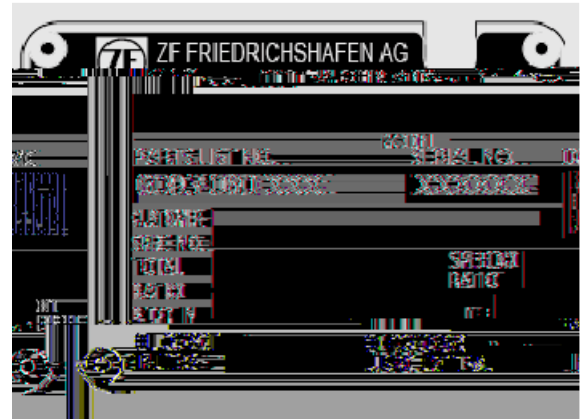


Name
ZF-Tr



ZF aut

ZF-Intar



ECU (



Note: The ZF-Intarder serial number on the ZF-Intarder and EST nameplate must be consistent.

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F

Kn





WARNING!

Do not leave the vehicle when the engine is running and in

–When the engine is non-functional (e.g., without fuel), both the power steering system and the engine brake cannot work and gears cannot be engaged.

–The parking brake must not be released during engine starting to prevent the wheels from turning.

0
s



CAUTION!

When the engine is stopped, shifting gears is not possible, but it can be shifted to neutral gear.



Star

Heart

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WIN
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Opera

Creepin

Property position



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Switc

Switching of operation mode from automatic to manual

Op

Shi



Reversin



Engage t

ation automatic transmission

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UTION
ne t mis s not in neutral before
ill automatically shift after

ss depends on the engine
start permission signal

ne stationary, the brake pedal
be continuously or the
g h applied.

e engine running and in gear when
press the accelerator
e!

h with the engine idling,
n neutral and apply the
g brake.

en driving on both road, operating the
king brake will cause the engine to stall and
e power steering to become inoperative.

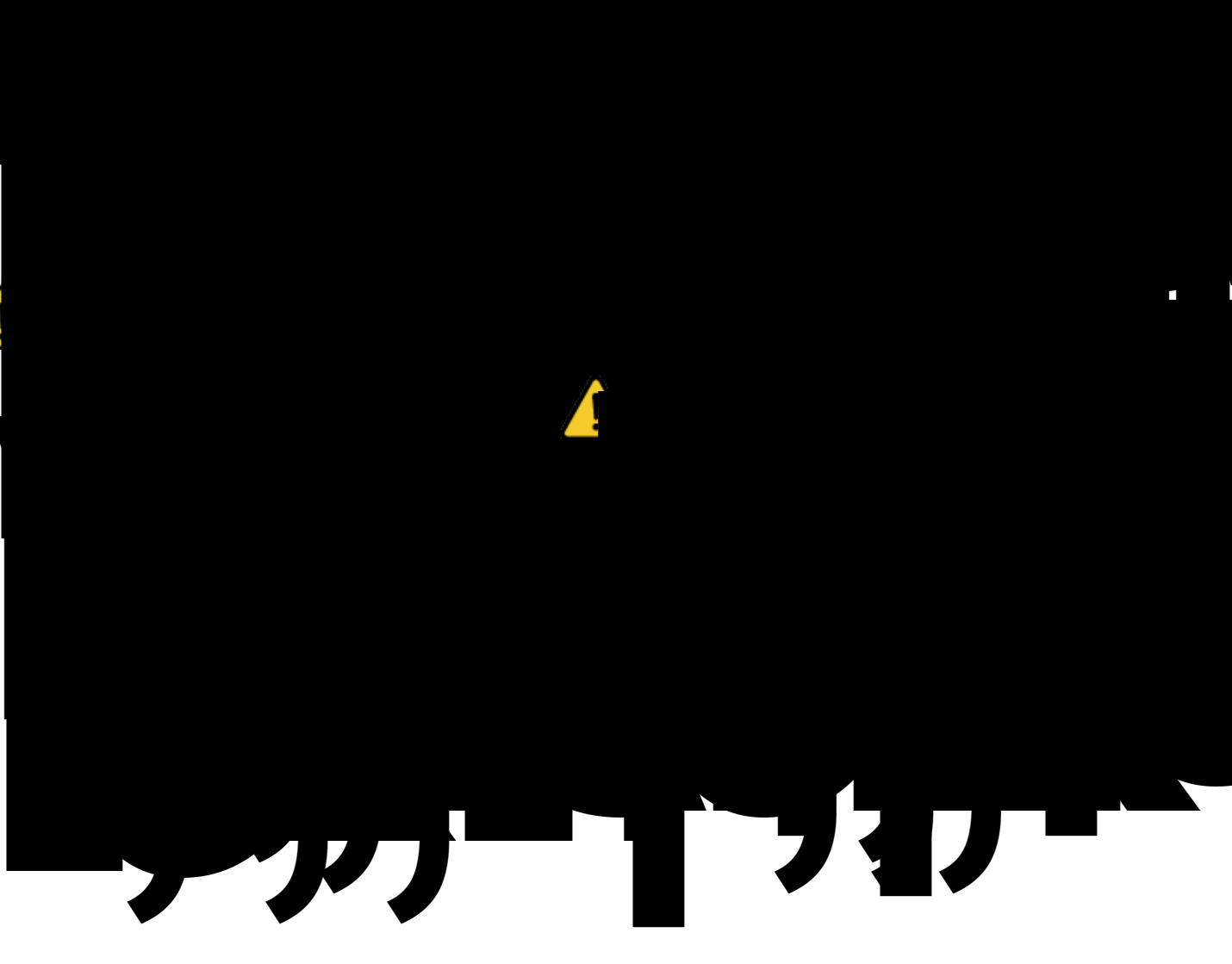
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Op

PT



Use requirements
Operating temperature



|

Op



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WARN

VOITH retarder operation



WARNING!

- Exercise caution when using the retarder on slippery roads. Danger: Vehicle may slip! If the retarder is used, it should be operated step by step, and it must be turned off in poor road conditions.
- When the vehicle is running without a load, use the retarder carefully!
- The retarder is an auxiliary braking device. In emergencies, please use the service brake (foot brake) to decelerate. To stop the vehicle, apply the service brake.
- When the vehicle starts under low temperature conditions, using the retarder for the first time will result in a delayed braking effect. The service brake can be applied if required.
- At low speed, the retarder function has only a weak effect, and if necessary, the service brake shall be applied.

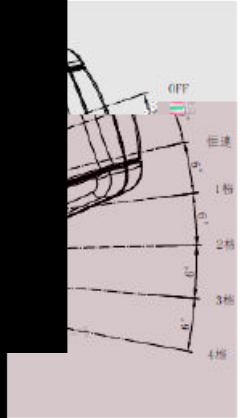
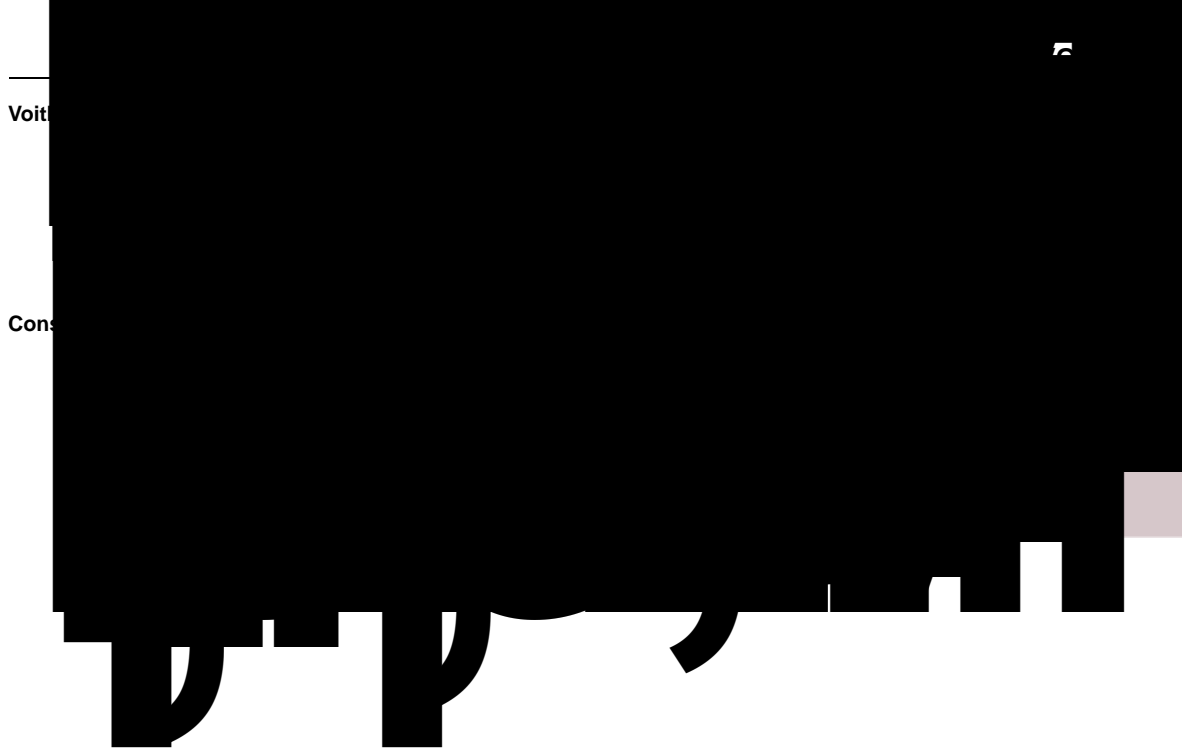


WARNING!

- Never use the retarder when the transmission is in neutral.
- When the ABS works, the retarder function is automatically turned off.
- When the retarder fails, the exhaust brake and service brake shall be used to control the vehicle speed.
- The retarder is an auxiliary braking device and must not replace the parking brake. Always apply the parking brake before exiting the vehicle.
- If the coolant is insufficient, do not start, otherwise the retarder and gearbox may be damaged.

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WAR

ZF retarder operation



WARNING!

- The retarder shall be used cautiously on wet and slippery roads. The vehicle is in danger of slipping! If the retarder is used, it shall be operated level by level, and it shall be turned off in harsh road conditions.
- The retarder shall be used cautiously when the vehicle is running without load!
- The retarder is just an auxiliary brake unit, therefore, please use the service brake (foot brake) to decelerate in emergency. The service brake shall be used to stop the vehicle.
- When the retarder is used for the first time after the vehicle starts at low temperature, the braking effect will be delayed. If needed, the service brake may be used.
- The effect of the retarder function is poor at a low speed. If needed, the service brake shall be used.

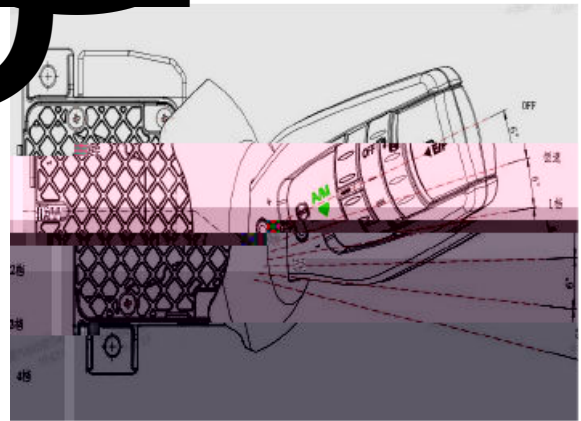
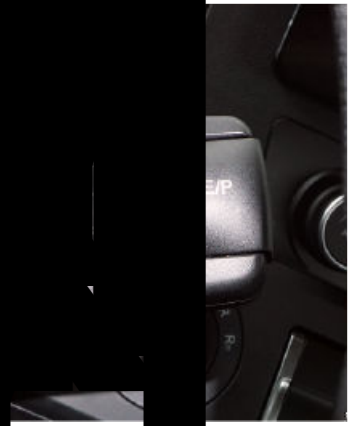
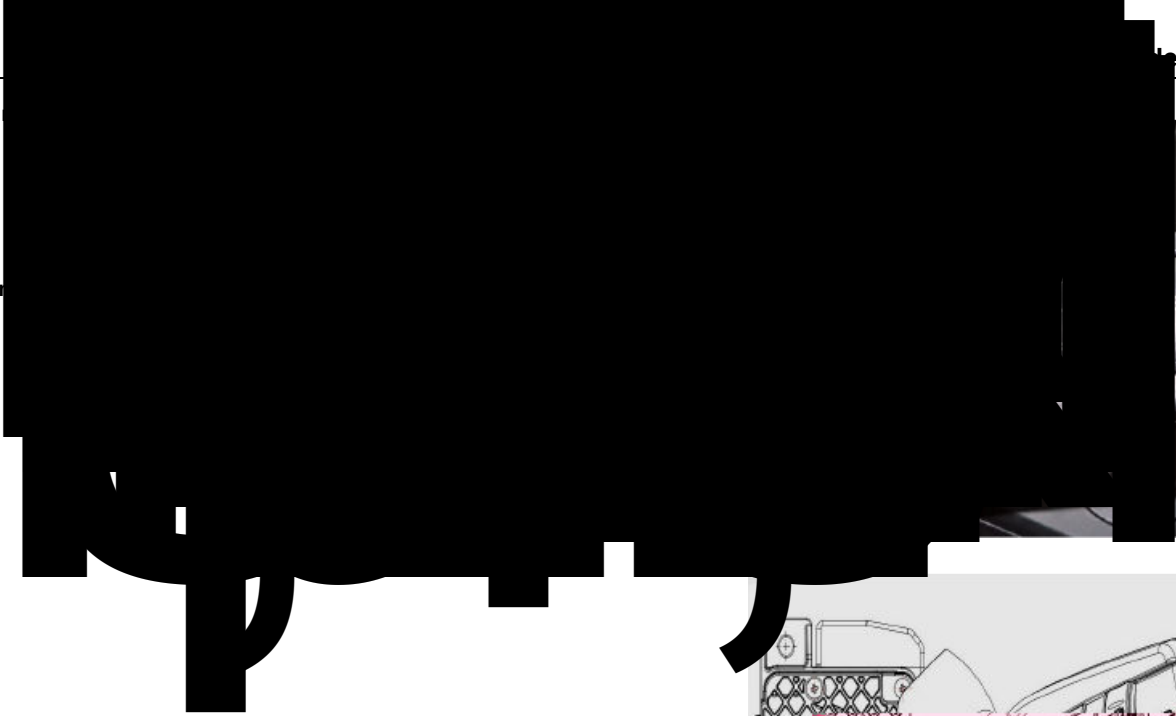


WARNING!

- It is prohibited to use the retarder when the transmission is put in neutral.
- The retarder function is automatically turned off when the ABS is working.
- In the event of a retarder fault, the exhaust gas brake or service brake shall be used to control the driving speed of the vehicle.
- The braking function of the retarder cannot replace the parking brake. Apply parking brake before getting of the vehicle.
- Do not start if the coolant is insufficient, otherwise, this may damage the retarder and gearbox.

ZF

Co



ZF

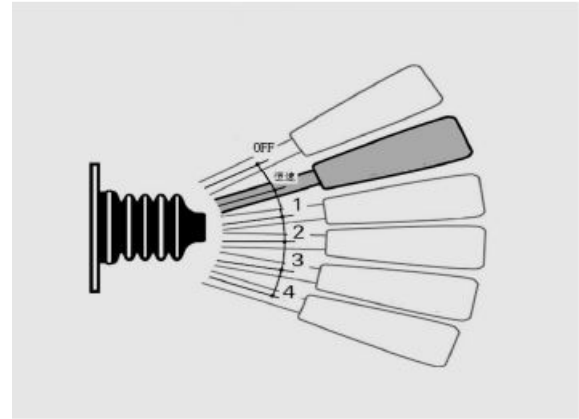
Act

Car



CAUTION

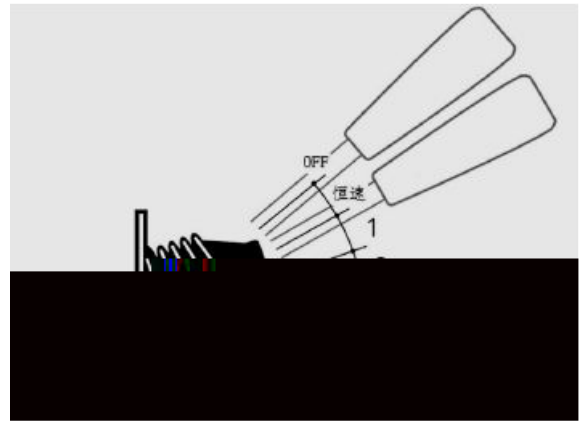
The retarder can be used simultaneously with the engine exhaust brake. If only a small braking force is required, it is recommended to use the hydraulic retarder first.



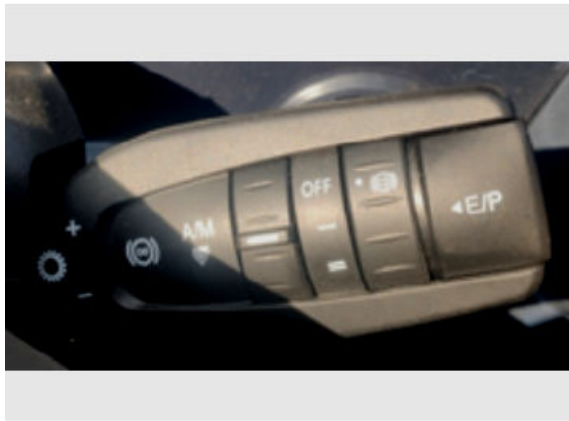
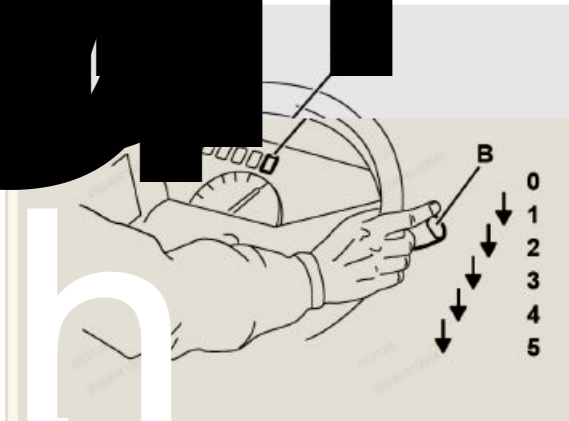
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WARNING!

After using the constant speed mode, remember to turn off the retarder when the vehicle is driving on level ground or uphill.

3



Op

Use

Wa





WARNING!

- Regardless of which working gear the retarder handle is in, the transmission must be in a suitable forward gear (it is not permitted to use the retarder while coasting in neutral). This allows the engine cooling system to dissipate the heat generated by braking (in constant speed mode, the engine speed should not be lower than 1500 rpm; also, take care to prevent engine overspeeding).
- The retarder should be used when appropriate and road conditions are safe. Do not use the retarder when the road surface is covered with snow, ice, or large amounts of water. Using the retarder in these conditions poses a risk of the vehicle pulling to one side during braking. If you notice the vehicle pulling during use, turn off the retarder.
- WARNING: Strictly prohibited to "jump" or skip braking gears on the retarder handle! This is to prevent excessive retarder braking torque, which can cause sudden braking and vehicle pulling.
- Do not use the retarder when the tractor is navigating sharp turns.
- The retarder cannot be used as a parking brake.
- To maximize the retarder's effectiveness and extend its service life, use antifreeze as the engine cooling medium.
- The water wading depth for the retarder must not exceed its bottom part.
- CAUTION: During use and maintenance, it is strictly prohibited to step on or apply impact pressure to the control valve and the heat exchanger assembly.

Different

Differentia

Different



WARNING!

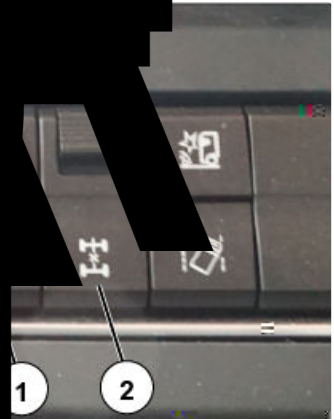
–When the differential lock is in use, the adjustment function of the Anti-Lock Braking System will be delayed for a period of time, and the wheels may be locked for a short time, restraining the steering ability and directional stability of the vehicle.

–When the differential lock is working, there is no differential function between the left and right wheels. In this case, do not drive on curves on a solid ground. When driving to a solid ground, disengage the differential lock immediately.

Differential lock operation

Inter-
Inter-

Disen-



WARNING!

- The differential lock can only be engaged when the vehicle is at a complete stop.
- Never engage the differential lock when the wheels are slipping.
- When the differential lock indicator is illuminated, the vehicle must not turn, and the speed must not exceed 50 km/h.
- Disengage the differential lock immediately upon vehicle entering a paved surface.

Diff

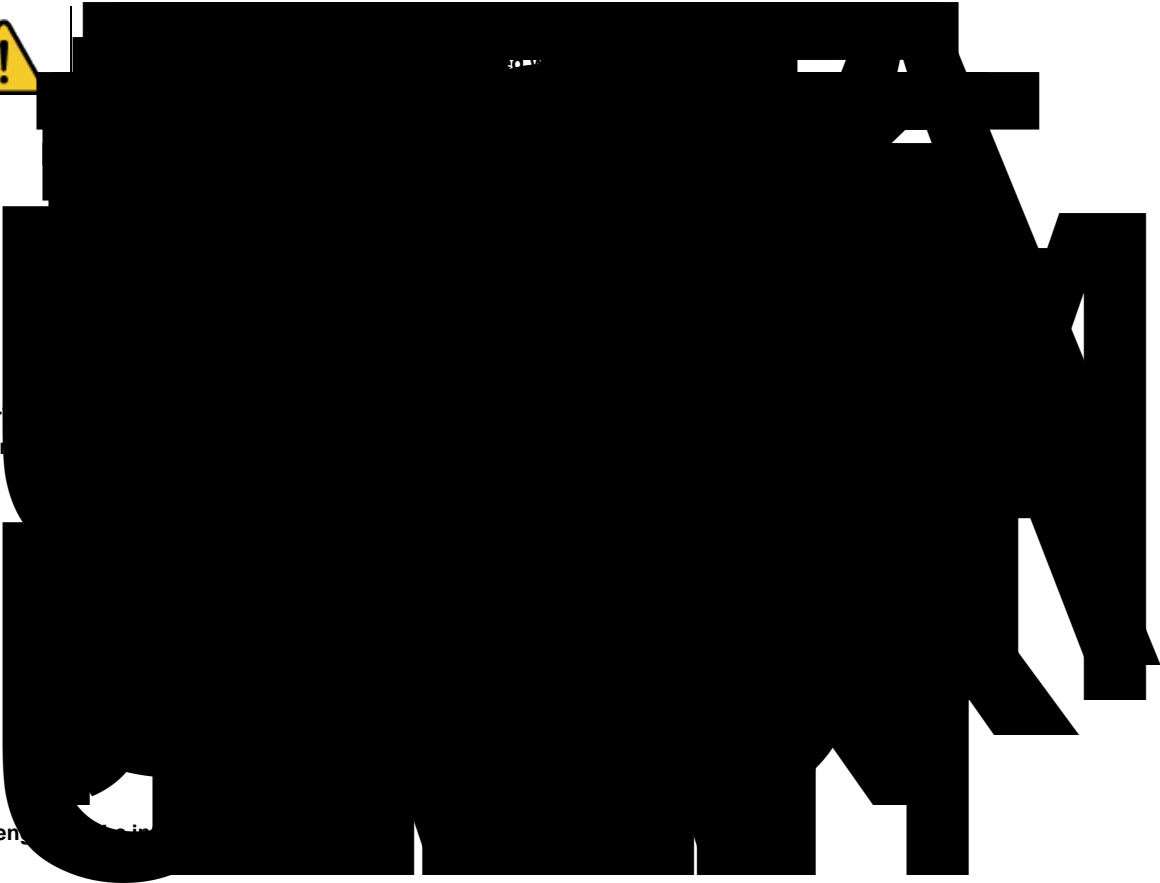
Inter

Inter

Inter-



Disen



Inter-
Inter

Disen



WARNING!

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- Never engage the differential lock when the wheels are slipping.
- When the differential lock indicator is illuminated, the vehicle must not turn, and the speed must not exceed 50 km/h.
- Disengage the differential lock immediately upon vehicle entering a paved surface.

Fun

Air suspension operation

Electronically Controlled Air Suspension (ECAS)

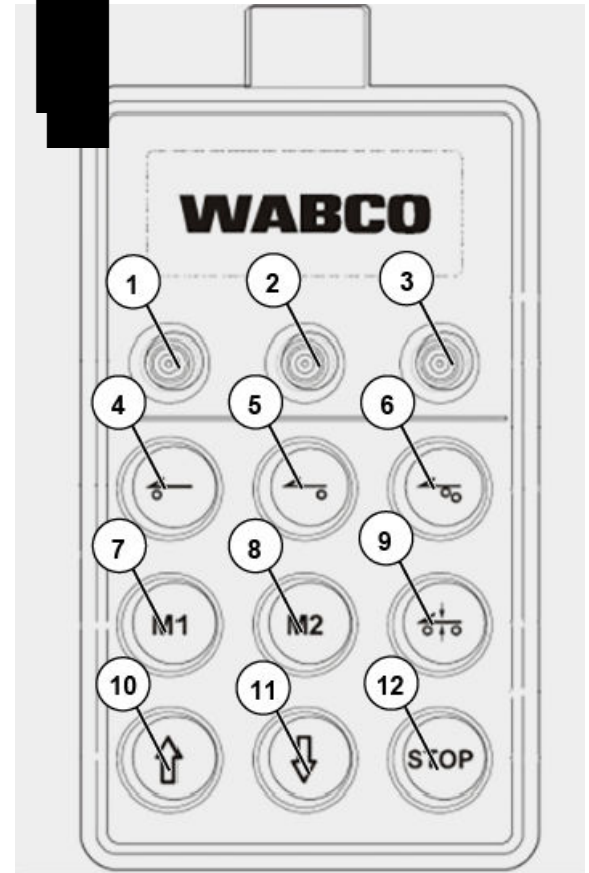


WARNING!

- A frame that has been lowered or raised can pose driving hazards and vehicle wear. Please adjust to a balanced height before starting. If the ECAS fault light on the instrument panel comes on, please contact a professional service station for inspection.
- When the vehicle is raised, ensure there are no obstacles above the vehicle. When the vehicle is lifted, make sure that there are no obstacles above the vehicle.
- Frame bouncing may damage shock absorbers and other components. When performing related risk operations, please first lower the vehicle height; when performing sudden load loading operations, it may impact the airbags and frame. Please first raise the vehicle height; when entering or exiting strong magnetic field areas, be aware that ECAS may be disturbed and not adjust. Please check whether it is at a balanced height before driving.
- Before performing long-term loading/unloading operations, the vehicle shall have good air tightness, and the system pressure shall reach full pressure. Depending on the situation, you can first raise or lower the vehicle height before the operation.
- When the vehicle speed exceeds the set value (30km/h), it is prohibited to use the remote controller and buttons for height adjustment actions. It is recommended to use it when the vehicle is stationary.
- After completing special use scenarios, if the vehicle does not automatically reset, please re-power on and off in the case of sufficient vehicle air pressure, press the reset button; or manually loosen the connector to release the air and lower the vehicle height.
- ECAS system performs best when the vehicle air pressure is sufficient and the air tightness is good. If the fault light comes on due to low air pressure or poor air tightness, you can re-power on and off in the case of sufficient vehicle air pressure, press the reset button, and repair the air tightness.
- When the vehicle is empty and full or lightly loaded, the airbag pressure is small, and the left and right airbags are inconsistent (such as deflated on one side), you can use the remote controller to lower-reset, raise-reset 2~3 times to restore.

Air suspension operation

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Descr



Air

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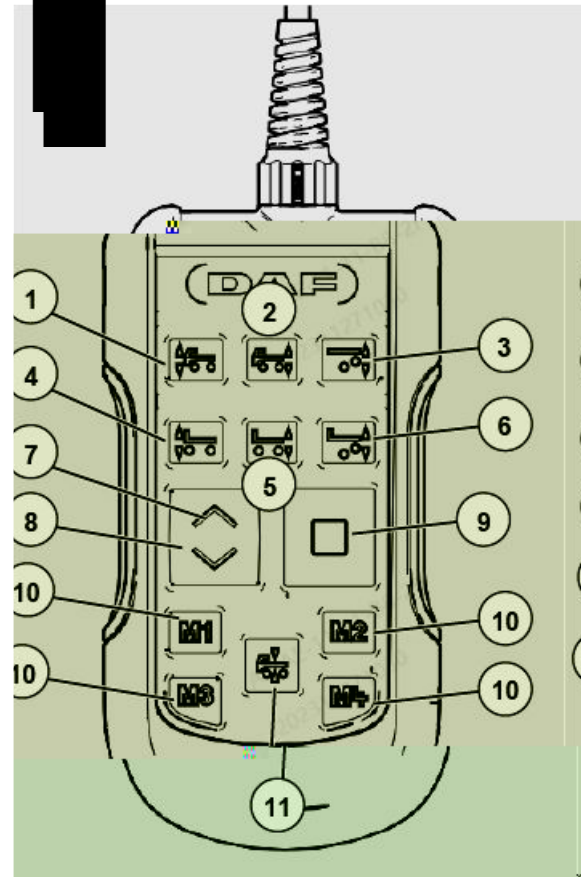




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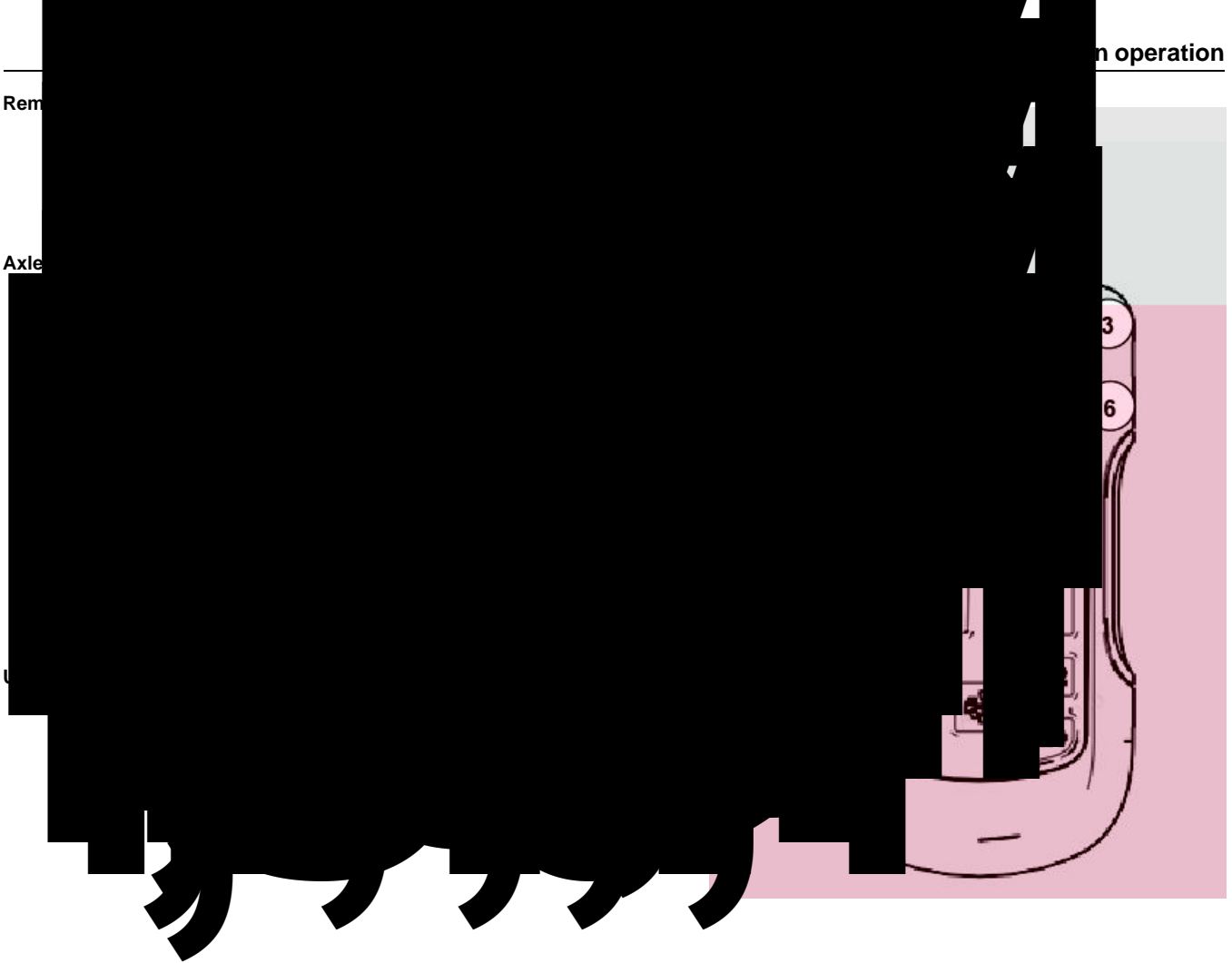
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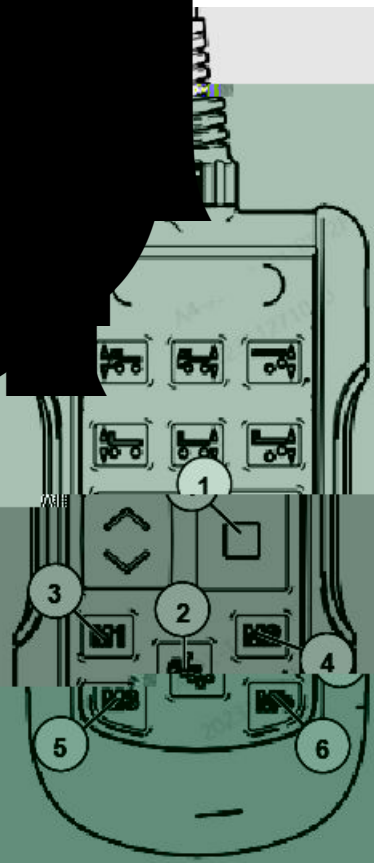
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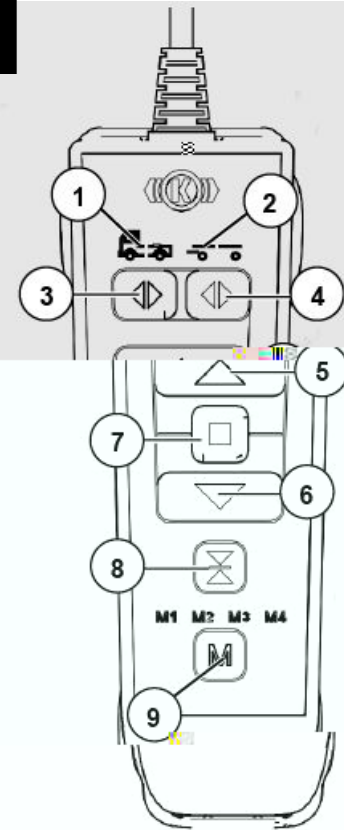




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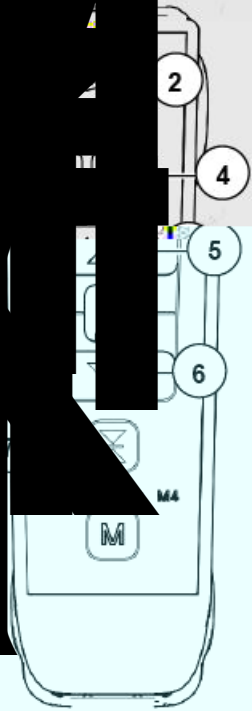
Air suspension operation

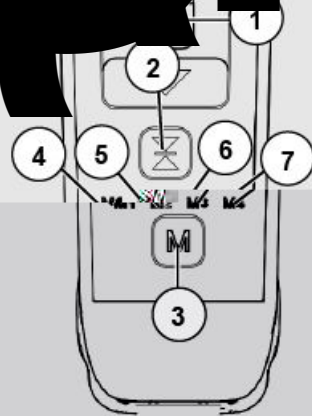
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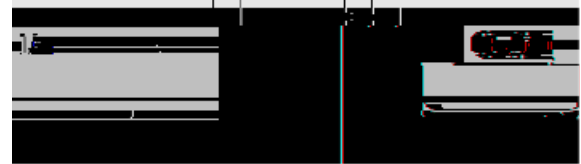
Drive

1

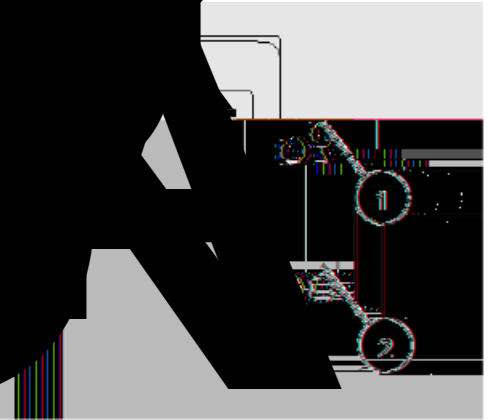
2

3

L1



Cab s
Liftin



Air

Ins

EC

Lif

Dir

Precautions for use of electronically controlled air suspension
system models



Semi-trailer operation

Semi-trailer operation

General instructions for

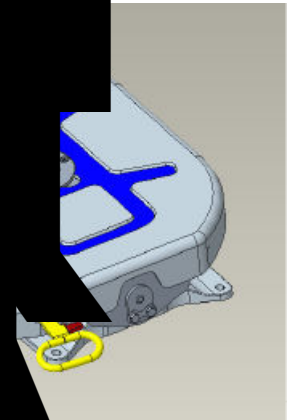


WARNING

—Check the force plate on the side of the saddle carefully when connecting the semi-trailer or operating the saddle.

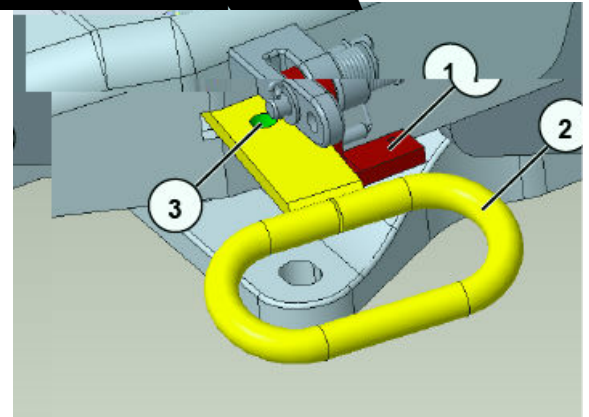
Clear

Co

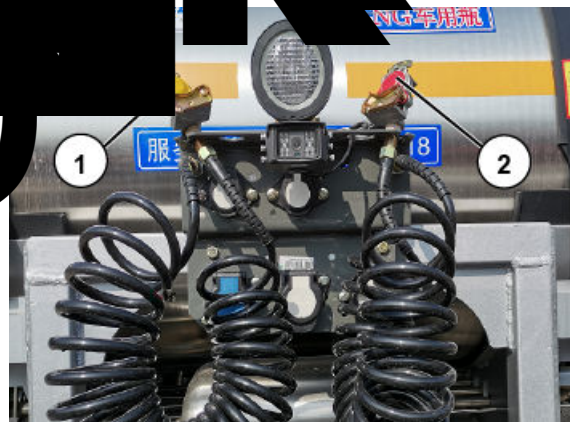


WARNING!

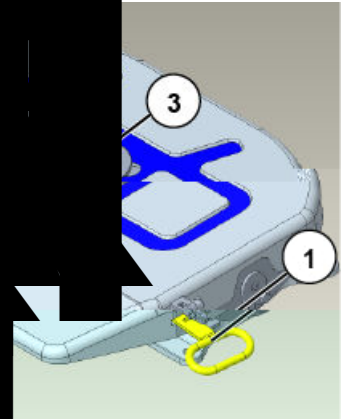
- Operate according to the operating specifications. Incorrect connection of the saddle will lead to operation accidents of vehicles.
- When the towing vehicle is connected with the semi-trailer, be sure to check whether the saddle lock handle is locked correctly, so as to ensure driving safety!



Sen



Dis



WARNING!

Be sure to disconnect the pipeline gas joint in the correct order. Otherwise, the semi-trailer brake will be released, which may lead to vehicle skidding.

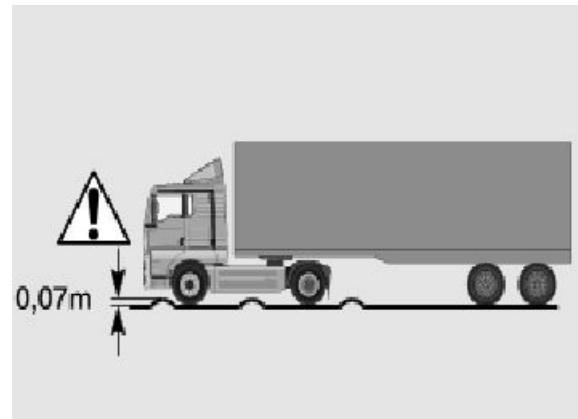
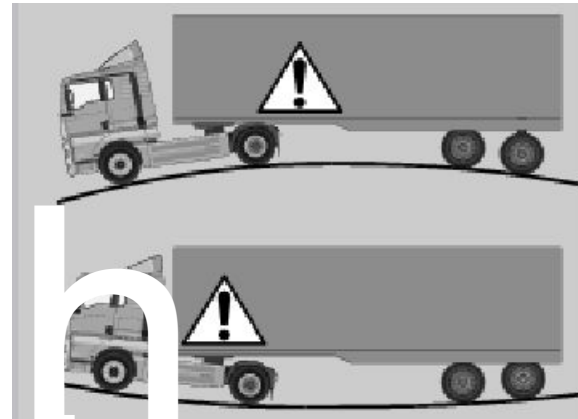
Semi-trailer operation

Tire spacing



WARNING!

- Danger of damaging the vehicle!
- The distance between the semi-trailer and towing vehicle is strictly limited!
- The mobility of the towing vehicle and trailer is limited!
- Driving on puddles, slopes and muddy roads may cause serious damages to the towing vehicle and semi-trailer.
- The vehicle shall only travel at walking speed for a short distance when the height of the vehicle is lowered. Otherwise, the fender and tires will be damaged.



I

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I

Before
After

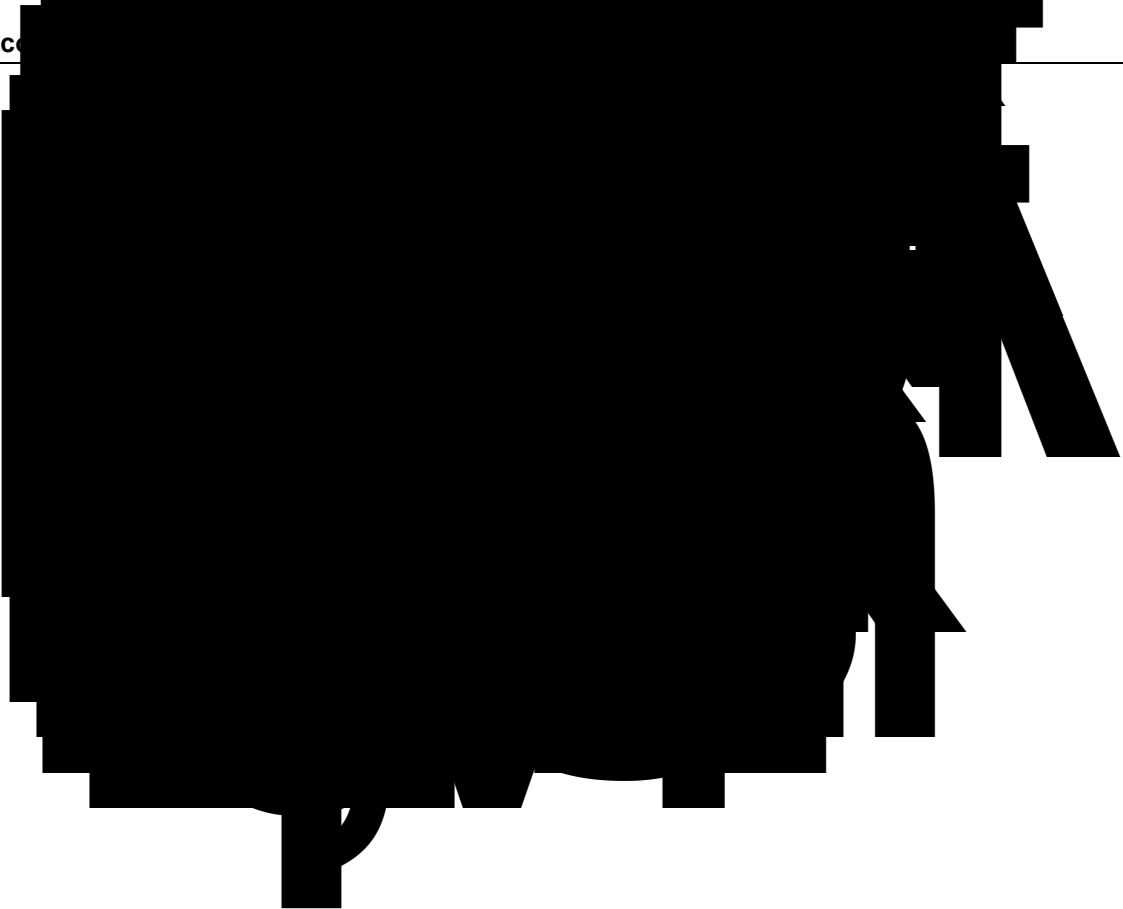
Before

After



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Use

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Snow



WARNING!

- When using snow chains it shall be ensured that there is sufficient clearance between the fender and the tire, and if necessary, between the fender and the body!
- In case that snow chains are installed on a vehicle with an air suspension, do not drive when the air suspension is in a low position!

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Basic

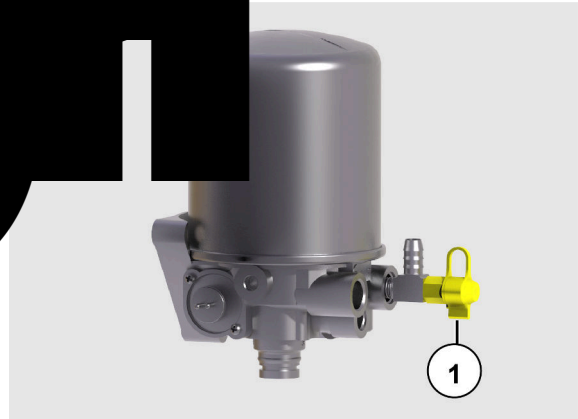
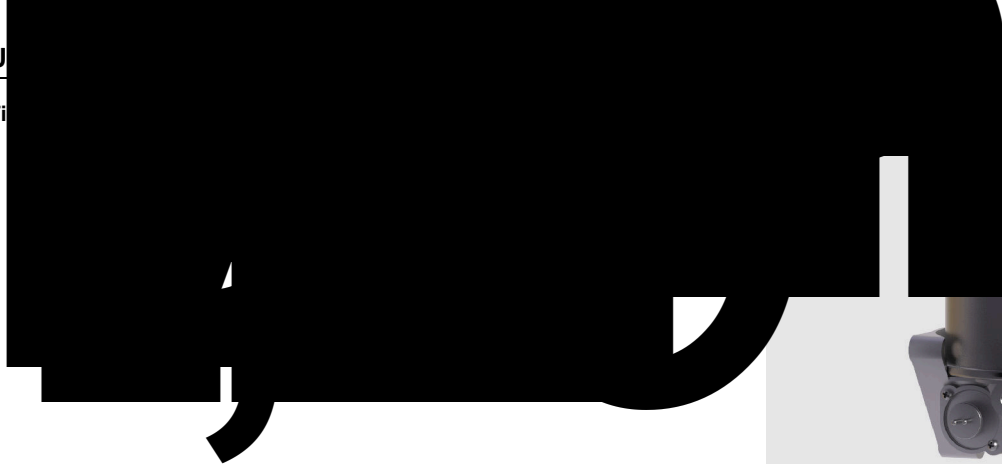
Repla

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on and traction start

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Trac

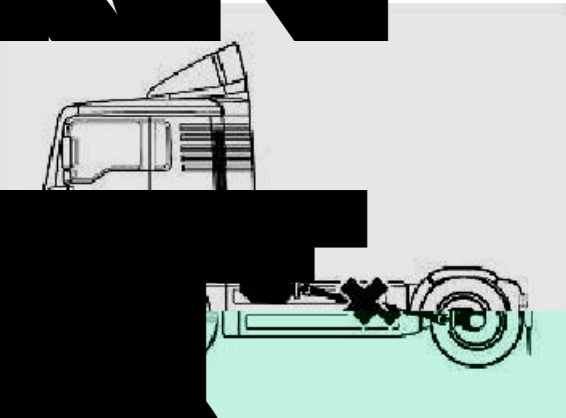
Prepa



WARNING!

-Attempting to steer a stationary vehicle without hydraulic power assistance will cause damage to the steering system!

-S



Tow

...n and traction start

Tractio



Front

Rear

Support



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Conr

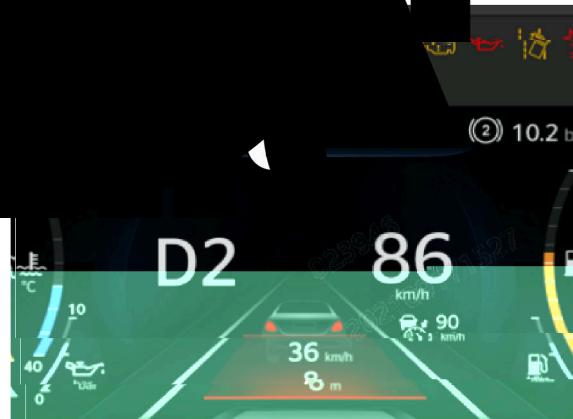
Jur sta

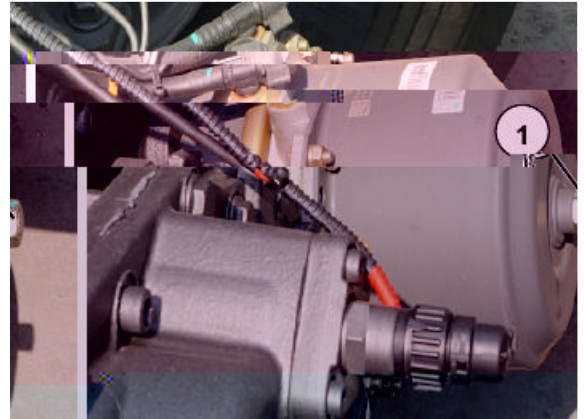
Remove the posi



ATTENTION!

- Before releasing the energy storage spring brake chamber, take the relevant measures to make sure that the vehicle cannot move itself!
- The energy storage spring brake chamber can only be released by pneumatic or mechanical means in case of an emergency or during repairing at the service station.
- After the emergency release of the energy storage spring brake chamber, accidents may occur during driving, because the air pressure of the service brake circuit I and circuit II may not enough to ensure effective braking!
- Do not start the vehicle until the parking brake signal lamp goes off!





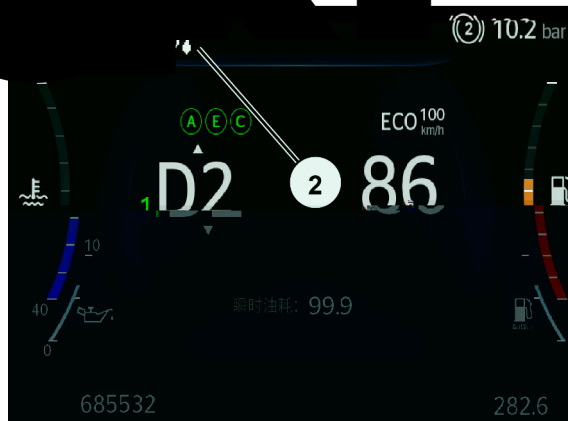
Inspection
Check

Re-tighten

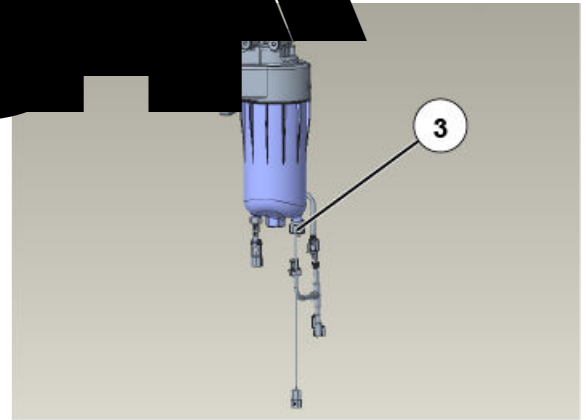


Pri

Prin



Primary fuel filter



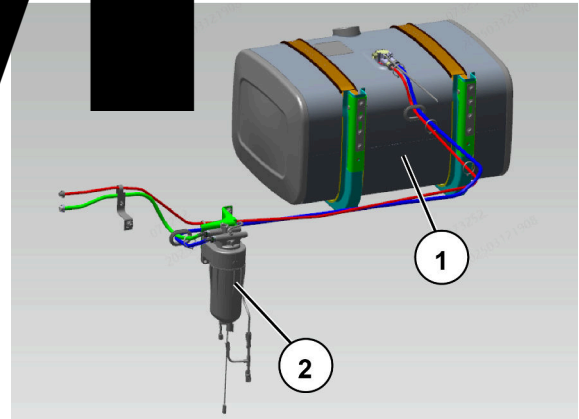


CAUTION!

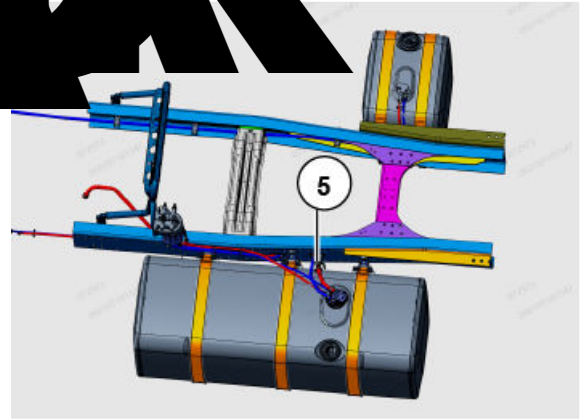
–The seal ring of the housing is a disposal part, which must be replaced with a new one every time the housing is removed for re-installation!

–Every time the housing is removed and re-installed, the gas in the fuel system must be exhausted. The engine start may be affected if the gas in the fuel system is not exhausted completely.

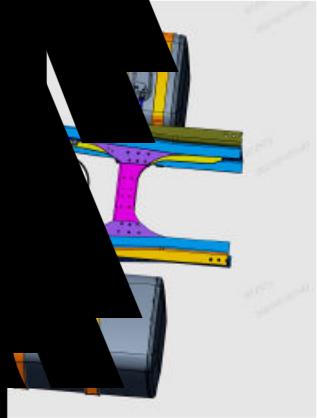
Cold region
Configura



Instruc



Colo





CAUTION!

Do not operate the main/auxiliary tank changeover switch at will. Reduce the number of unnecessary changeover, otherwise, it will mix the fuel and affect the engine start.

Fue

Fuel



Dry air filter



Mai

Dry

Mai



Dry air filter

Checking the



Clean the

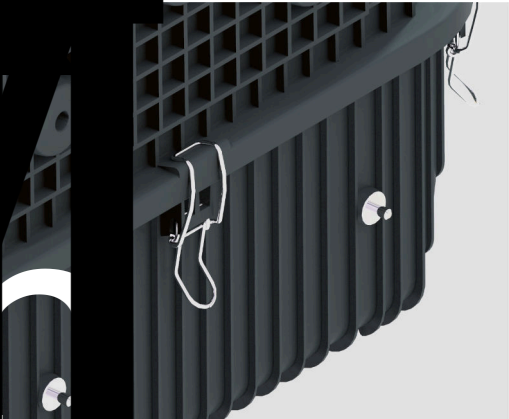
Oil bath air filter



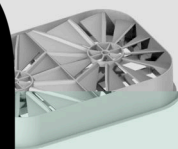
WARNING!



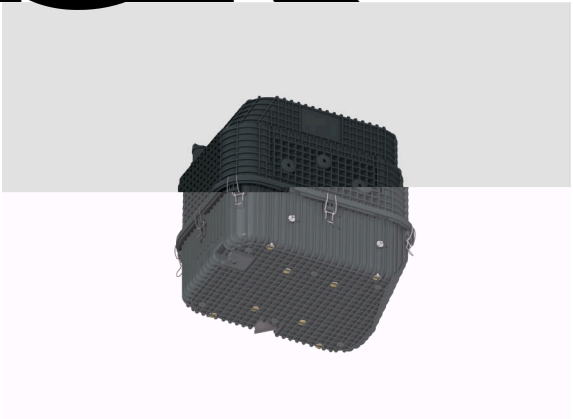
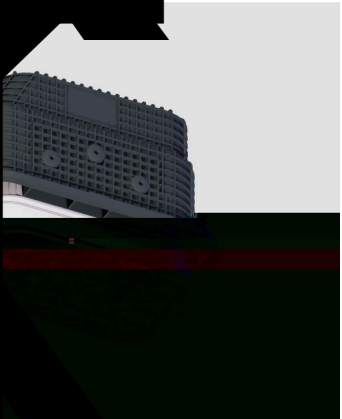
Oil ba



Oil



Oil bath air filter



De

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Mair



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LNG natural gas supply system for vehicles

LNG natural gas supply system for vehicles

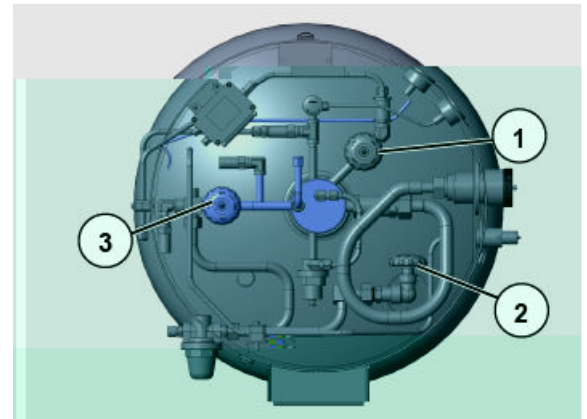
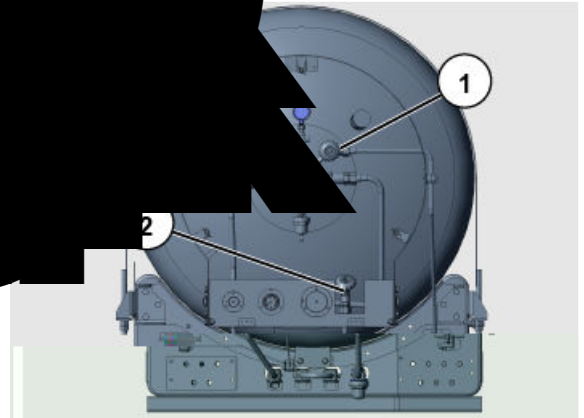


Valve



While driving, if the vehicle experiences insufficient power due to frosting in the vaporizer or buffer tank, after pulling over and turning off the engine, wait until the pipelines have thawed before closing the cylinder liquid cutoff valve (do not close it immediately).

–After the vehicle returns to the yard or needs to be parked for an extended period, ensure that there is no low-temperature liquid gas in the pipelines (no freezing or frosting of low-temperature phenomena) before closing the cylinder liquid cutoff valve.



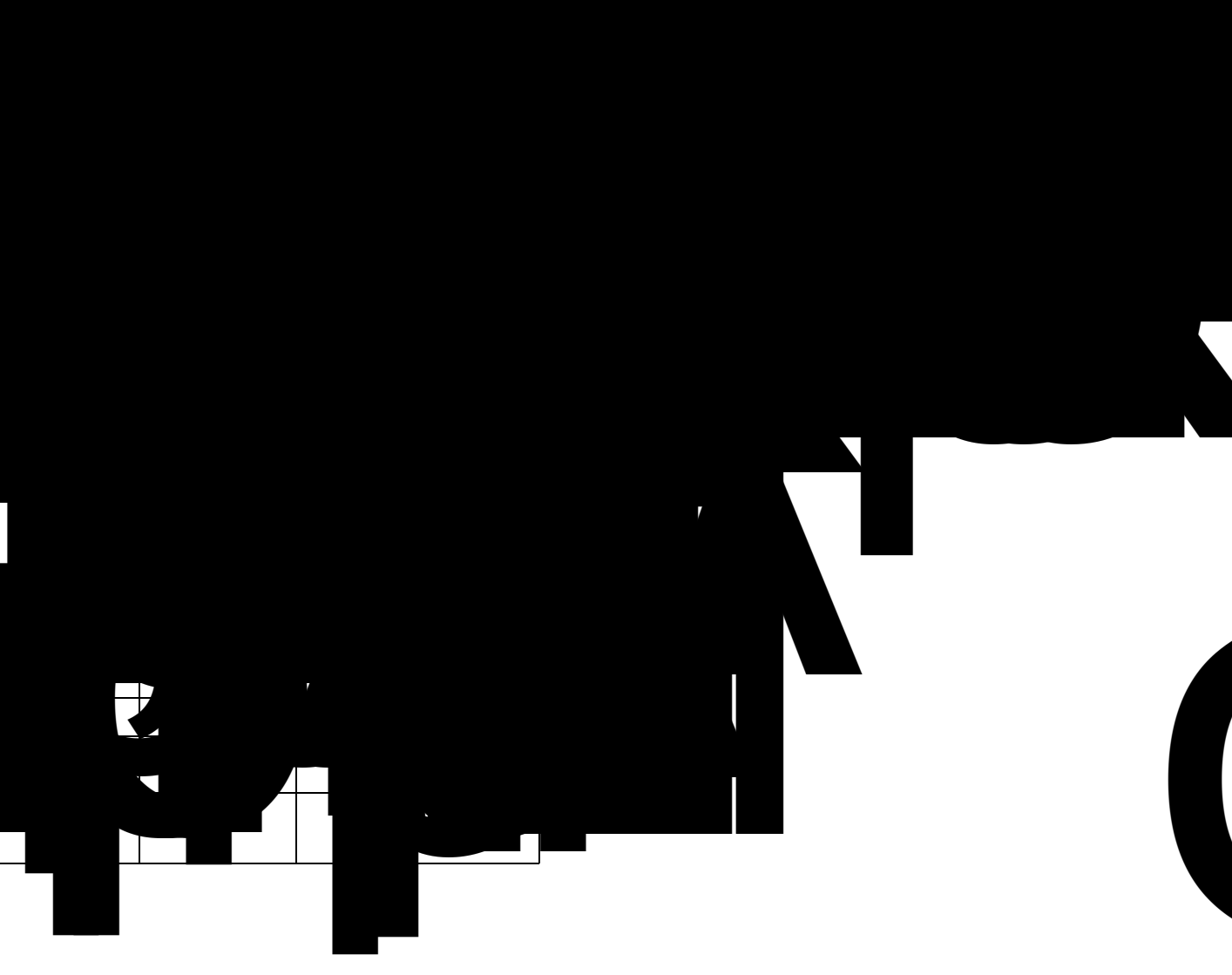
LNG
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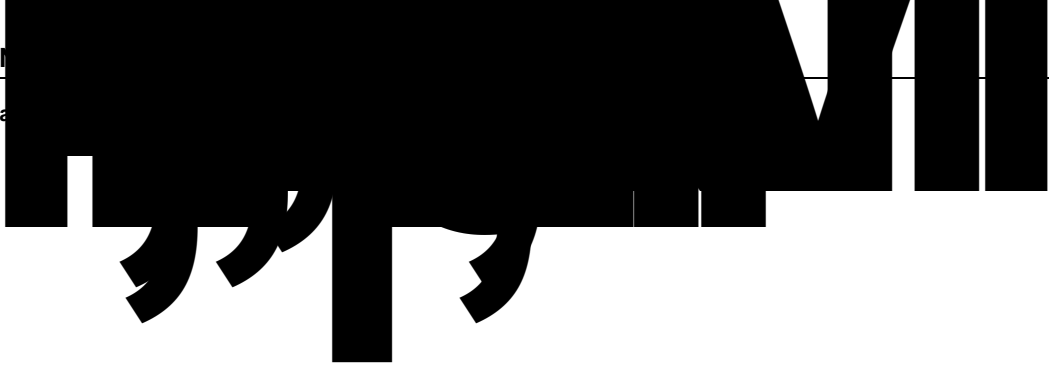
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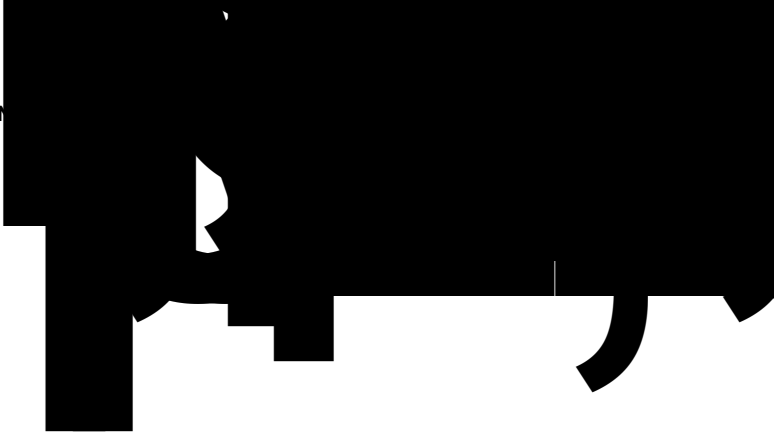
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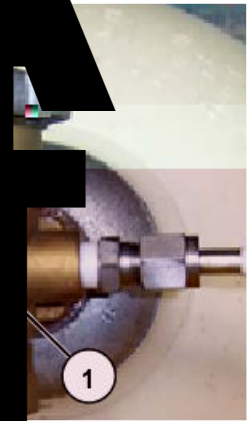


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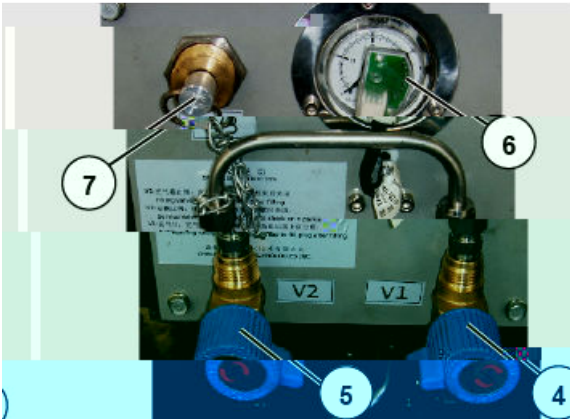
Co

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High



Integrated control assembly



Ch

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Fill



CAUTION!

- When filling the engine should be turned off, and the power supply should be disconnected.
- Because a large amount of heat will be released during the filling process, and the gas temperature is high, the pressure will drop after the gas is sufficiently cooled, which is normal.



Op

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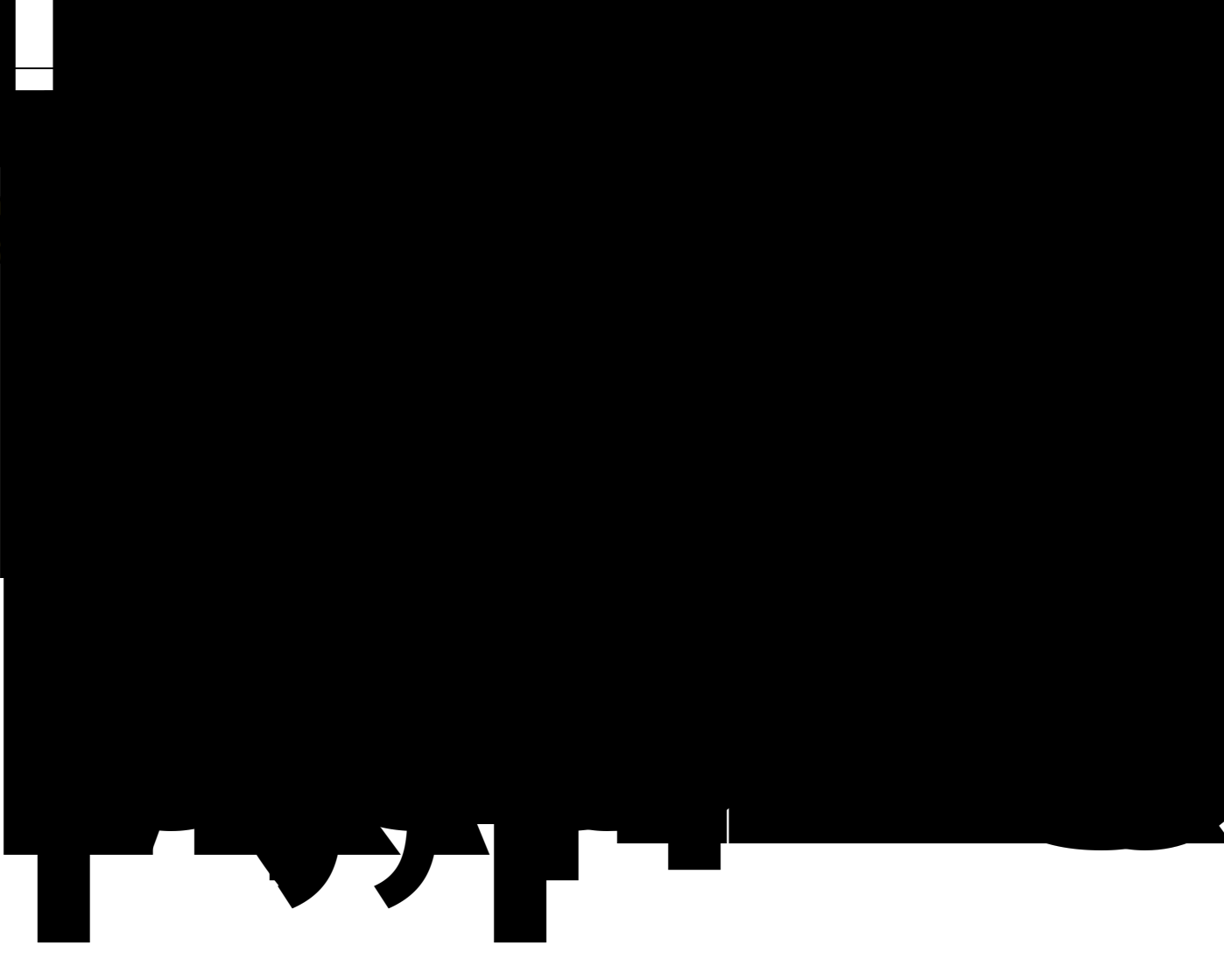
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10000km maintenance



8





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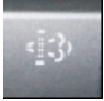



Mair

D

DPF regeneration

Maintenance (ft)



M

Carbon deposit



Driver's operating requirements



M

M

M

M

M



CAUTION!

- After the severe DPF carbon load indicator is displayed on the instrument panel, in order to prevent the DPF from being burnt out, the active regeneration will be stopped. At this time, the engine has a regeneration-related fault and enters the cleaning mode. The engine should be returned to the service station for ash cleaning.
- In order to ensure the normal operation of DPF, it is necessary to carry out periodic back blowing and ash cleaning for DPF.
- After entering the regeneration state, the engine idle speed will increase to 800 r/min.
- At low speed operation, the active regeneration may be interrupted but will restart when the speed and load increase again.

- The exhaust temperature is high during active regeneration. It is forbidden to carry out operations in gas stations, places with high dust, or areas containing flammable and explosive hazardous chemicals.
- The regeneration button is used in special situations. When the vehicle enters a gas station or an area with high dust or other flammable and explosive hazardous chemicals, the driver needs to press this switch in advance to prohibit all active regeneration.
- During the regeneration process, the exhaust temperature is extremely high. It is strictly prohibited to approach the muffler and exhaust pipe. Standing or piling up articles downstream of the exhaust pipe outlet is strictly forbidden.
- Inferior oil products will not only greatly shorten the mileage and time of ash cleaning, but also poison DOC and DPF, resulting in failure to complete regeneration smoothly. Be sure to use fuel and engine oil that comply with China VI regulations.

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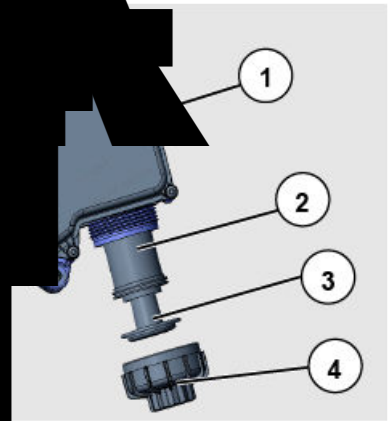
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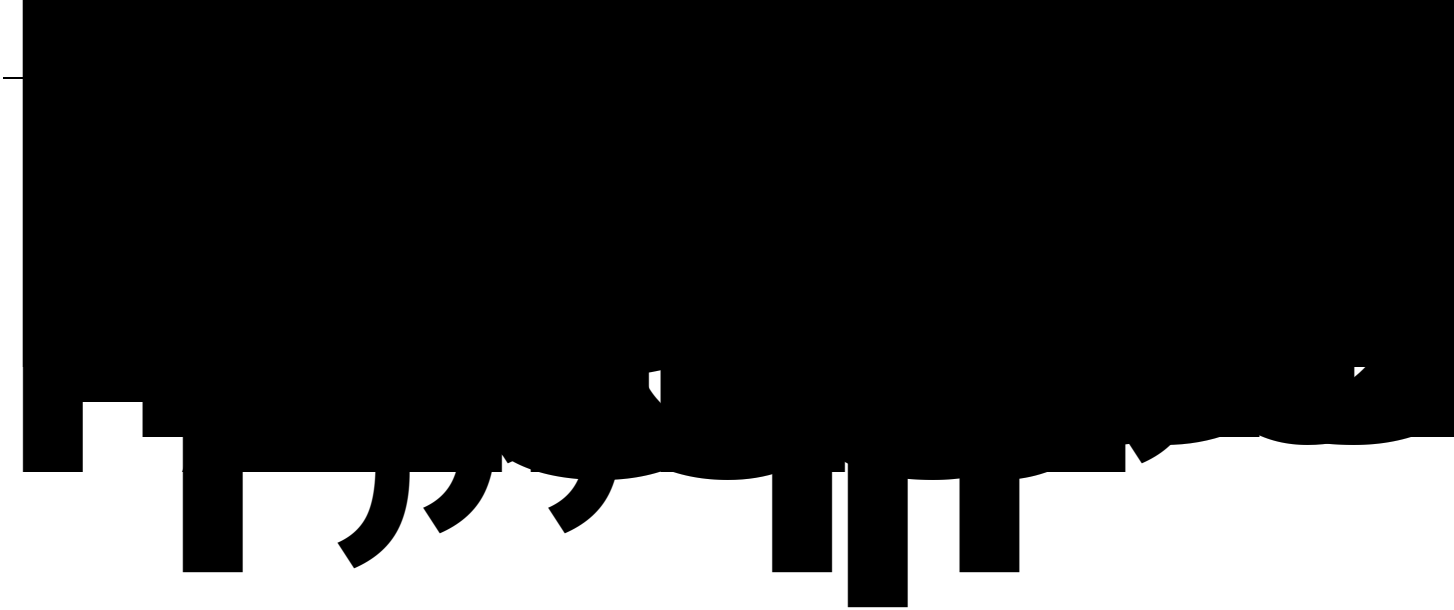
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Replace 3D filter

Proceed using S



Maintenance of

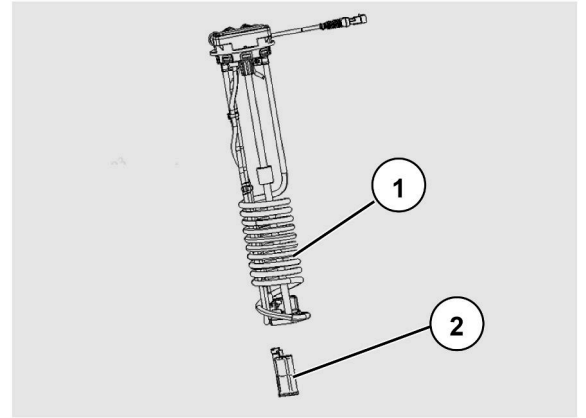
Maintenance of S

Regularly check t

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Replacement of f



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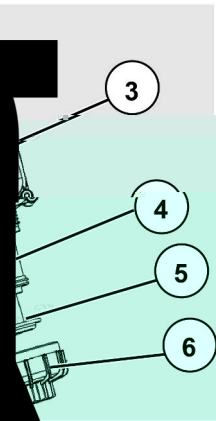
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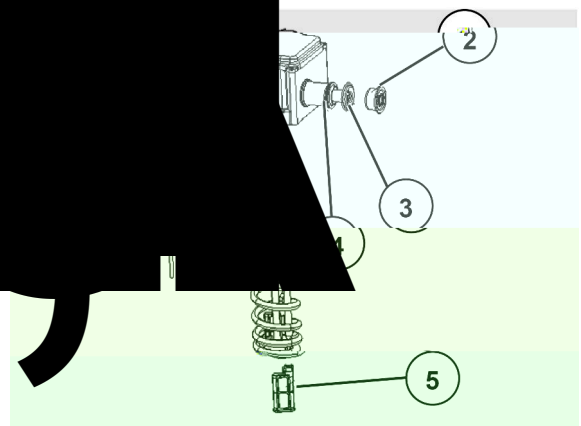
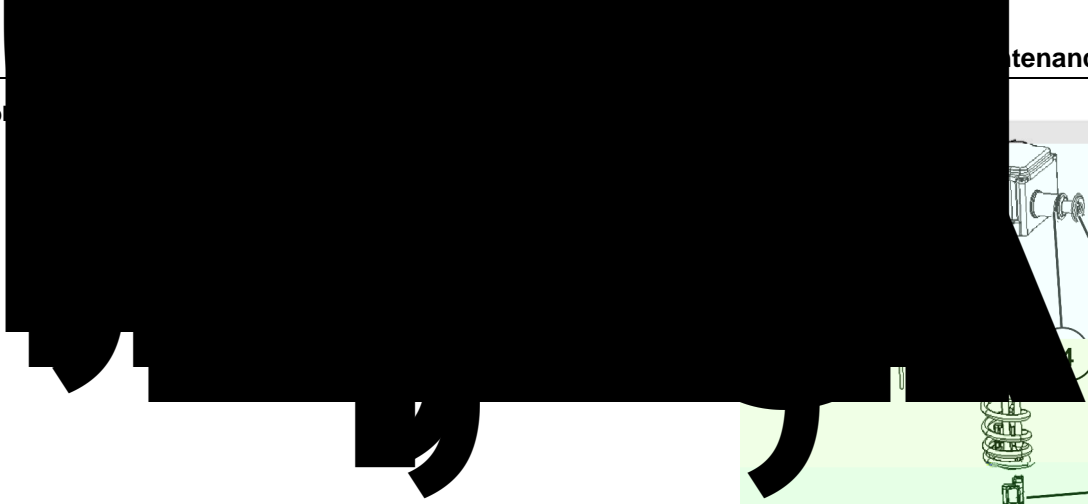
6

Main



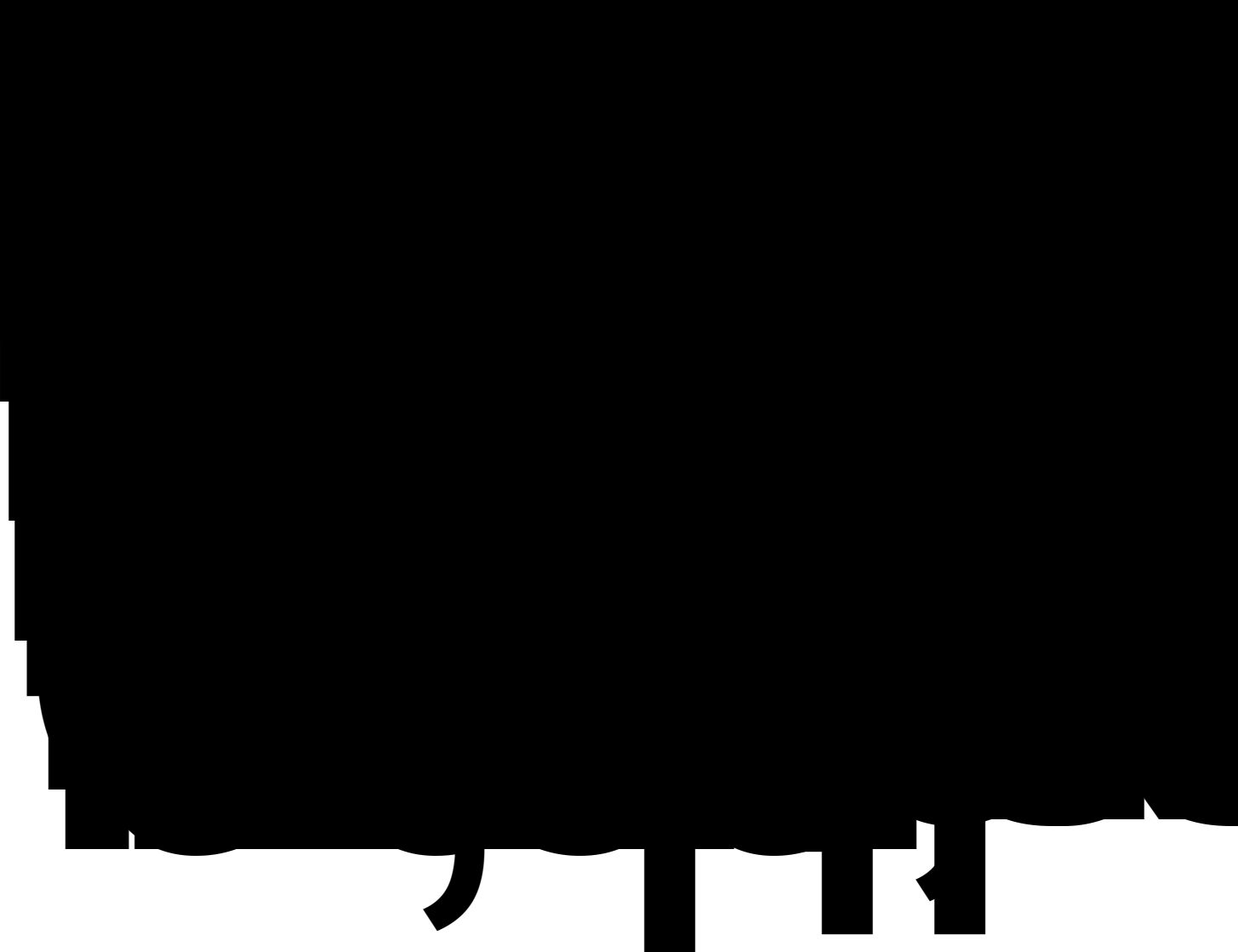
Maintenance of SCR System

Rep



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WARNING

Aqueous urea solution is corrosive to the skin.

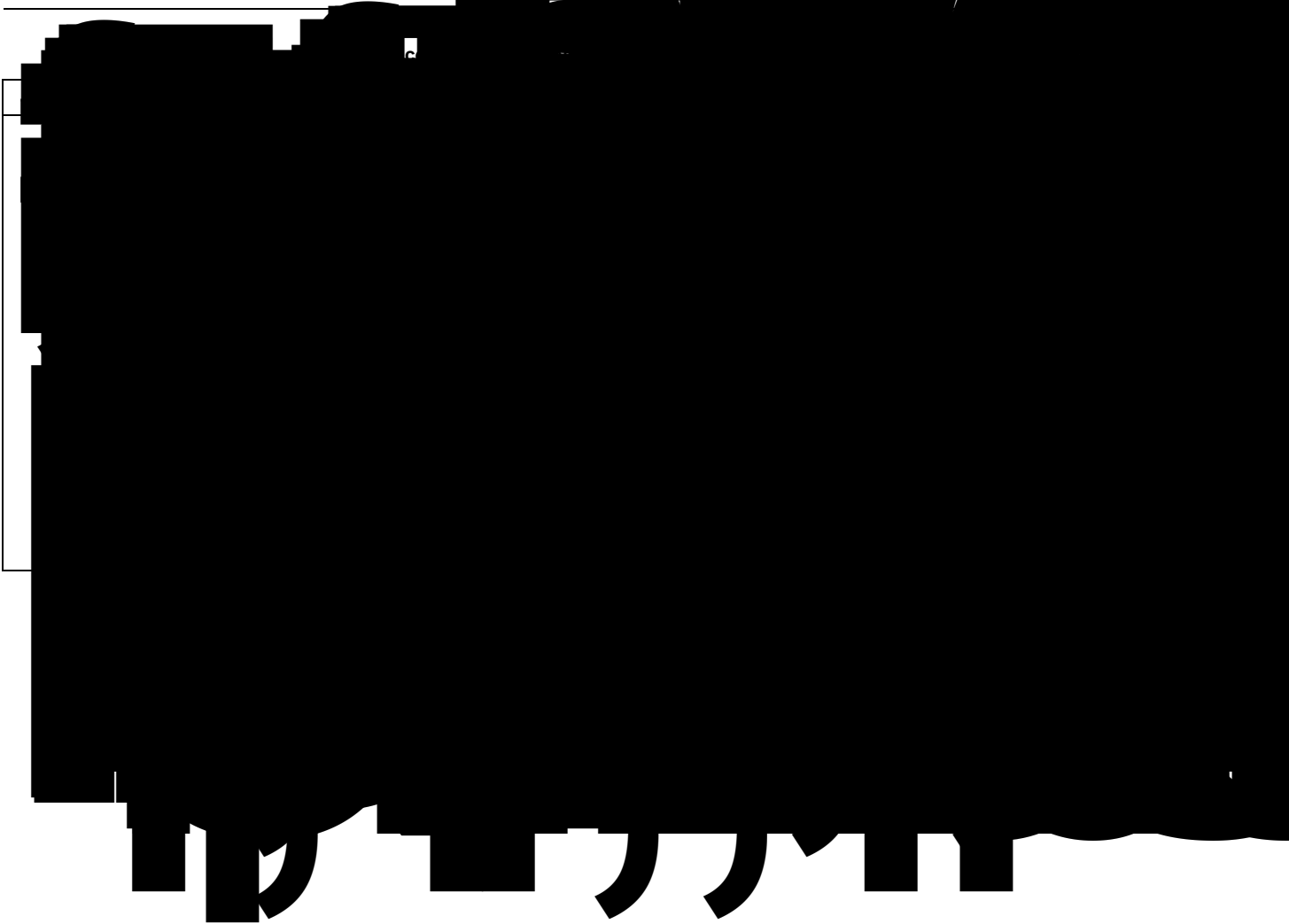
- If it splashes on the skin or eyes during filling, rinse the skin or eyes with water as soon as possible. If the pain persists, please seek medical help. If the urea is swallowed by accident, please seek medical help immediately.
- If the engine continues to run after the aqueous urea solution is used up, the emission will exceed the standard, and the malfunction indicator lamp (MIL) will be on. The output torque will be limited when the engine is started again.
- It is strictly not allowed to disassemble and repair the system without authorization. The maintenance shall be carried out at a service station of CNHTC!

Replacement cy

Replacement cycle



CAU



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Assembly		Amount/L (value)

in and

amount/L
(value)

Record

Applicable models	[REDACTED]
Long-distance tractor and cargo truck	[REDACTED]

Replacement cycle of MC11/MC13 China III

Recommended Consumption and

Applicable models		
Vehicles for transport operation		
Municipal and sanitation vehicles		
Vehicles for lifting, fire fighting and pumping		
Oilfield/pavement truck and cement mixer truck		
Urban construction slag dump truck		
Road transport dump truck		
Pithead dump truck and truck under super load working condition		
Mine site vehicle		

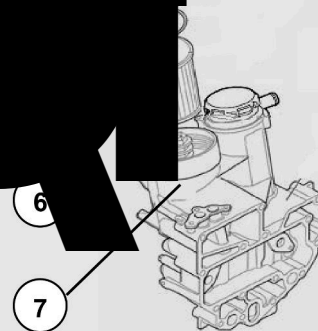
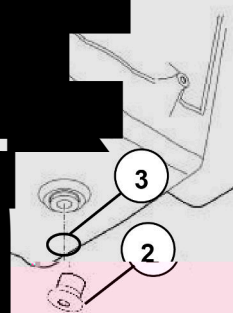
Recommended Co

Assembly	Name	Cooling					

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Replace the [redacted] element [redacted] time [redacted] ch



Injec

Check oil



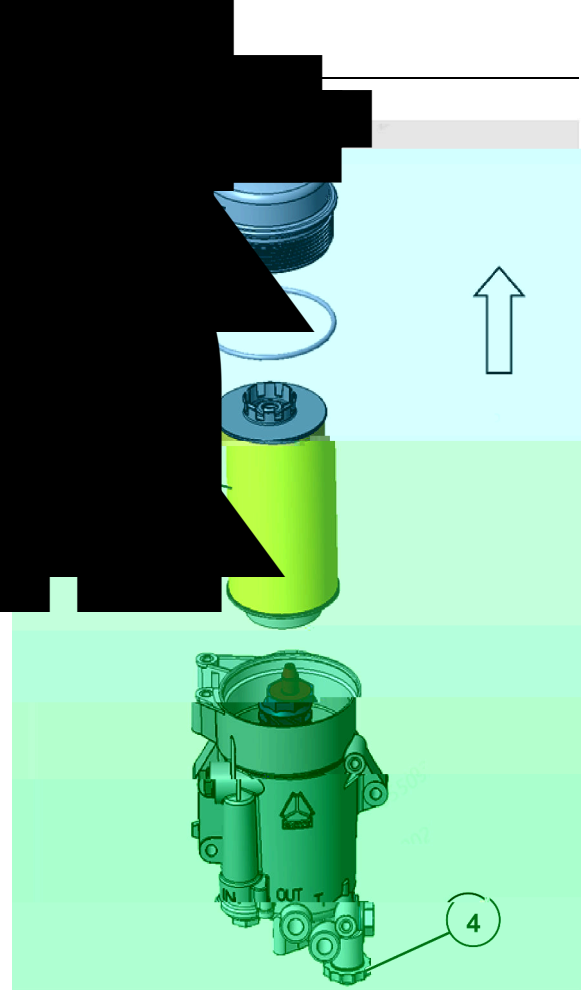
CAUTION!

- Mixed use of different grades of oil is not allowed.
- Oils of the same grade produced by different manufacturers are compatible with each other, which are allowed for mixed use.

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... special filter element shall be used;
otherwise it will cause early engine wear, CNHTC only
provides paid service in such a case.



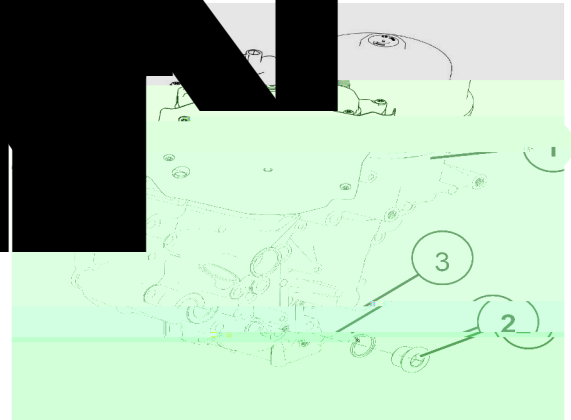
Drain

Add coolant



WARNING!

- The special coolant for MC engine of CNHTC shall be used, otherwise the engine may be damaged. CNHTC only provides paid service in such a case.
- Do not use water instead of coolant.
- The gas in the coolant shall be drained completely, otherwise the water pump will be damaged.



If the coolant becomes cloudy or brown, replace it immediately.

Main

Chec

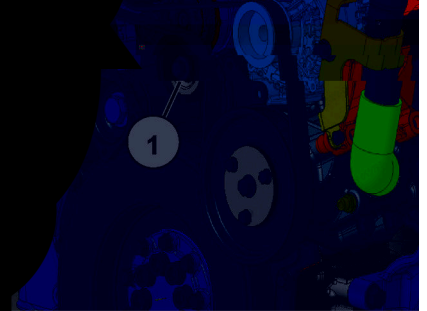
On the

China III engine

Rep



Rep



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Air		

Main

	Remark
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Elec	

Replacement cycle



CAUTION



Replacement cycle of MC11/MC13 China

314

[REDACTED]

Assembly	Amount/L (value)	Amount/L (value)	Amount/L (value)

Replacement cycle of Motor Vehicles C

Record

Applicable models							
Long-distance tractor and cargo truck							

Recommended Consumption and

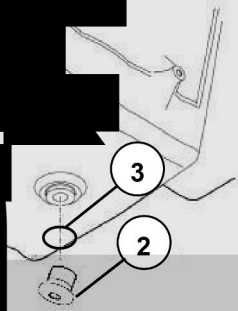
Applicable models		
Vehicles for transport operation		
Municipal and sanitation vehicles		
Vehicles for lifting, fire fighting and pumping		
Oilfield/pavement truck and cement mixer truck		
Urban construction slag dump truck		
Road transport dump truck		
Pithead dump truck and truck under super load working condition		
Mine site vehicle		

Replacement cycle of MC11/MC13

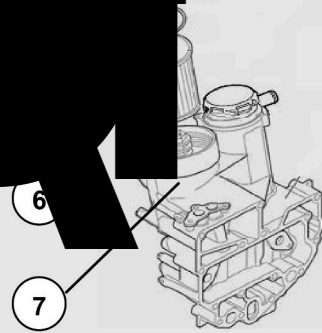
Recommended Co

Assembly	Nam- e	Coola

Mo
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Replace the [redacted] element [redacted] time [redacted] [redacted]

MC1

Injec

Check oil



CAUTION!

- Mixed use of different grades of oil is not allowed.
- Oils of the same grade produced by different manufacturers are compatible with each other, which are allowed for mixed use.

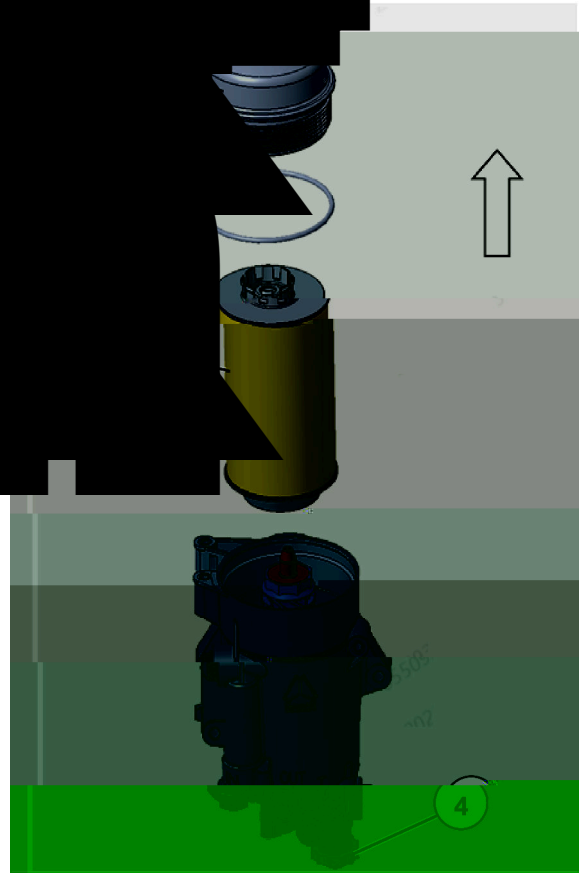
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... special for filter element shall be used;



MC1

Drain

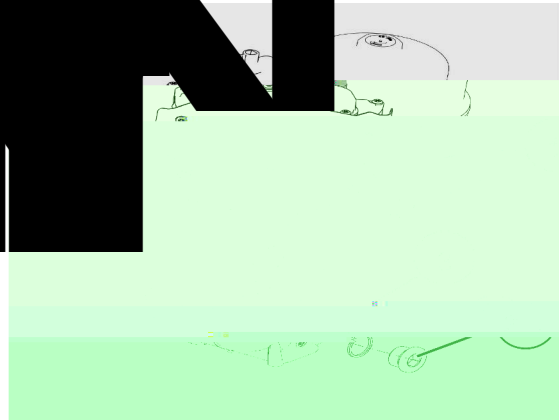
Add coolant



WARNING!

- The special coolant for MC engine of CNHTC shall be used, otherwise the engine may be damaged. CNHTC only provides paid service in such a case.
- Do not use water instead of coolant.
- The gas in the coolant shall be drained completely, otherwise the water pump will be damaged.

If the coolant becomes cloudy or brown, replace it immediately.



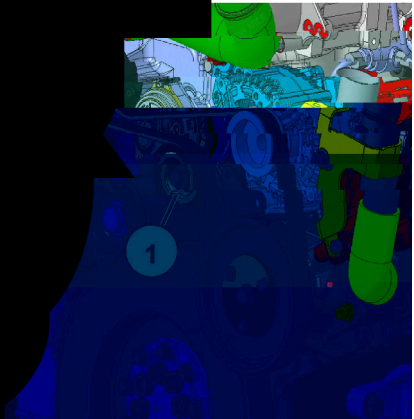
Check

On the

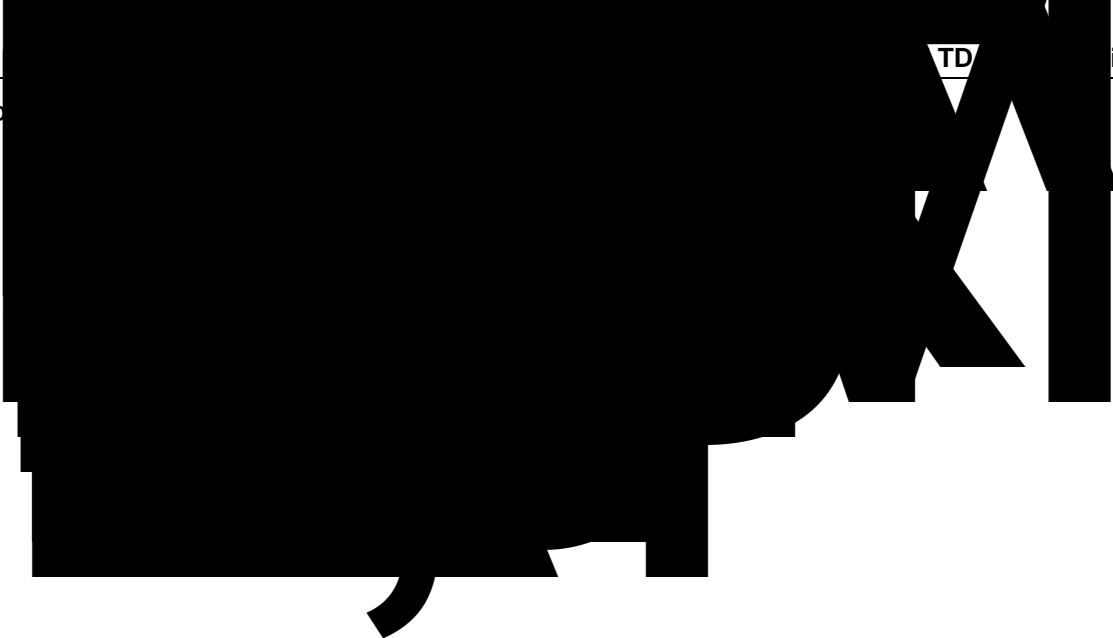
MC

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MC

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Maintenance content

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Replacement cy

Replacement cycle



CAU

Replacement cycle 14(H)/MC13 Chin

Recommend engine oil at 100000 km

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Assembly		Amount/L (value)		

Record

Applicable models		
Long-distance tractor and cargo truck		

Replacement cycle of MC11(H)/MC13 China

Recommended Consumption and

Applicable models		
Vehicles for transport operation		
Municipal and sanitation vehicles		
Vehicles for lifting, fire fighting and pumping		
Oilfield/pavement truck and cement mixer truck		
Urban construction slag dump truck		
Road transport dump truck		
Pithead dump truck and truck under super load working condition		
Mine site vehicle		

O

Recommended Co

Assembly	Name	Cooling						

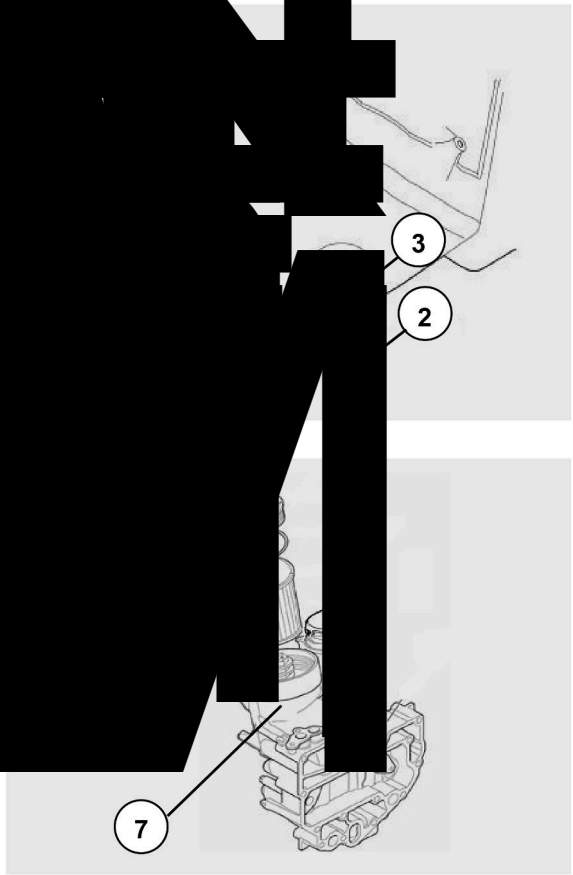
M

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The oil level should be checked every time the engine oil is changed.



Fill

Chem

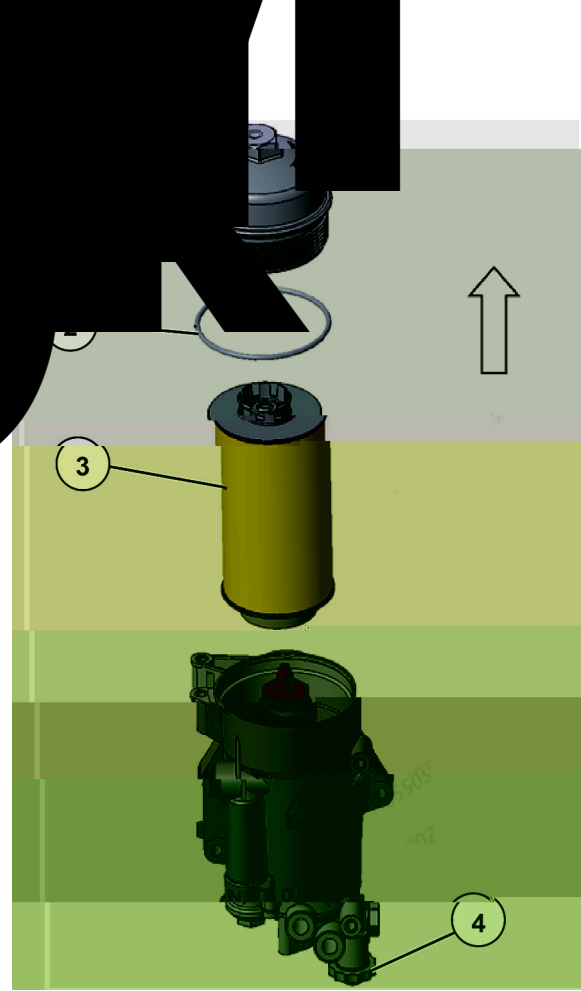


CAUTION!

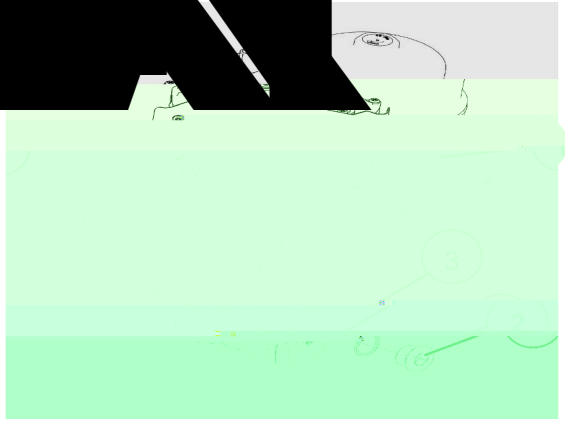
- Mixed use of different grades of oil is not allowed.
- Oils of the same grade produced by different manufacturers are compatible with each other, which are allowed for mixed use.

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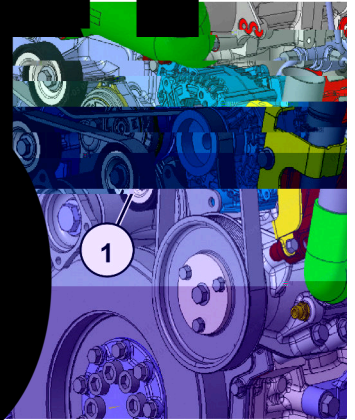


Main

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Rep

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Replacement cycle



CAU

Date	Description	Debit	Credit	Balance	Total	Total	Total	Total
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
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[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
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[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

Recommend engine oil and service

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Replacement cycle of MC (H)/M



the coolant

Assembly	Amount/L (value)

Maintenance of MC11 (H) [redacted] in

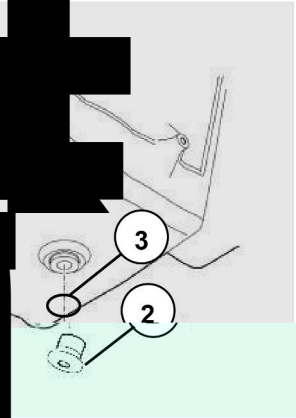
Record

Applicable models		
Long-distance tractor and cargo truck		

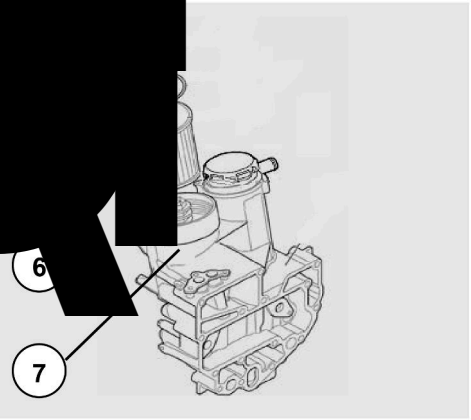
Recommended Consumption and

Applicable models		
Vehicles for transport operation		
Municipal and sanitation vehicles		
Vehicles for lifting, fire fighting and pumping		
Oilfield/pavement truck and cement mixer truck		
Urban construction slag dump truck		
Road transport dump truck		
Pithead dump truck and truck under super load working condition		
Mine site vehicle		

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Replace the filter element every time you change the oil.

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Check oil

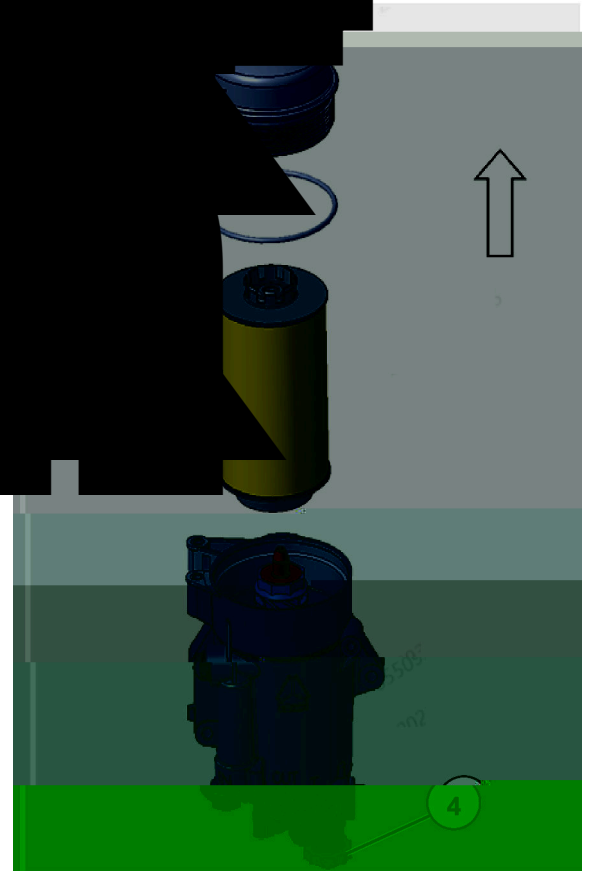


CAUTION!

- Mixed use of different grades of oil is not allowed.
- Oils of the same grade produced by different manufacturers are compatible with each other, which are allowed for mixed use.

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Special filter element shall be used;
otherwise it will cause early engine wear, CNHTC only
provides paid service in such a case.

Main

Drain

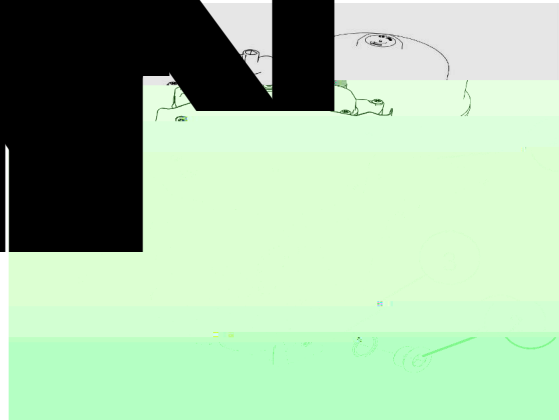
Add coolant



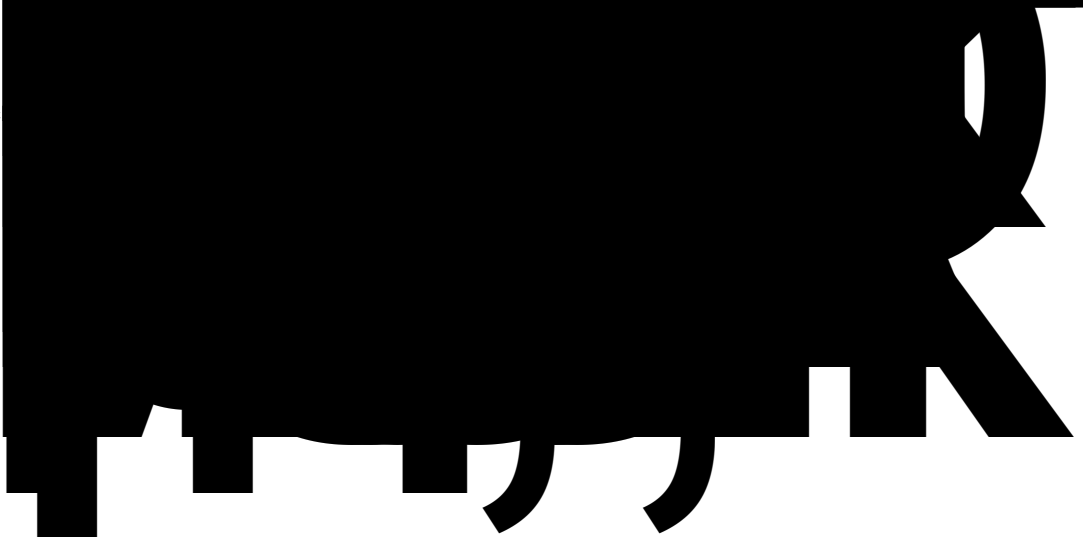
WARNING!

- The special coolant for MC engine of CNHTC shall be used, otherwise the engine may be damaged. CNHTC only provides paid service in such a case.
- Do not use water instead of coolant.
- The gas in the coolant shall be drained completely, otherwise the water pump will be damaged.

If the coolant becomes cloudy or brown, replace it immediately.



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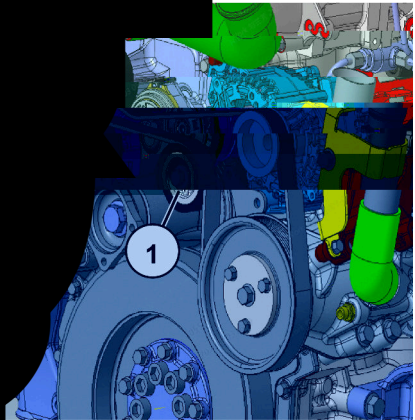


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Replacement cy

Replacement cycle



CAU

Replacement cycle of Motor Oil MC13(H) / MC13(VI) engine oil

Recommended engine oil type and replacement intervals for MC13(H)/MC13(VI) engine models (TD China VI) in long-distance operation

Assembly	Model	Operating hours	Oil product quantity	Replacement interval	
[REDACTED]					

Re

Replacement cycle

Recommended engine oil type and intervals for MC13(H) div
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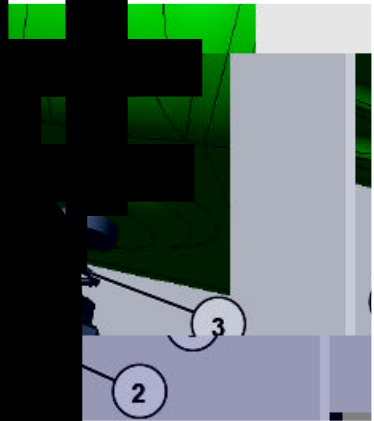
Record

Applicable models	[REDACTED]
Long-distance tractor and cargo truck	[REDACTED]

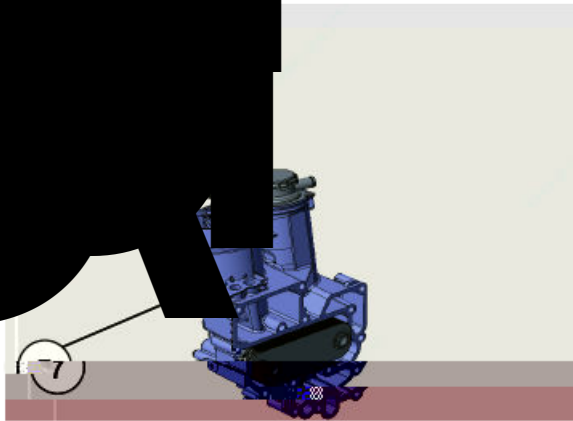
Recommended Consumption and

Applicable models		
Vehicles for transport operation		
Municipal and sanitation vehicles		
Vehicles for lifting, fire fighting and pumping		
Oilfield/pavement truck and cement mixer truck		
Urban construction slag dump truck		
Road transport dump truck		
Pithead dump truck and truck under super load working condition		
Mine site vehicle		

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Replace the [redacted] element every time [redacted] c

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Check oil

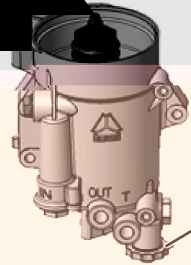


CAUTION!

- Mixed use of different grades of oil is not allowed.
- Oils of the same grade produced by different manufacturers are compatible with each other, which are allowed for mixed use.

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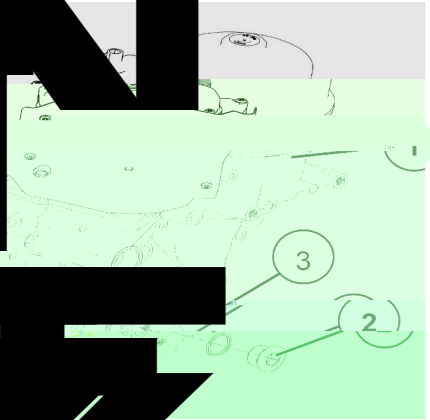


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Drain

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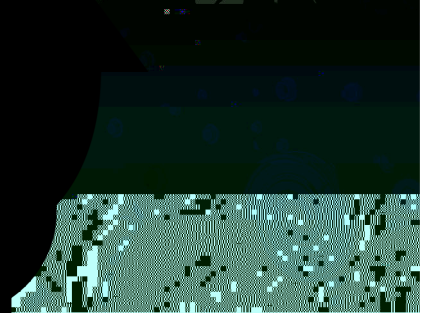
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Air intake and exhaust system		

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3(H) China VI engine

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Oil change interval

Engine oil

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WARNING!

- Do not check the lubricating oil level when the engine is running.
- It is not allowed to mix different grades of engine oil.
- Do not use any other engine oil for MT13 engine, otherwise it will cause serious damage to the engine in a very short time, and SINOTRUK only provides paid services.

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Assembly	Milk	Cooling filling amount/L (reference value)	medium and

Record

Applicable models	
Long-distance tractor and cargo truck	

Replacement cycle of MT13 China V engine

Recommended Consumption and

Applicable models		
Vehicles for transport operation		
Municipal and sanitation vehicles		
Vehicles for lifting, fire fighting and pumping		
Oilfield/pavement truck and cement mixer truck		
Urban construction slag dump truck		
Road transport dump truck		
Pithead dump truck and truck under super load working condition		
Mine site vehicle		

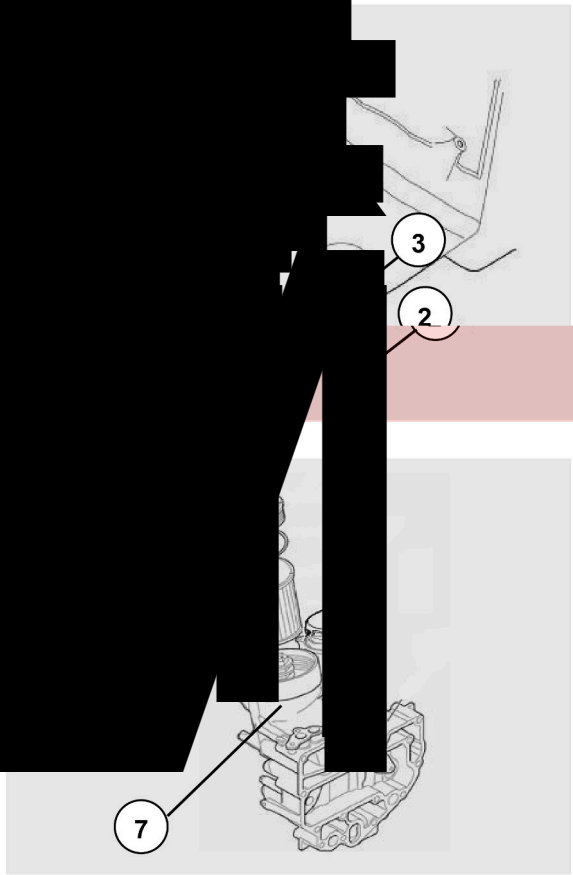
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The oil filter element should be replaced every time the engine oil is changed.



Fill

Change



CAUTION!

- Mixed use of different grades of oil is not allowed.
- Oils of the same grade produced by different manufacturers are compatible with each other, which are allowed for mixed use.

Ma

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Fill



WARNING!

- The special coolant for MC engine of CNHTC shall be used, otherwise the engine may be damaged. CNHTC only provides paid service in such a case.
- Do not use water instead of coolant.
- The gas in the coolant shall be drained completely, otherwise the water pump will be damaged.

If the coolant becomes turbid or turns brown, it should be replaced immediately.

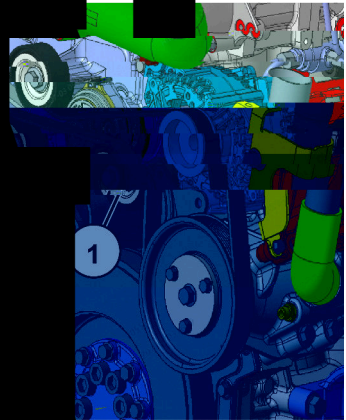
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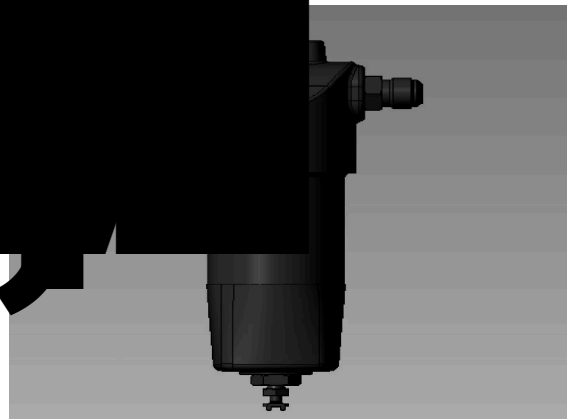
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WARNING

Do not intentionally blow down under pressure, otherwise serious injury may occur.



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Maintenance of Weichai WP15H China V engine

Engine lubricating oil temperature-viscosity reference table

Viscosity grade	Operating temperature range, °C	Viscosity grade	Operating temperature range, °C



- CAUTION!**
- Before starting the engine, check the oil level in the oil pan.
 - Do not check the oil level when the engine is running.
 - Never mix Weichai special engine oil with engine oil from other manufacturers at the same time.

Engine o

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Maintenance of Weichai WP15H China V engine



CAUTION!

- The urea solution should be stored in a closed container in a cool, dry space away from strong oxidants. If the urea is directly poured into the urea tank during filling, it may splash and cause environmental pollution. Specialized filling equipment is recommended.
- The urea solution is corrosive to the skin. If you accidentally touch the skin or eyes during adding, rinse with water as soon as possible; if the pain persists, seek medical help. If accidentally swallowed, rinse mouth first, do not induce vomiting, and seek medical attention immediately.

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Maintenance of Weichai WP15H China V engine

Maintenance specifications

Tractor and cargo truck

Regular maintenance

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ATTENTION!

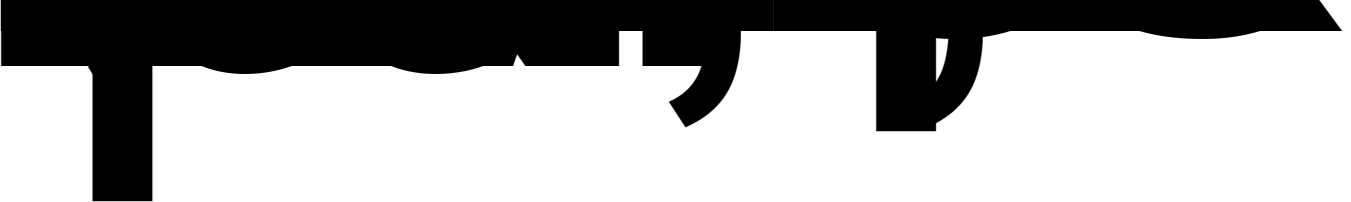
– **Do not install the filter element and filter cover separately. The filter element and filter cover must be combined together before being installed on the filter seat.**
– **Unqualified oil or oil filter element will cause early wear of bushings at crankshaft and other parts, aggravate the risk of excessive emission, etc.**

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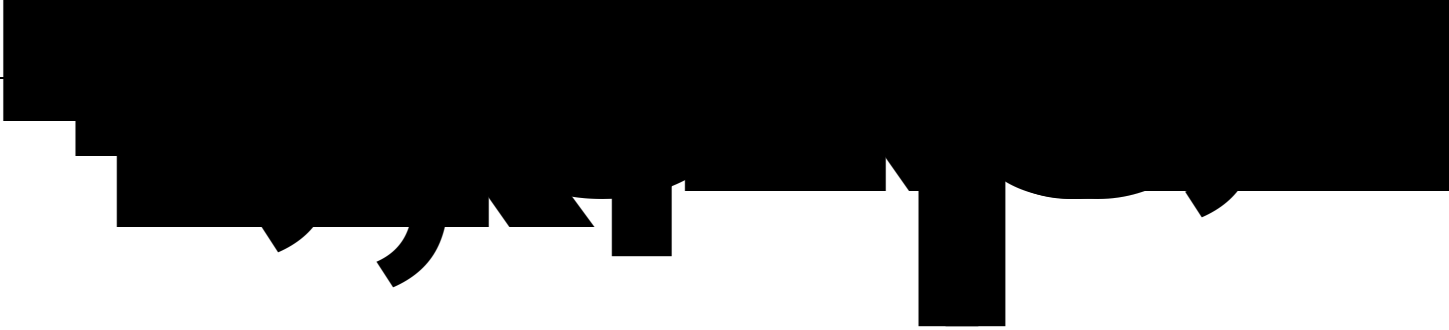
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Engine oil

Model	Oil filling quantity (L)	Packaging specification

Engine Lubricating Oil Temperature-Viscosity Reference Table

Viscosity grade	Operating temperature range, °C	Viscosity grade	Operating temperature range, °C



- ATTENTION!
- Before starting the engine, check the oil level in the oil pan
- Do not check the oil level when the engine is running.
- It is prohibited to mix Weichai Power special oil with the oil of another manufacturer.

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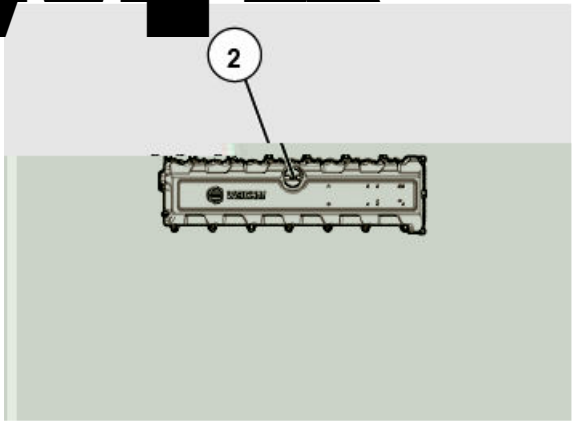
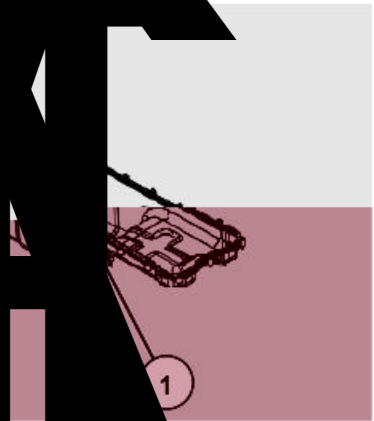
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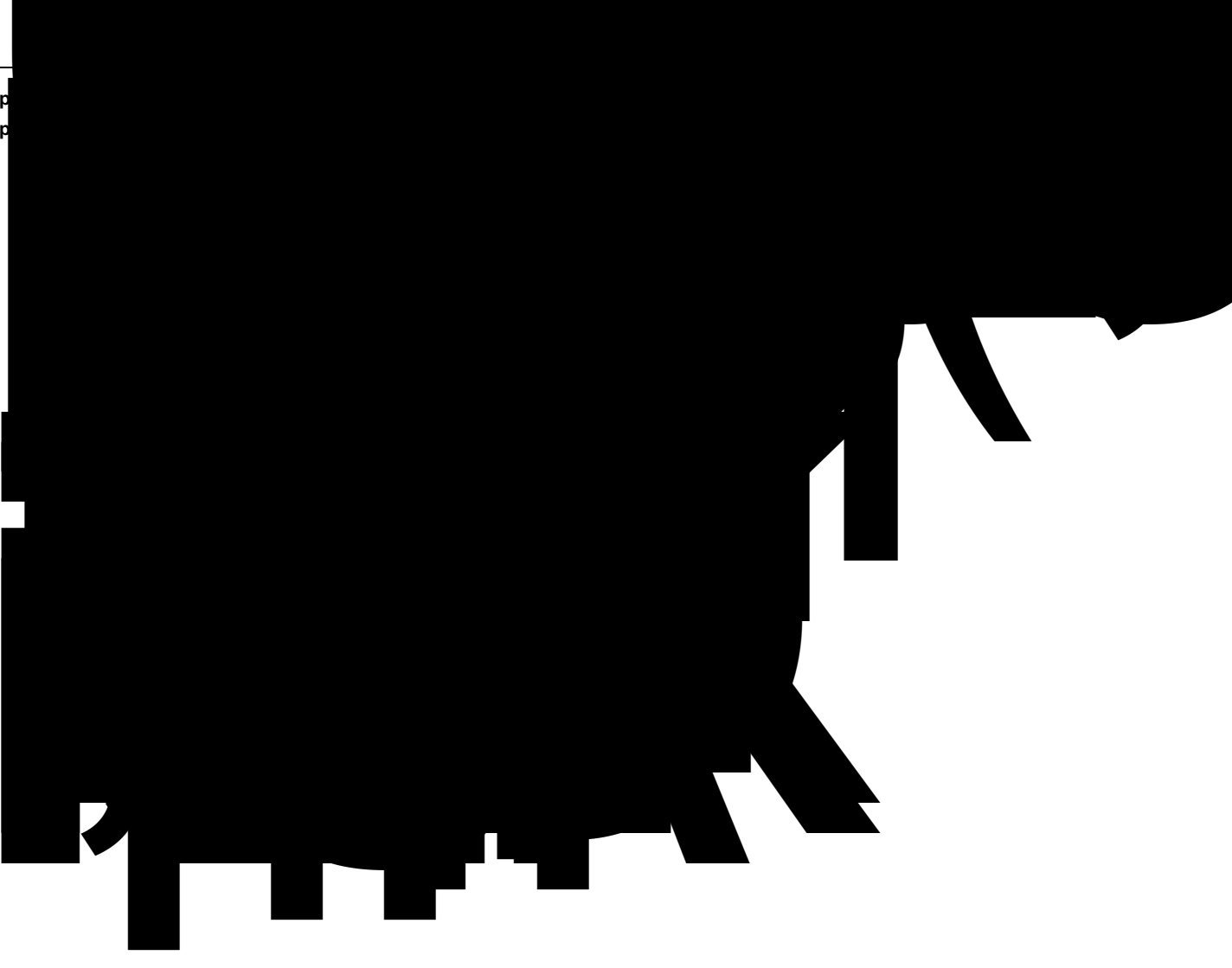


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Clutch brake fluid replacement

Recommended

Applicable models	
Long-distance tractor and cargo truck	

Clutch brake fluid replacement

Applicable models	Applicat		Remarks

Recommended Consumption and

Applicable models		
Vehicles for transport operation		
Municipal and sanitation vehicles		
Vehicles for lifting, fire fighting and pumping		
Oilfield/pavement truck and cement mixer truck		
Urban construction slag dump truck		
Road transport dump truck		
Pithead dump truck and truck under super load working condition		
Mine site vehicle		

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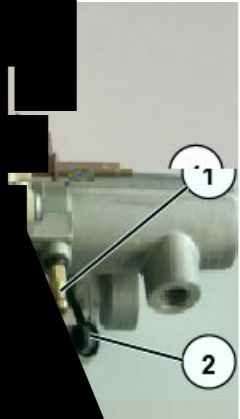


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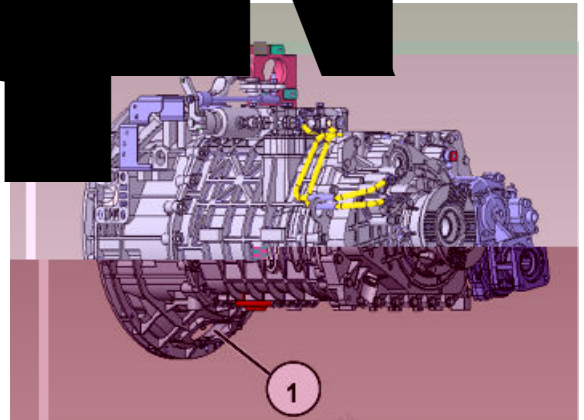


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HW transmiss

Application
model

Application model							





Consumption

Consumption

of HW for medium and heavy

HW

It is recommended to judge the filling amount of lubricating oil through the oil level observation hole when the vehicle is in a horizontal state during filling. In principle, the lubricating oil level should be flush with the bottom end of the oil level observation hole.)

filling amount of

in the system and he

(*It is recommended to judge the filling amount of lubricating oil through the oil level observation hole when the vehicle is in a horizontal state during filling. In principle, the lubricating oil level should be flush with the bottom end of the oil level observation hole.)

Model of primary shaft PTO	Primary

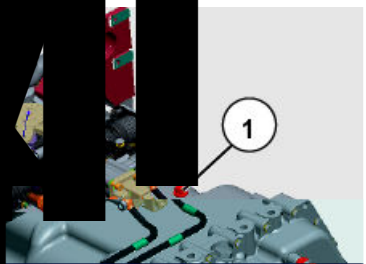
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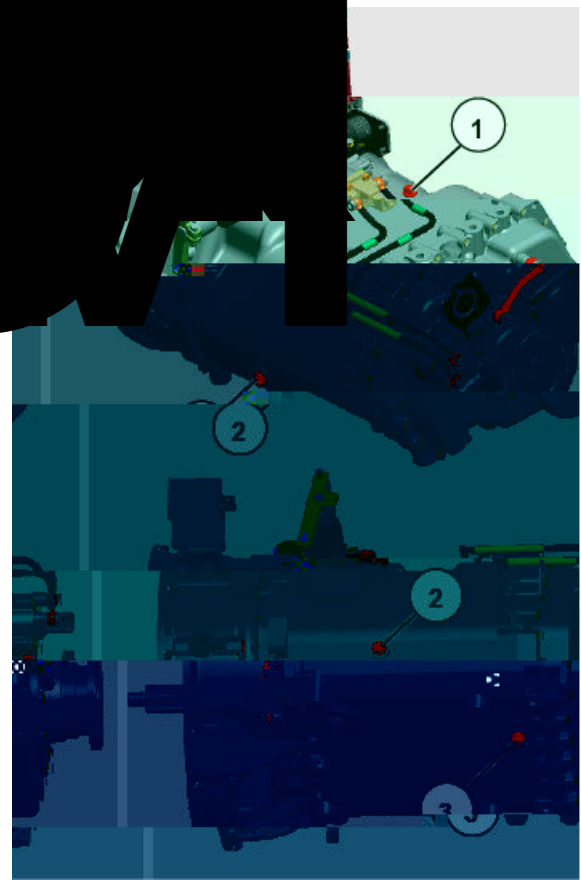
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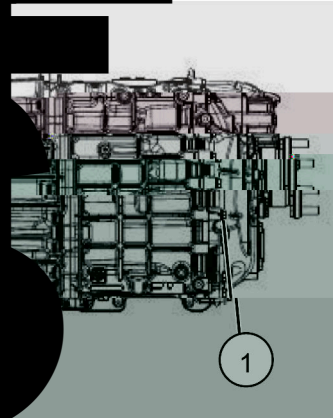
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ZF transmission oil change and precautions

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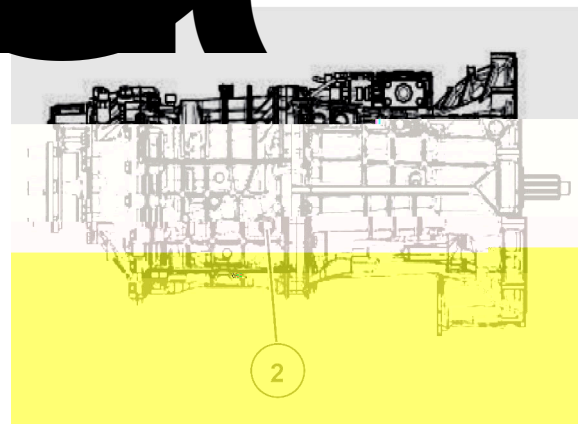
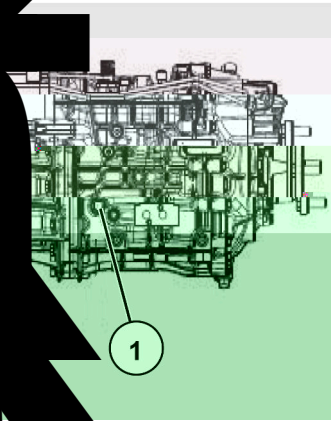
DAUER!

Contact with hot transmission and lubricating oil may cause scalding, so please take protection.

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Oil



ATTENTION!
Every time you check the oil level, check the transmission
for oil leaks.

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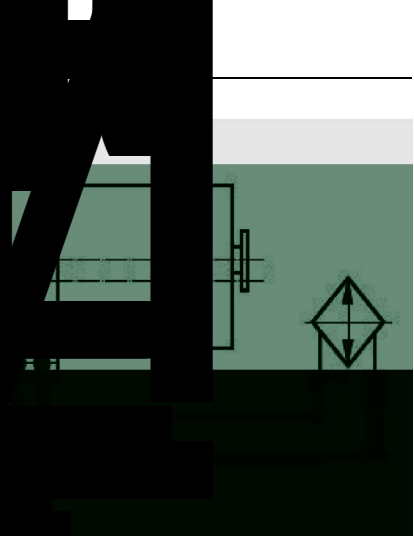
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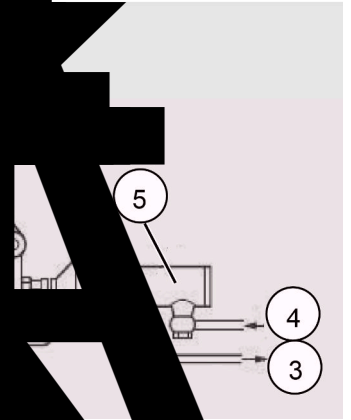
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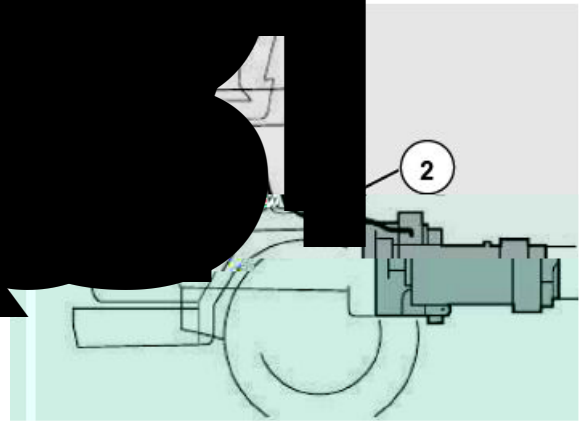
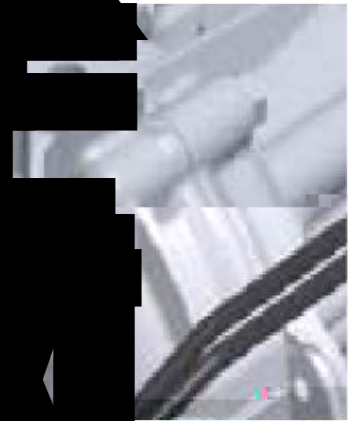
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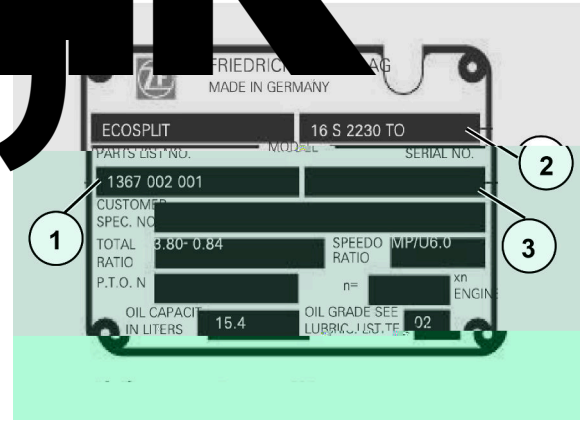
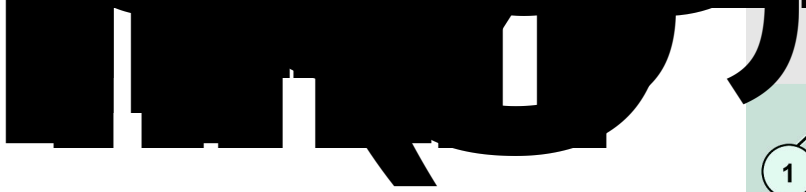
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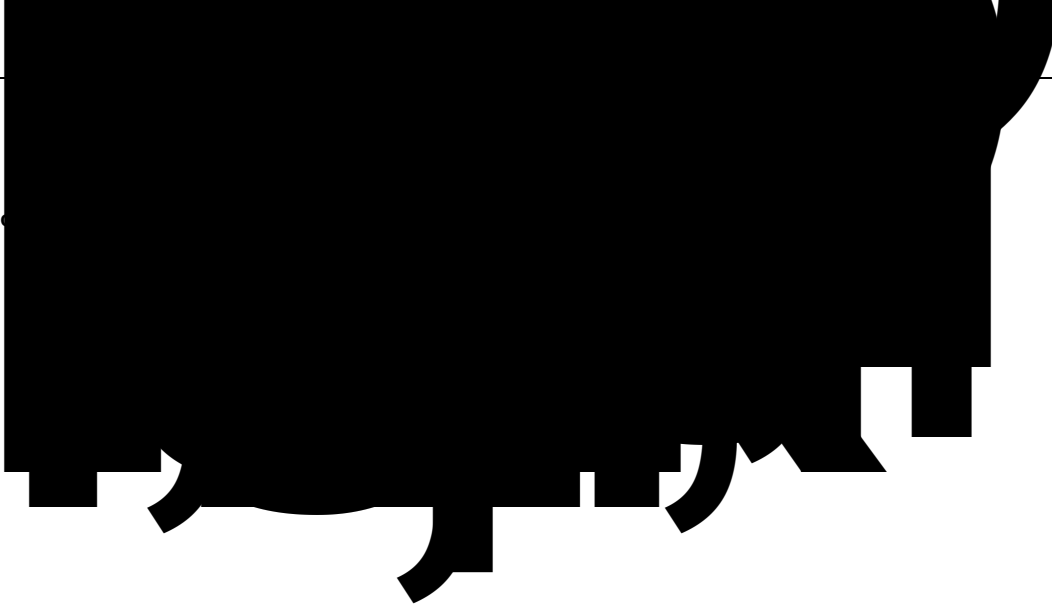


WARNING!

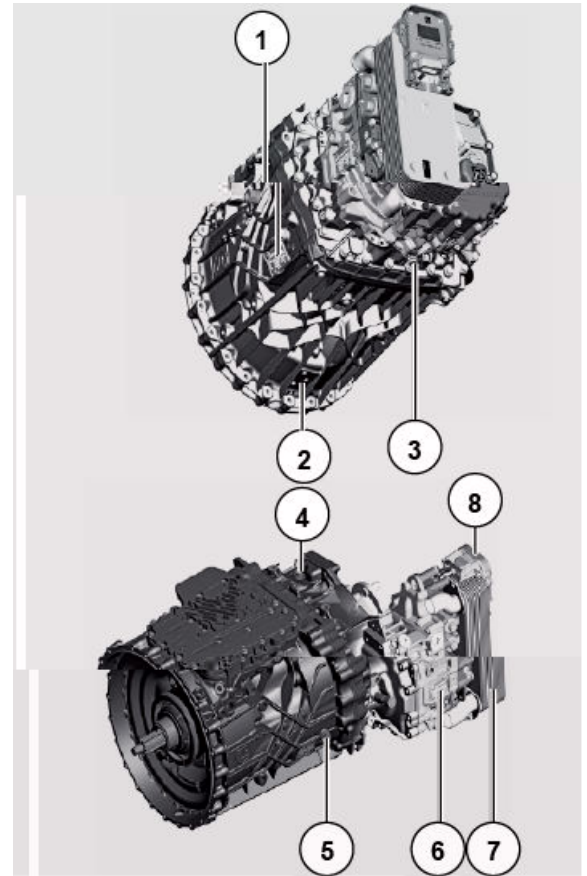
- If the transmission fluid of the transmission to be repaired contains water, all molybdenum-coated components, including synchronizer rings, shift forks, and transmission brakes, must be replaced. Failure to do so may result in unforeseeable consequences during vehicle operation and even lead to severe accidents.
- Contact with hot transmission or hot transmission fluid may cause scalding. Appropriate protective clothing, protective gloves and protective glasses/face shields are recommended.

ZF

Oil



ZF transmission oil change and precautions

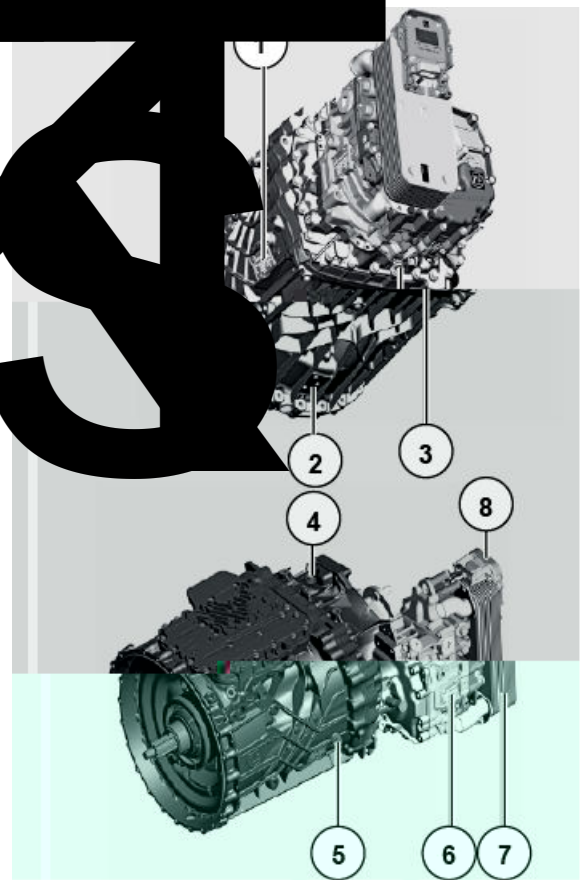


ZF transmission oil change and precautions

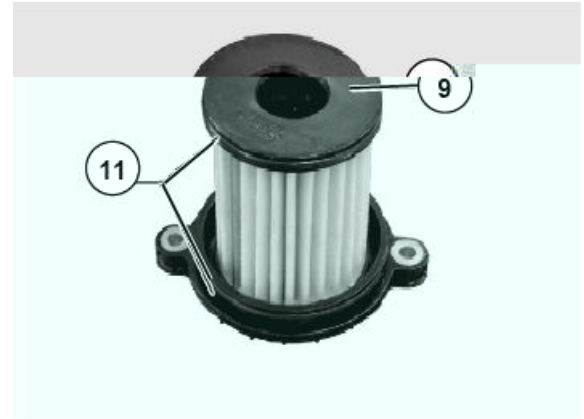
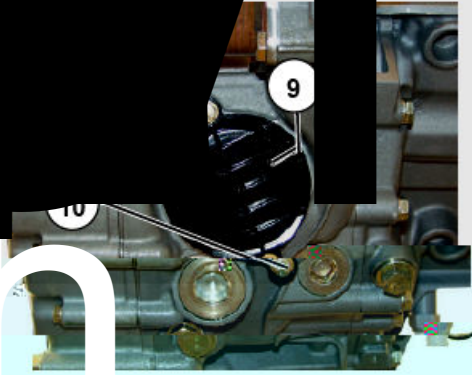
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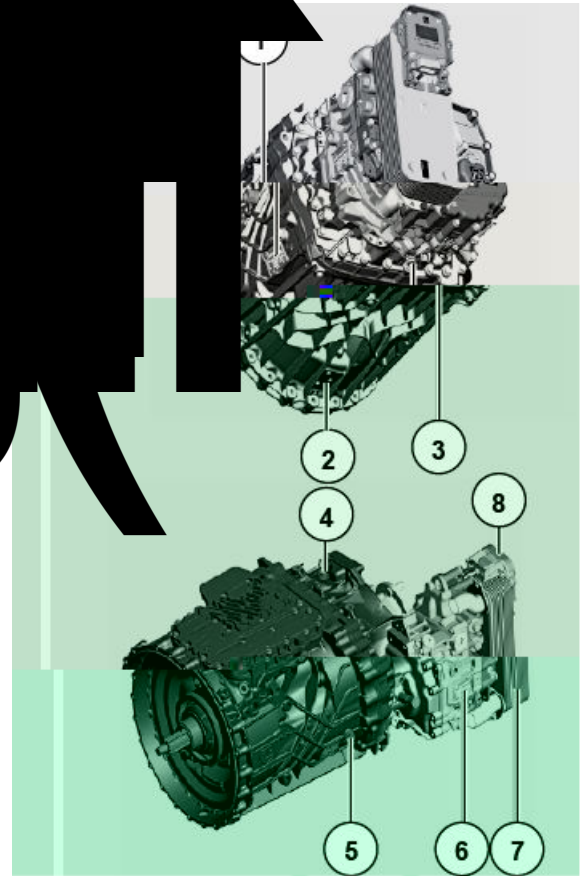
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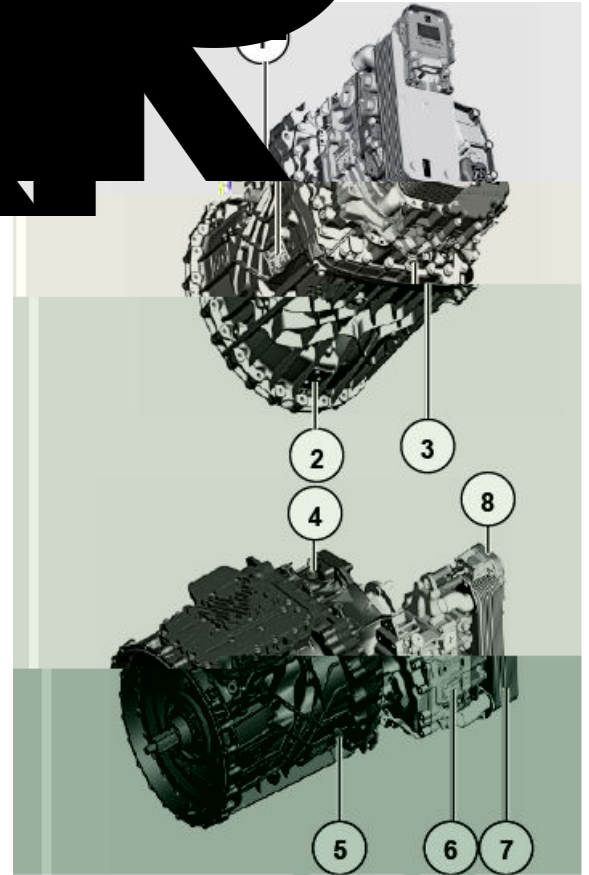
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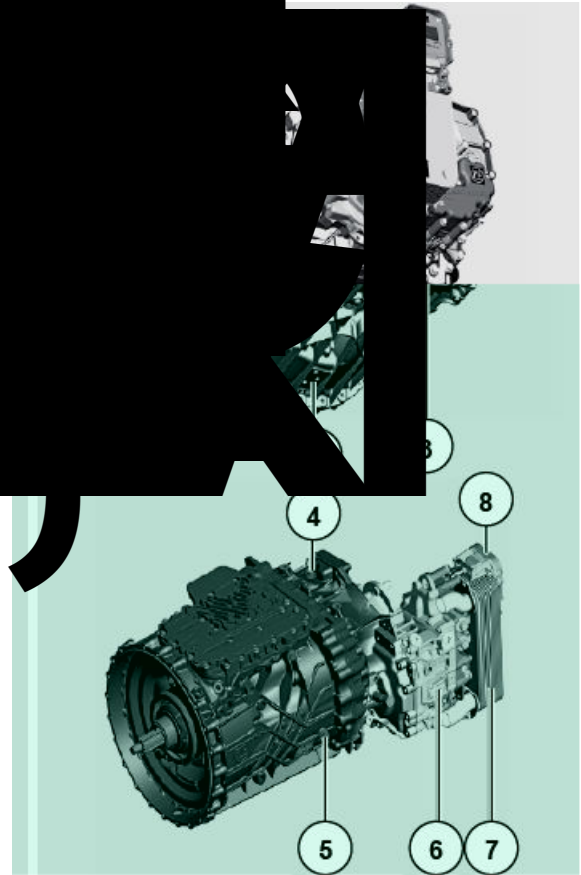


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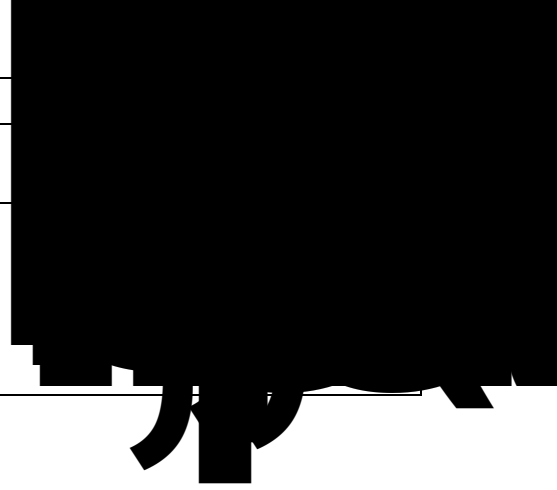


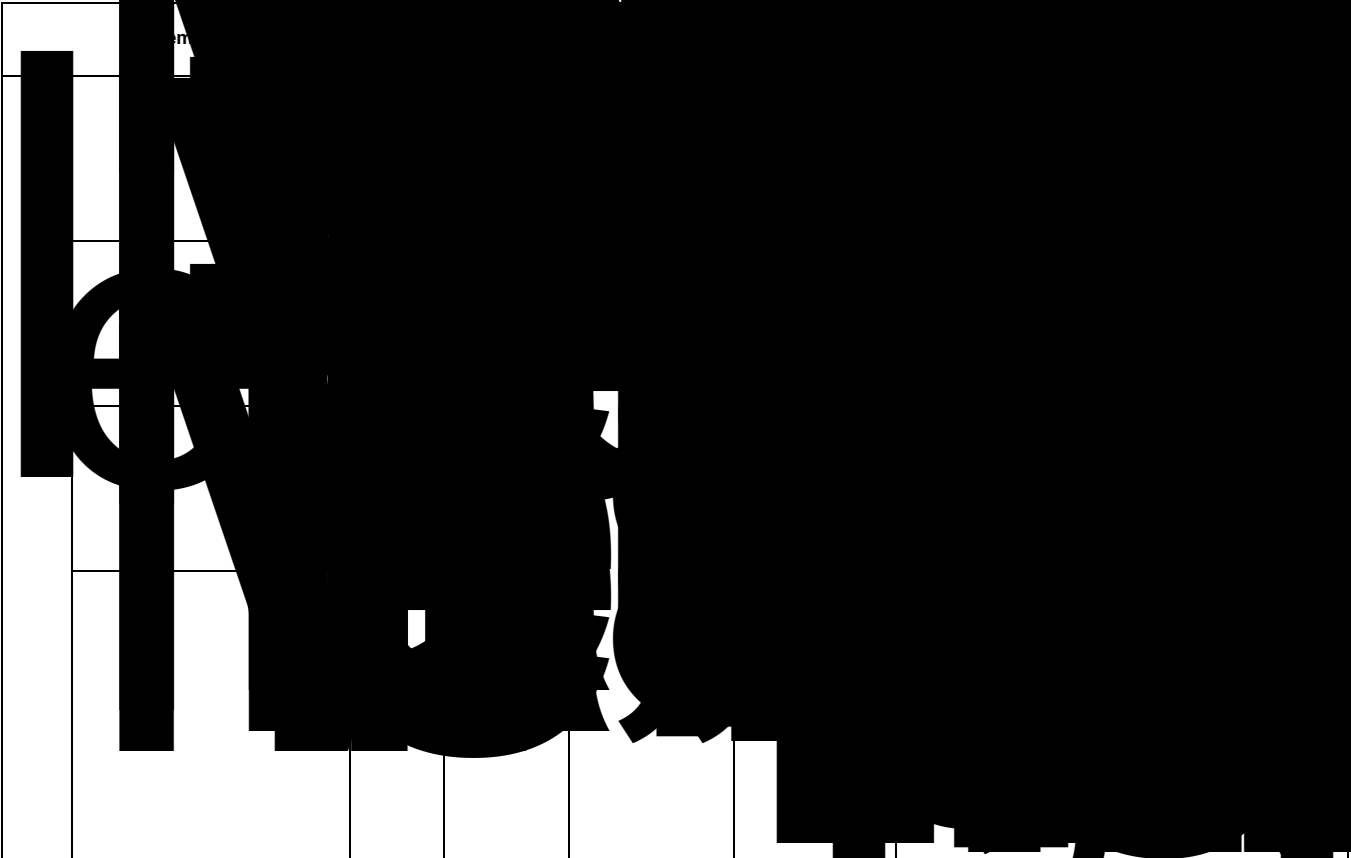
Fast transmission oil and oil change cycle

Assembly and model		Filling amount	Product name	Mileage or time replacement	Replacement interval mileage or time

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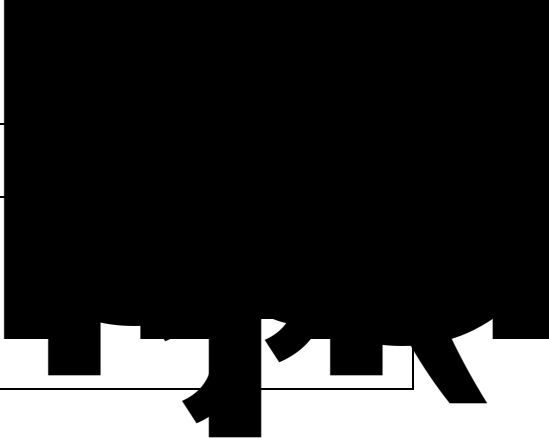
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Vertical text on the left side of the graph, possibly a label or axis title.

Vertical text on the right side of the graph, possibly a label or axis title.

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	Assembly	Filling amount	Product name	Mileage or time replacement	Replacement interval mileage or time	



Change and change precautions of Fast transmission oil
Fast F16JZ Series Transmission Maintenance



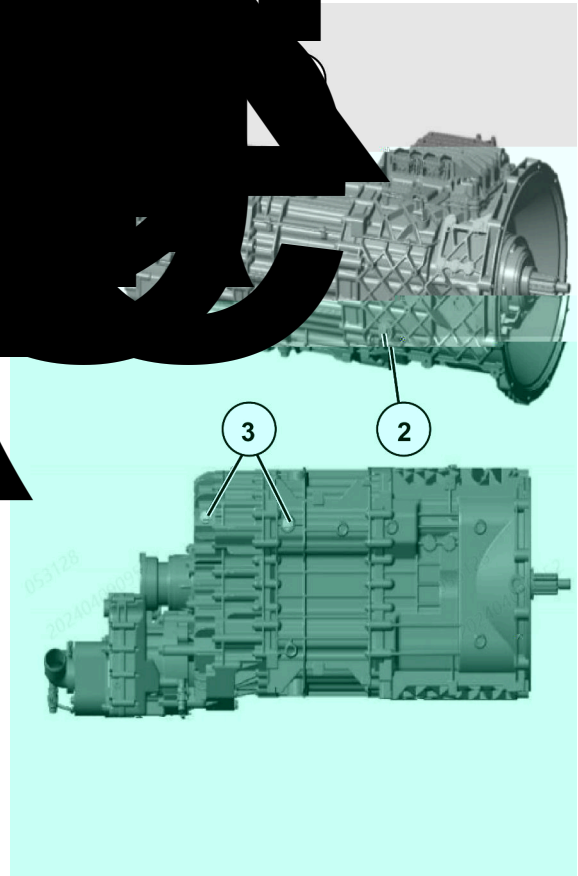
Change

Oil drain



CAUTION

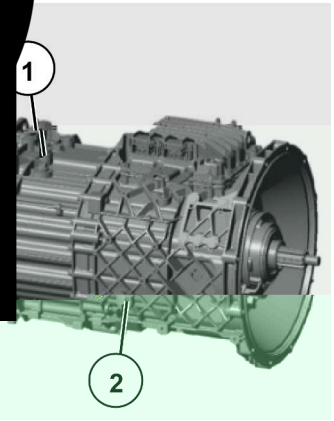
- The transmission has two drain plugs, both of which need to be unscrewed when draining the oil.
- Waste lubricating oil must not be dumped indiscriminately; it must undergo non-hazardous treatment.



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of Fast transmission oil

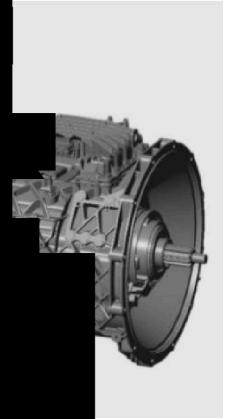
Oil



CAUTION!

Before filling lubricating oil, make sure that the vehicle or transmission is level and has no roll.

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CAUTION!

Do not check the oil level immediately after the vehicle has been in operation. Wait until the oil level stabilizes; the oil level should only be checked once the lubricating oil has cooled (temperature not exceeding 40°C).

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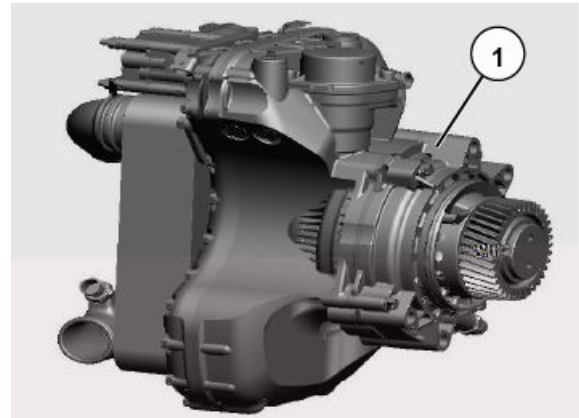
CAUTION!

- When changing the oil, the vehicle shall be parked in a horizontal position and the parking brake shall be applied.
- The oil temperature reaches the working temperature (greater than 60).
- Turn off the retarder.
- Switch off the key switch.



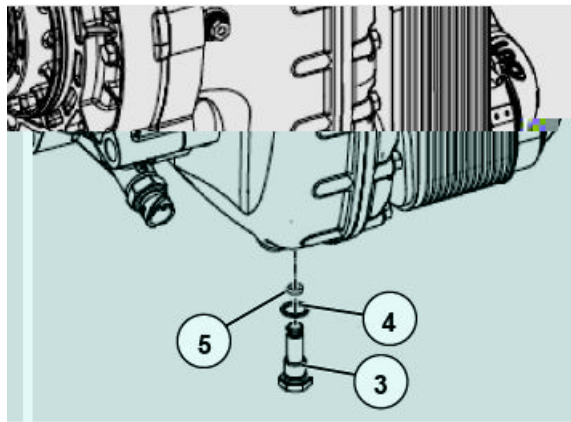
WARNING!

The oil flowing out and the screw plug are hot! They can cause burns. Please operate carefully and wear protective equipment such as gloves if necessary.





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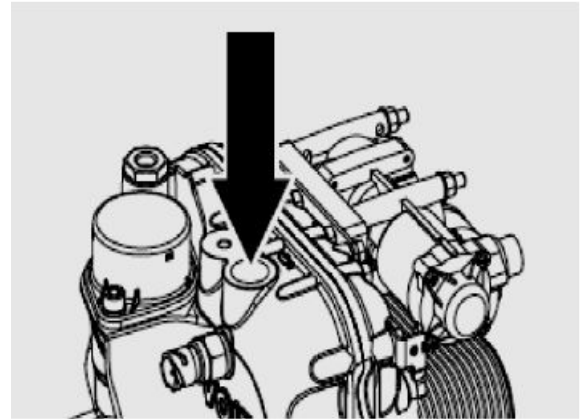
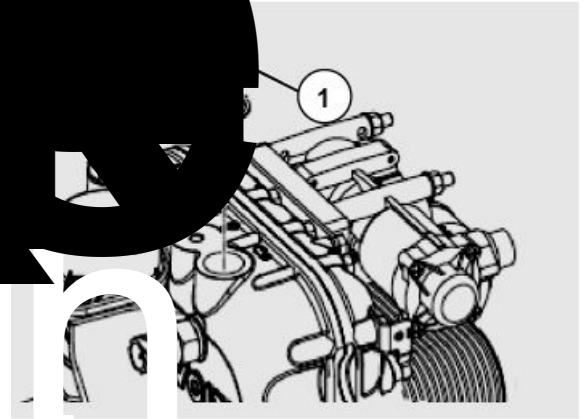
Oil



WARNING

–Only oils, lubricants and accessories approved by SINOTRUK can be used to ensure vehicle safety and retarder function.

–For damage caused by changing the retarder or its oil and lubricant, and using accessories, accessories, additional devices and special equipment not approved by SINOTRUK, SINOTRUK only provides paid services.



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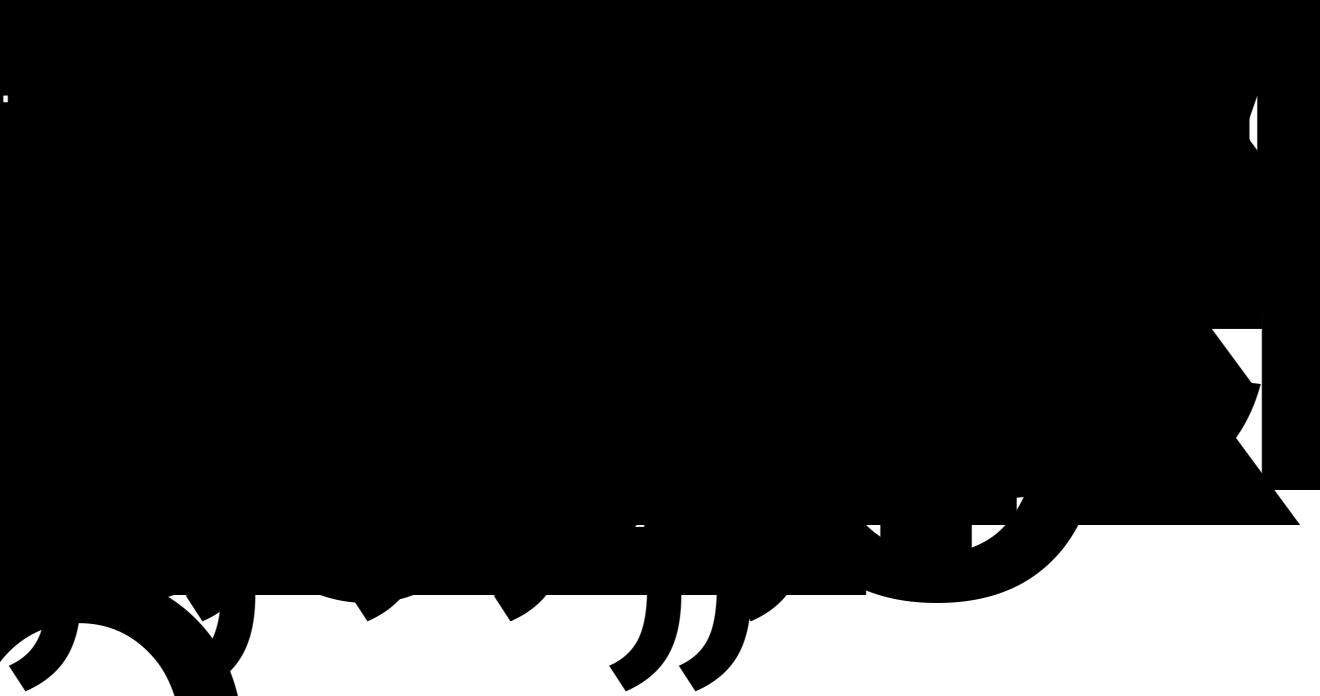
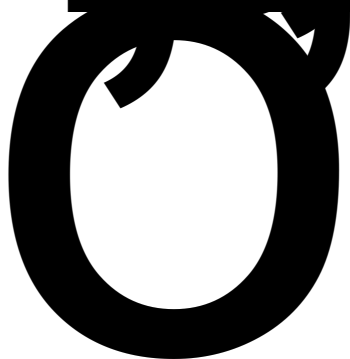
Check Level

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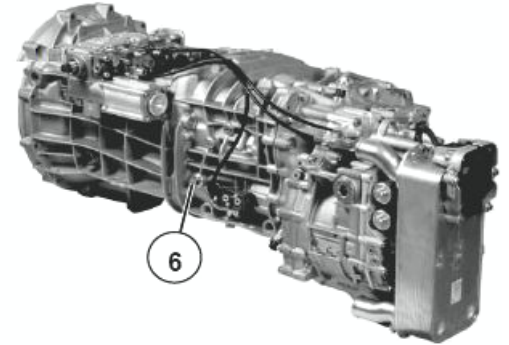
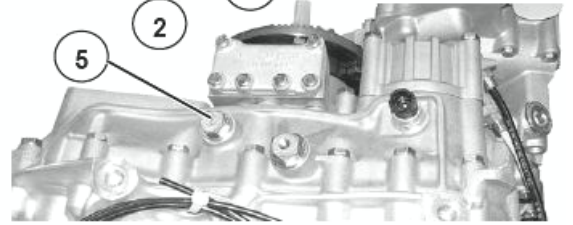
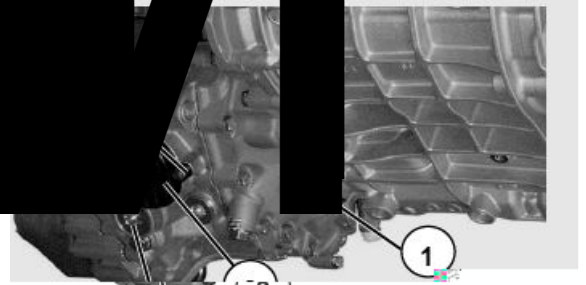
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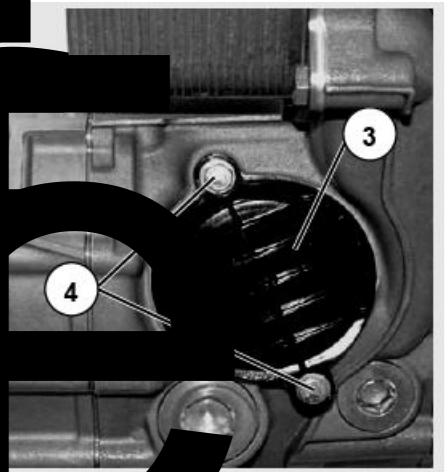
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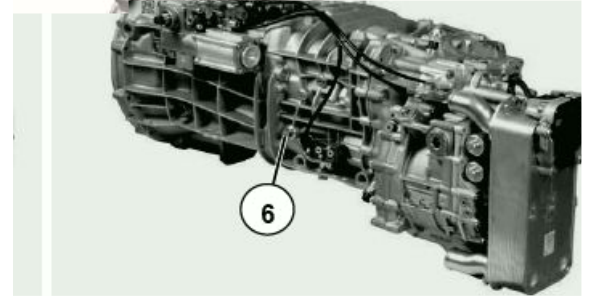
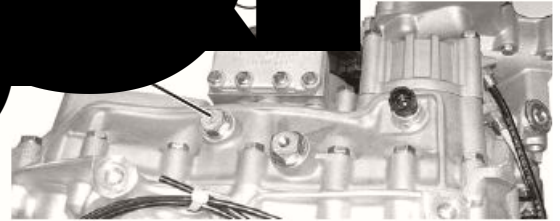
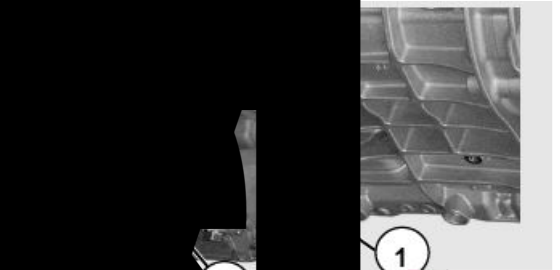


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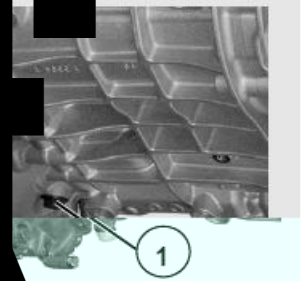


CAUTION
Check the oil level after driving to ensure correct filling volume. If the vehicle is equipped with a split heat exchanger, check it after 5 minutes of test run to prevent the heat exchanger from idling.



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WARNING!

Insufficient oil in the transmission can cause transmission damage and accident hazard!



WARNING!

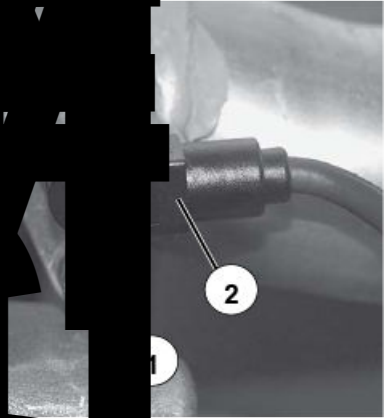
Insufficient oil volume in retarder will lead to retarder fault, braking torque reduction or failure. Please switch on other auxiliary braking devices and contact a CNHTC service station for help.

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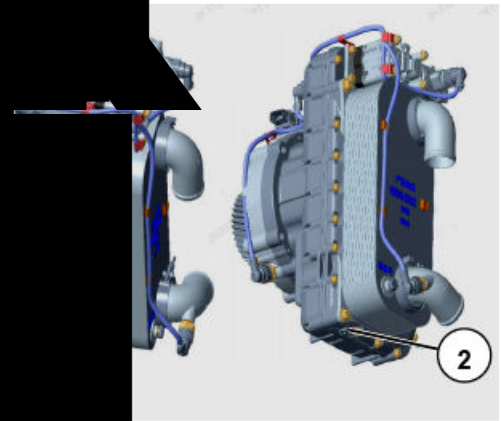
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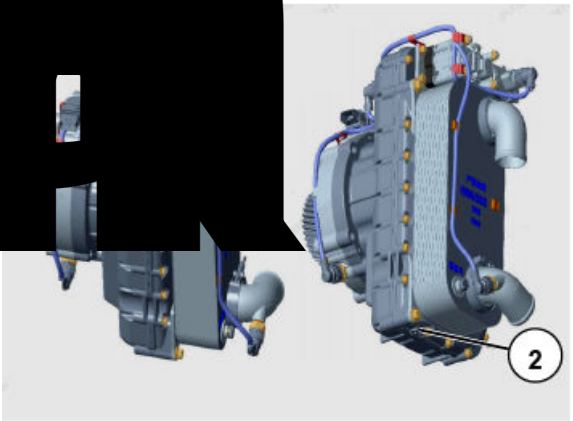
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Applicable models	Applicable		remarks

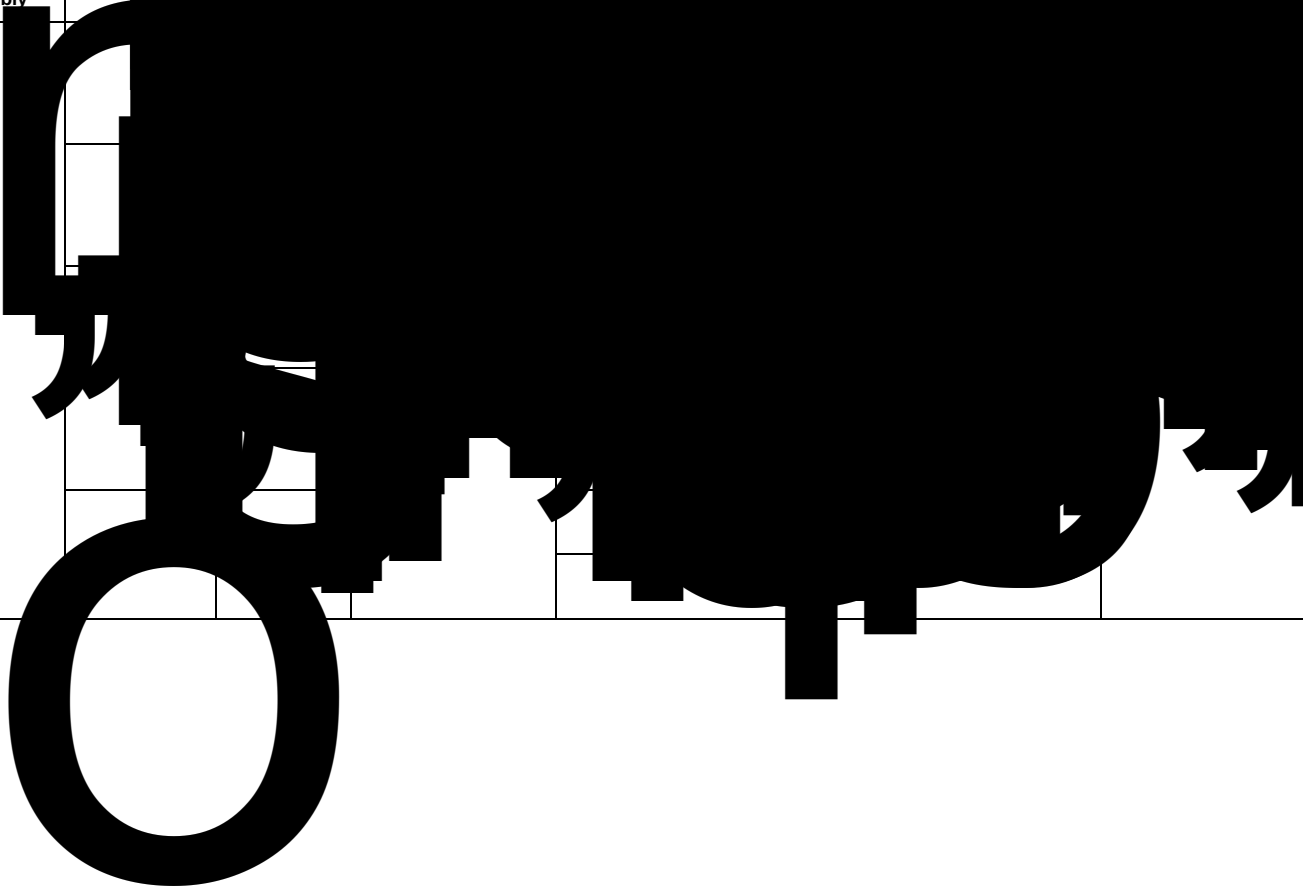
Recommended Consumption

Applicable models	
Vehicles for transport operation	
Municipal and sanitation vehicles	
Vehicles for lifting, fire fighting and pumping	
Oilfield/pavement truck and cement mixer truck	
Urban construction slag dump truck	
Road transport dump truck	
Pithead dump truck and truck under super load working condition	
Mine site vehicle	

Maintenance

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CAUTION

- The clearance of all rotating parts shall be checked during the first and regular maintenance, such as the steering tie rod and drag link ball head. The rotating parts with excessive clearance shall be replaced.
- Grease shall be added to related parts during each regular maintenance.

Driven axle hub bearing greases

Driven axle hub bearing greases

Recommendations

Application models				
Long-distance tractor and cargo truck				

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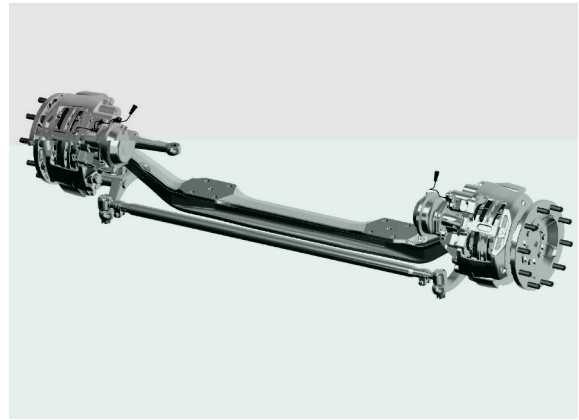
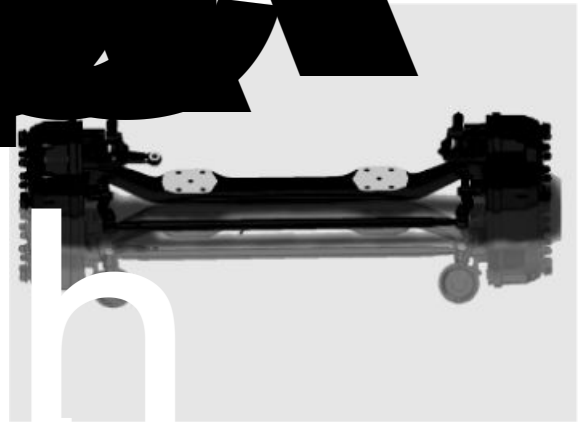


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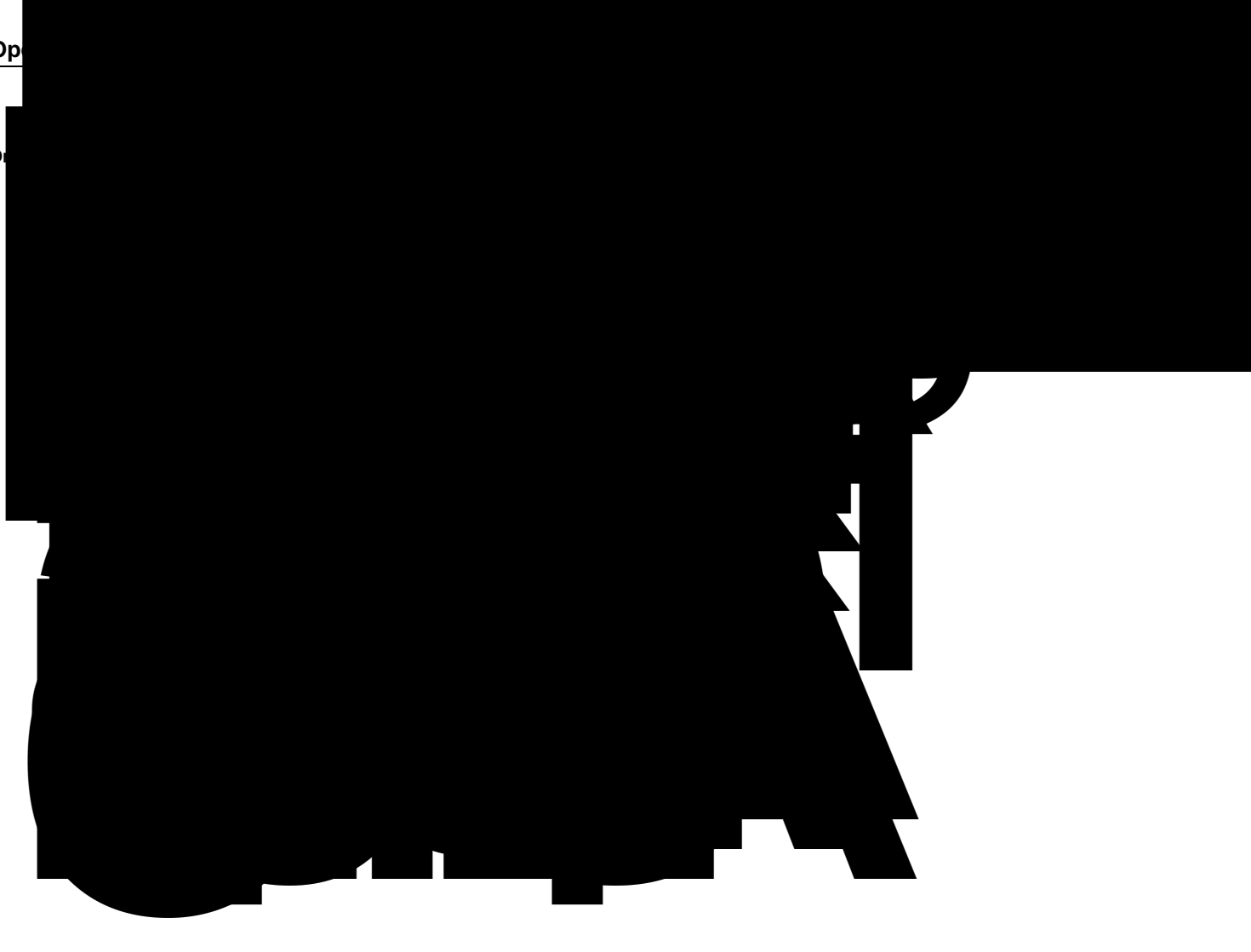
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Self-made driver's license

Application models														
Long-distance tractor and cargo truck														

Self-made drive axle oil and placement

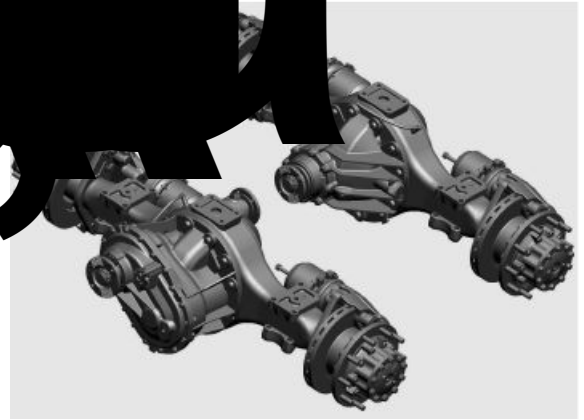
Recommended	Consumption	
Applicable models		
Vehicles for transport operation		
Municipal and sanitation vehicles		
Vehicles for lifting, fire fighting and pumping		
Oilfield/pavement truck and cement mixer truck		
Urban construction slag dump truck		
Road transport dump truck		
Pithead dump truck and truck under super load working condition		
Mine site vehicle		

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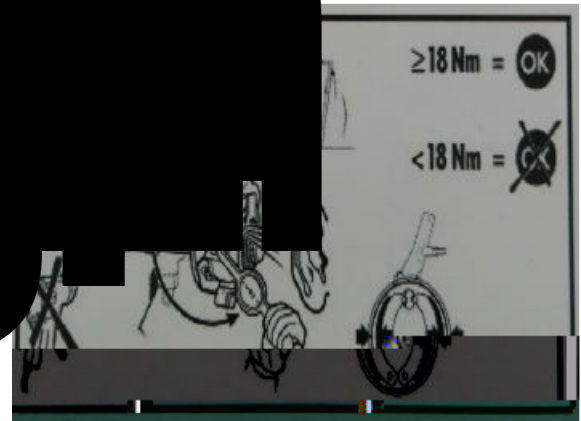
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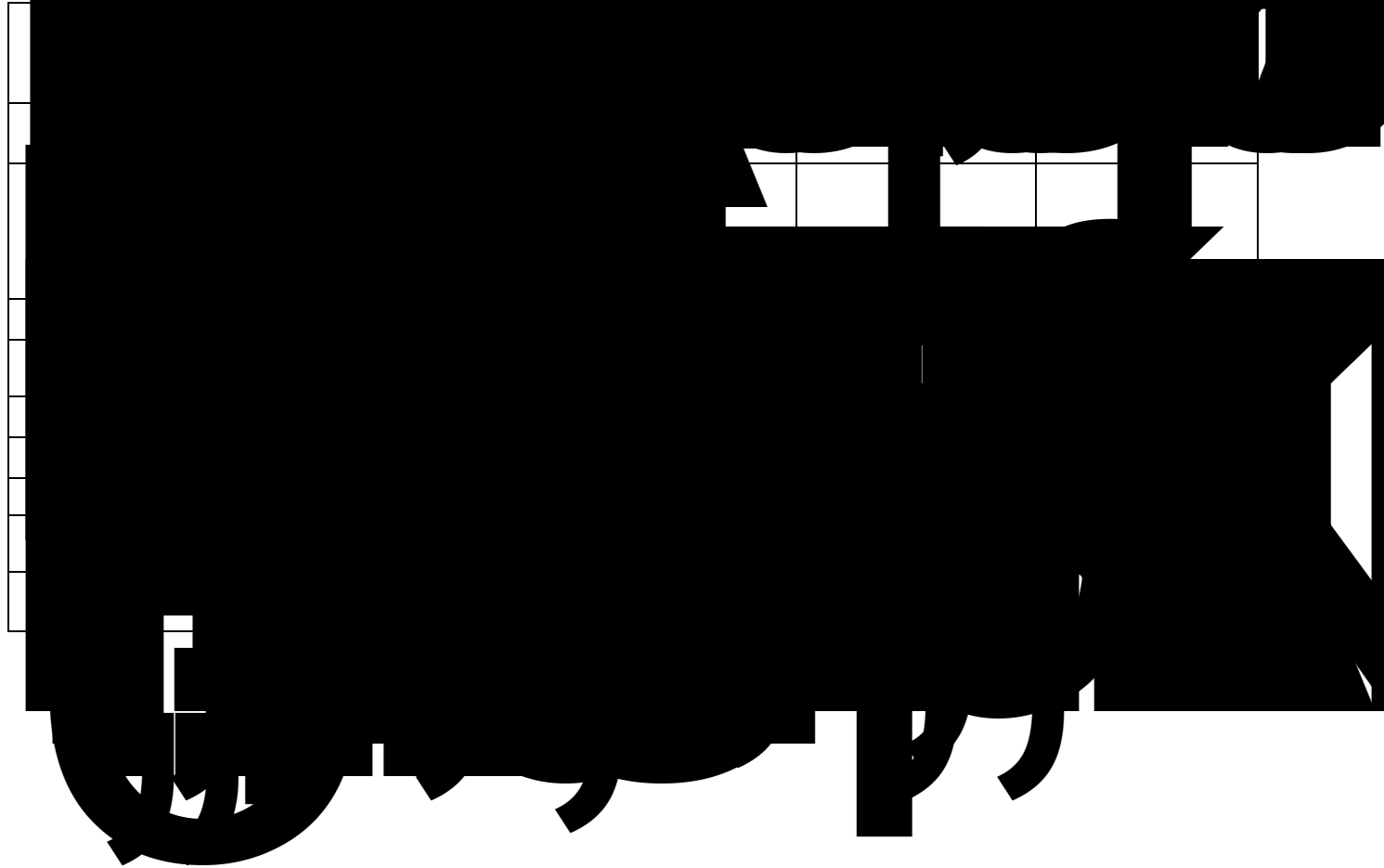
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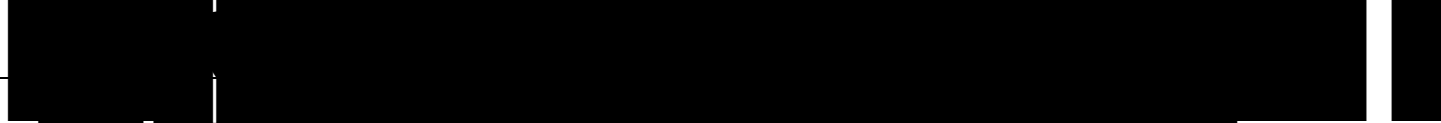
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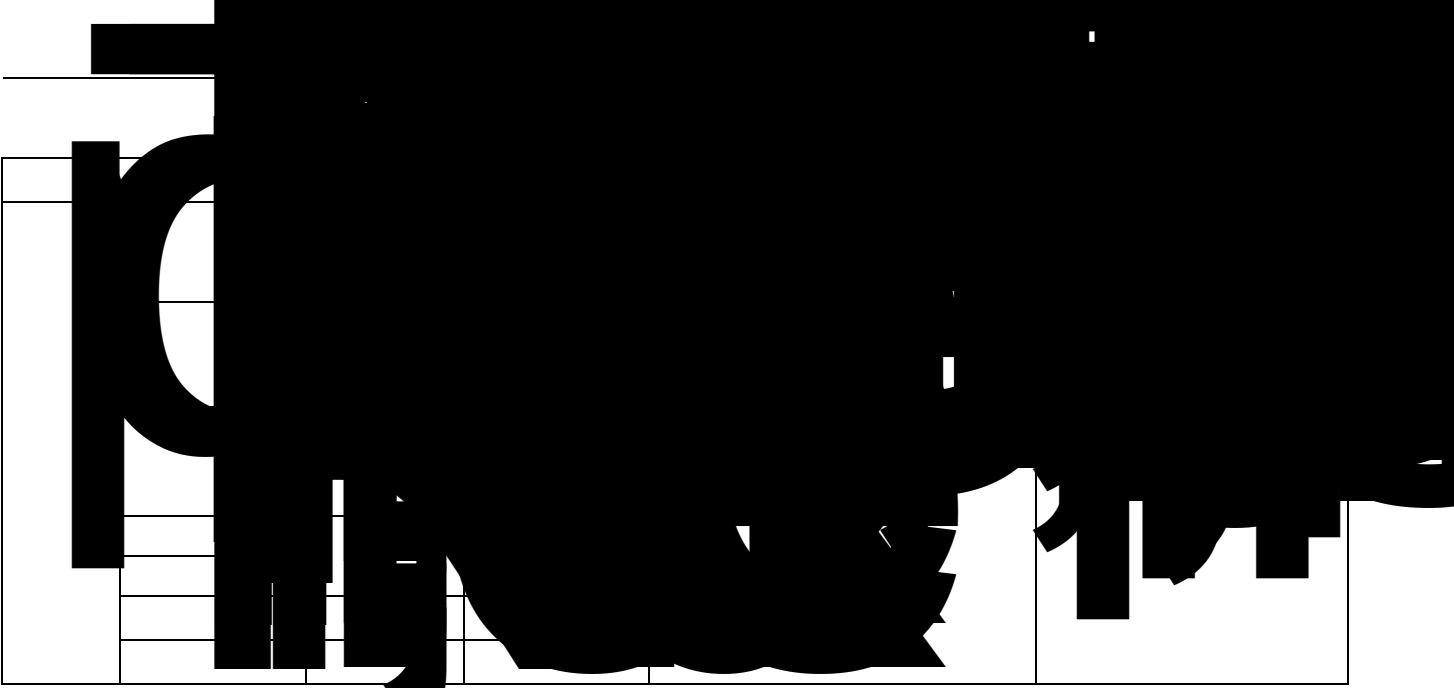


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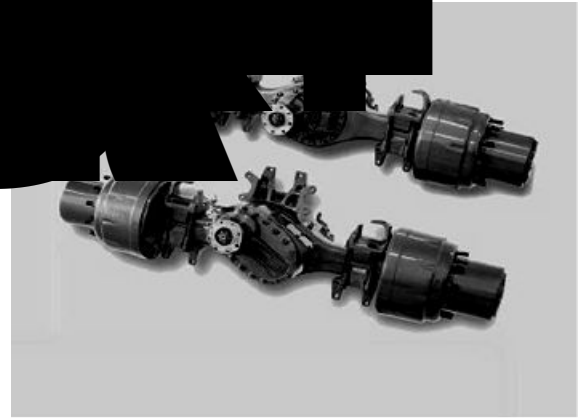
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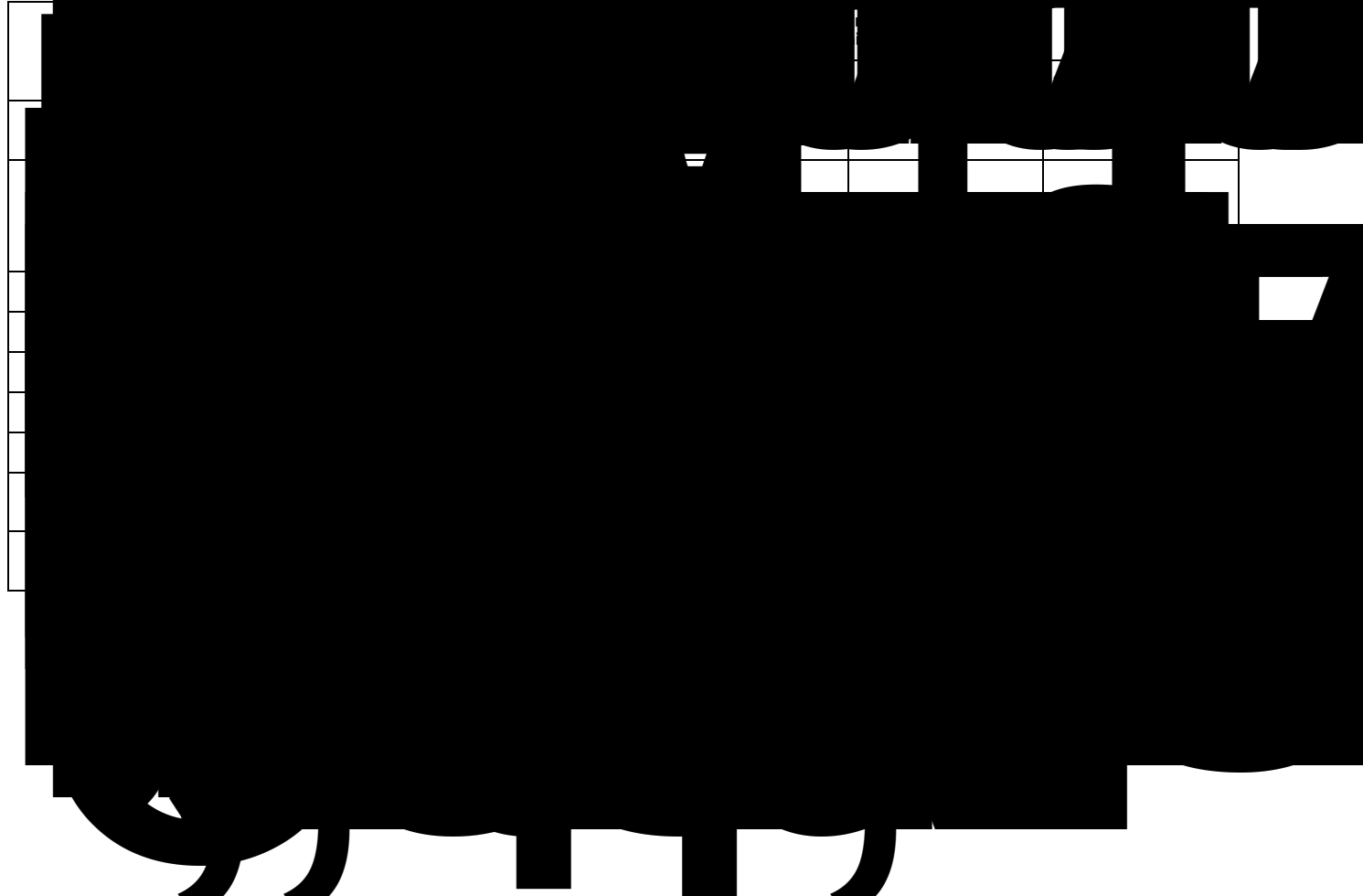
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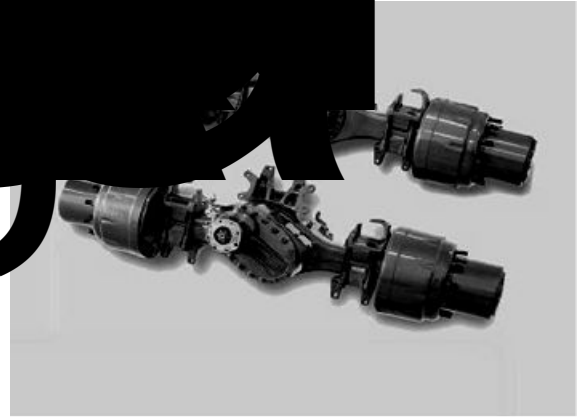
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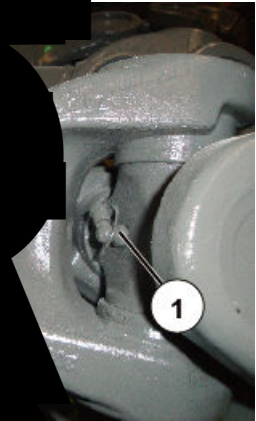


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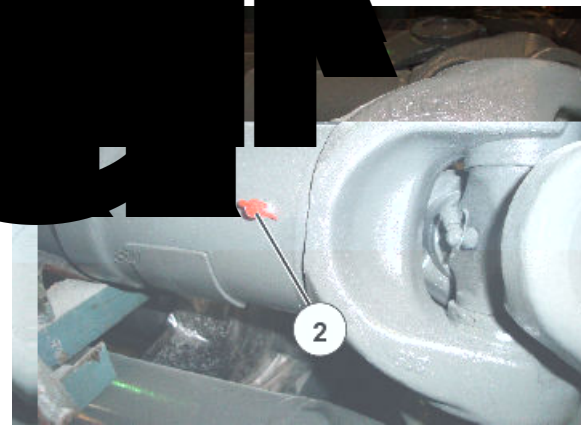
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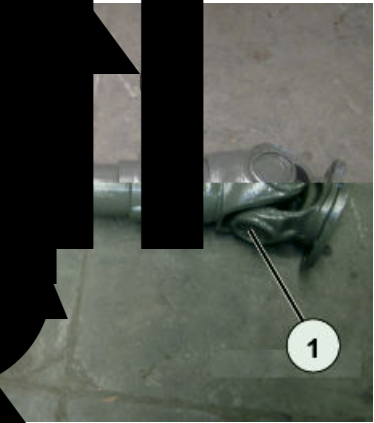
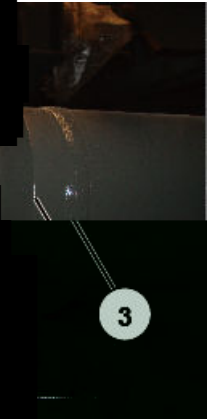
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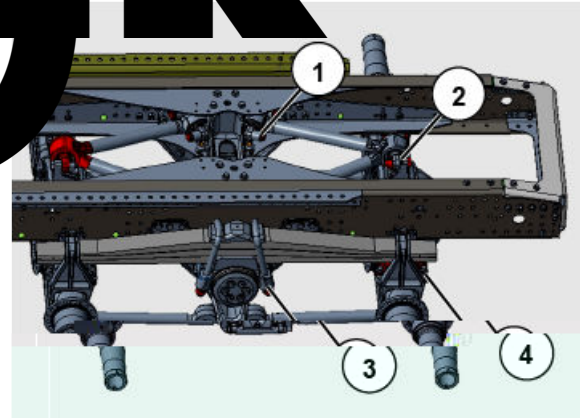
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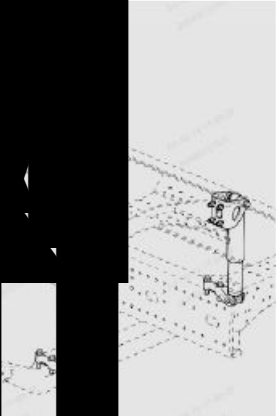
WARNING!

–It is not allowed to change the number of leaf springs, use leaf springs of different thickness and change the suspension structure without authorization.

–It is not allowed to use parts other than those manufactured by our Company, modified parts or substitute parts; otherwise it may cause damage to parts and vehicle out of control, resulting in personal injury or property loss!

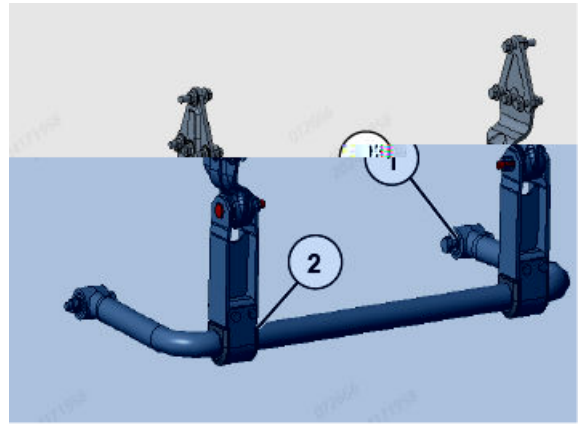
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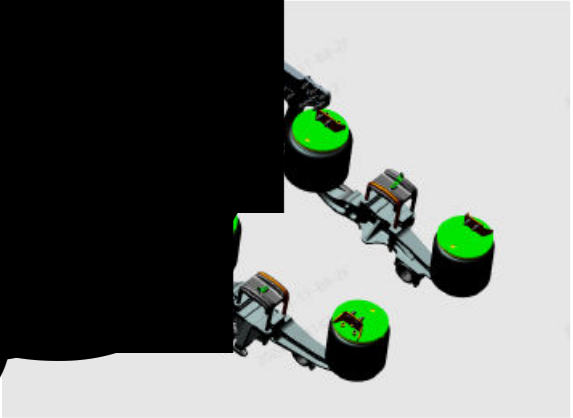
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Balance of air suspension

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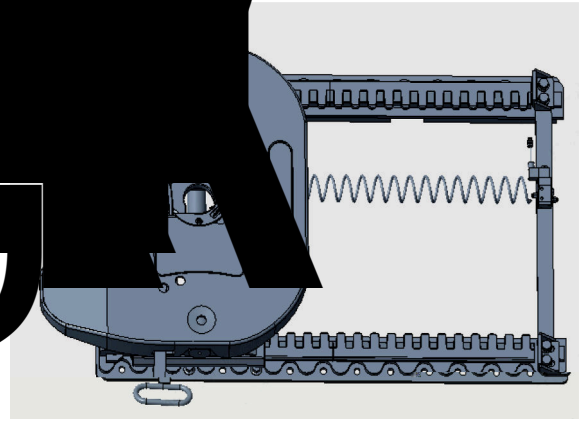
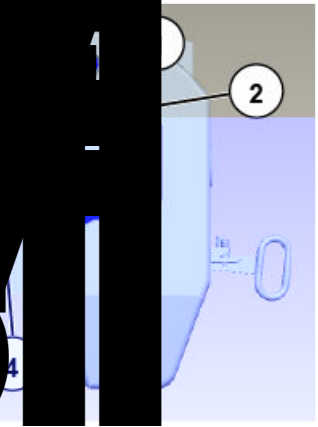
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Assembly																			
Engine																			

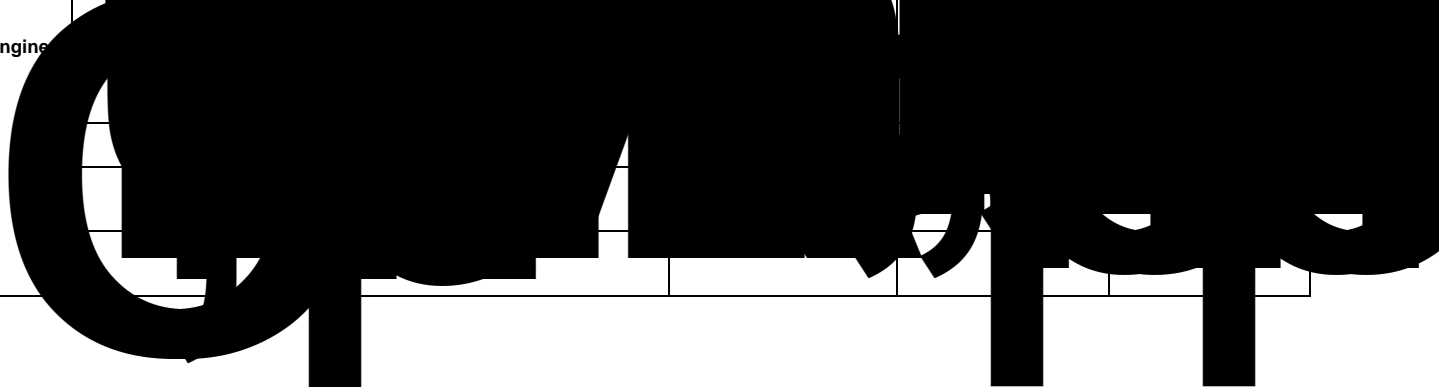
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Engine																																							



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Chassis main

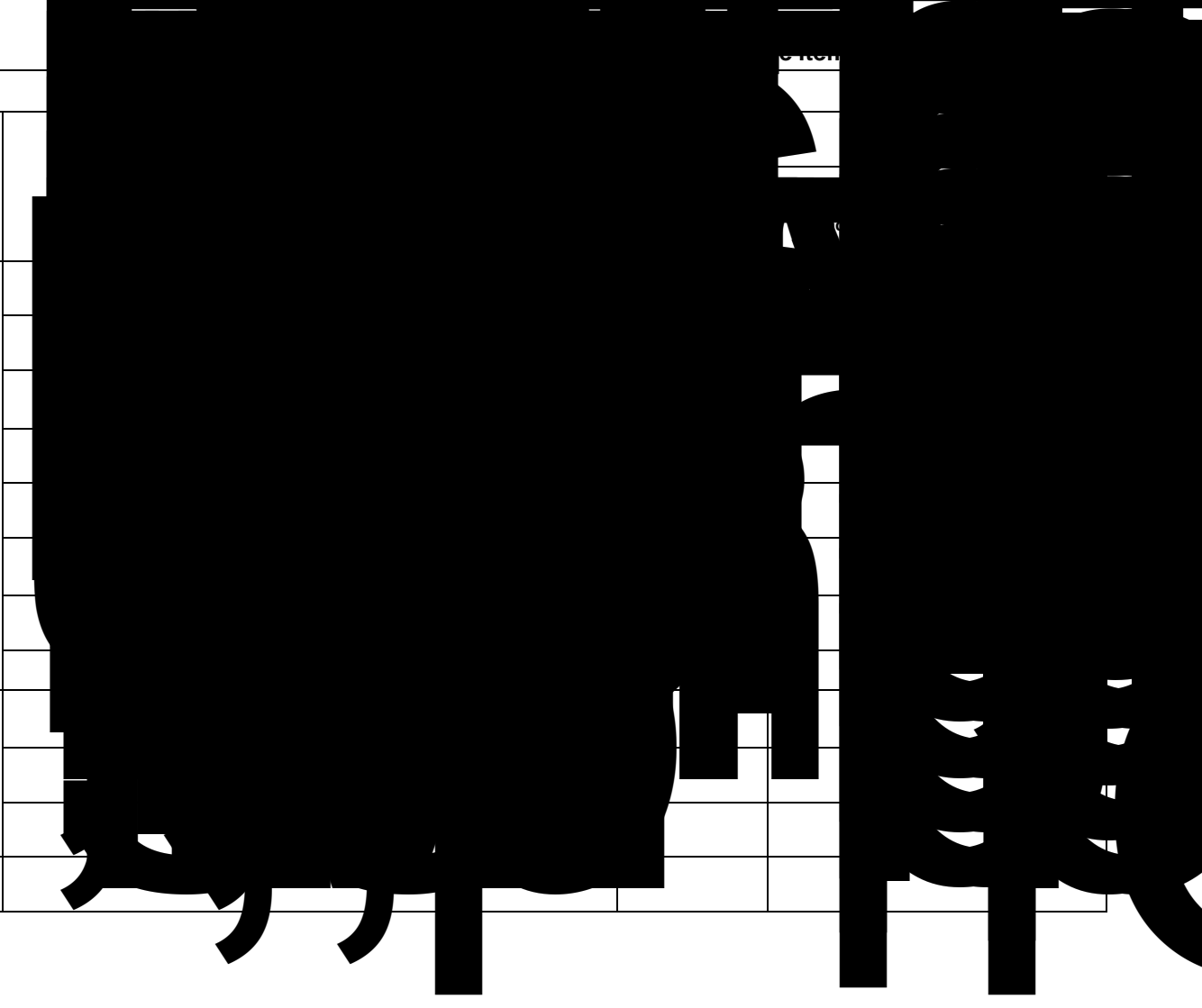
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Assembly

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Transmission shaft

Chassis



Chassis main

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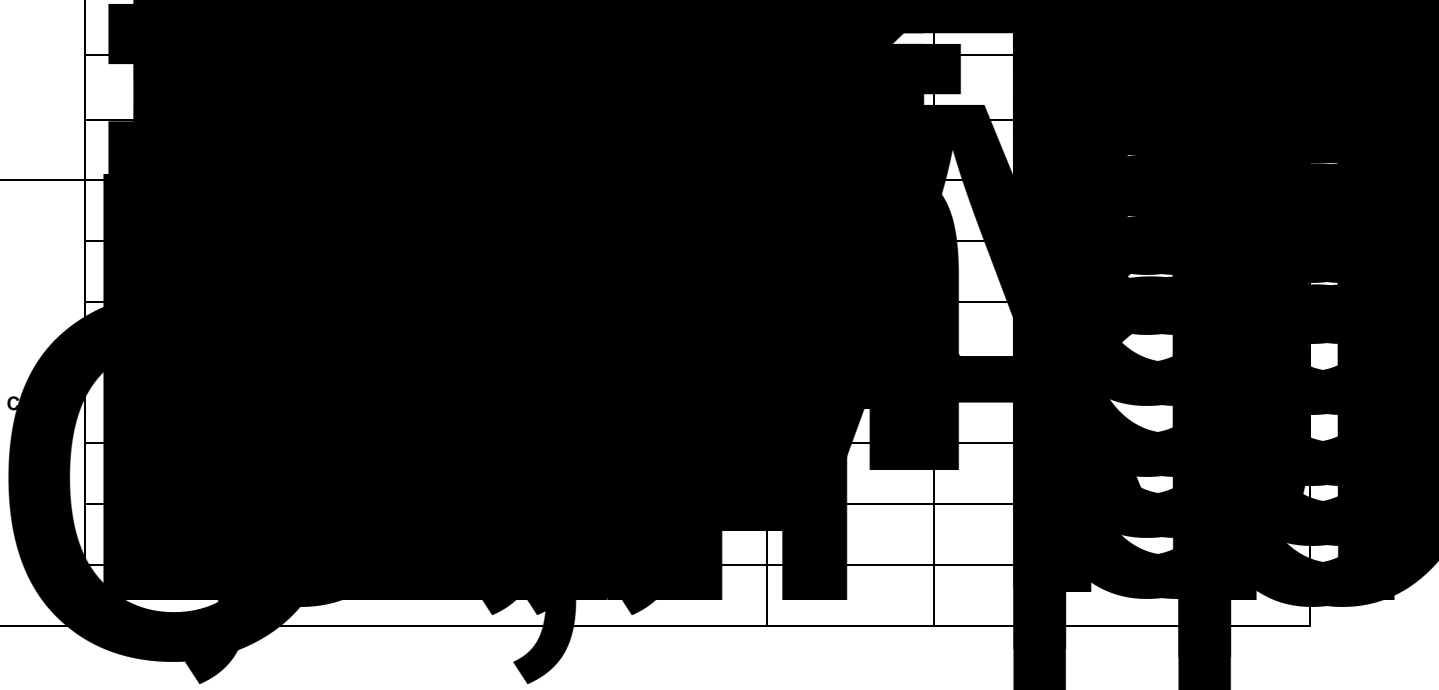
Brake system

Electric appliances and electronic control system



Chassis main

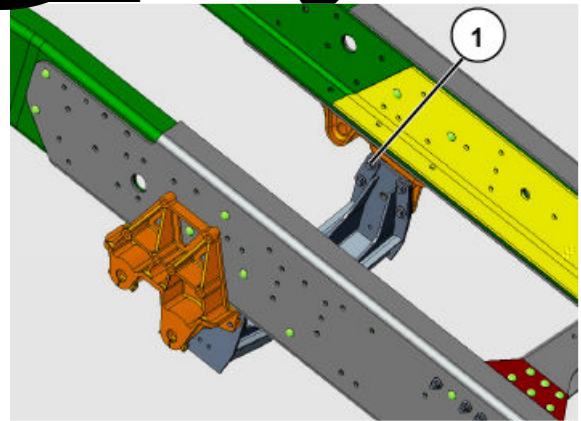
Assembly	[REDACTED]	e ge	Regu Road vehicl
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
c	[REDACTED]	[REDACTED]	[REDACTED]



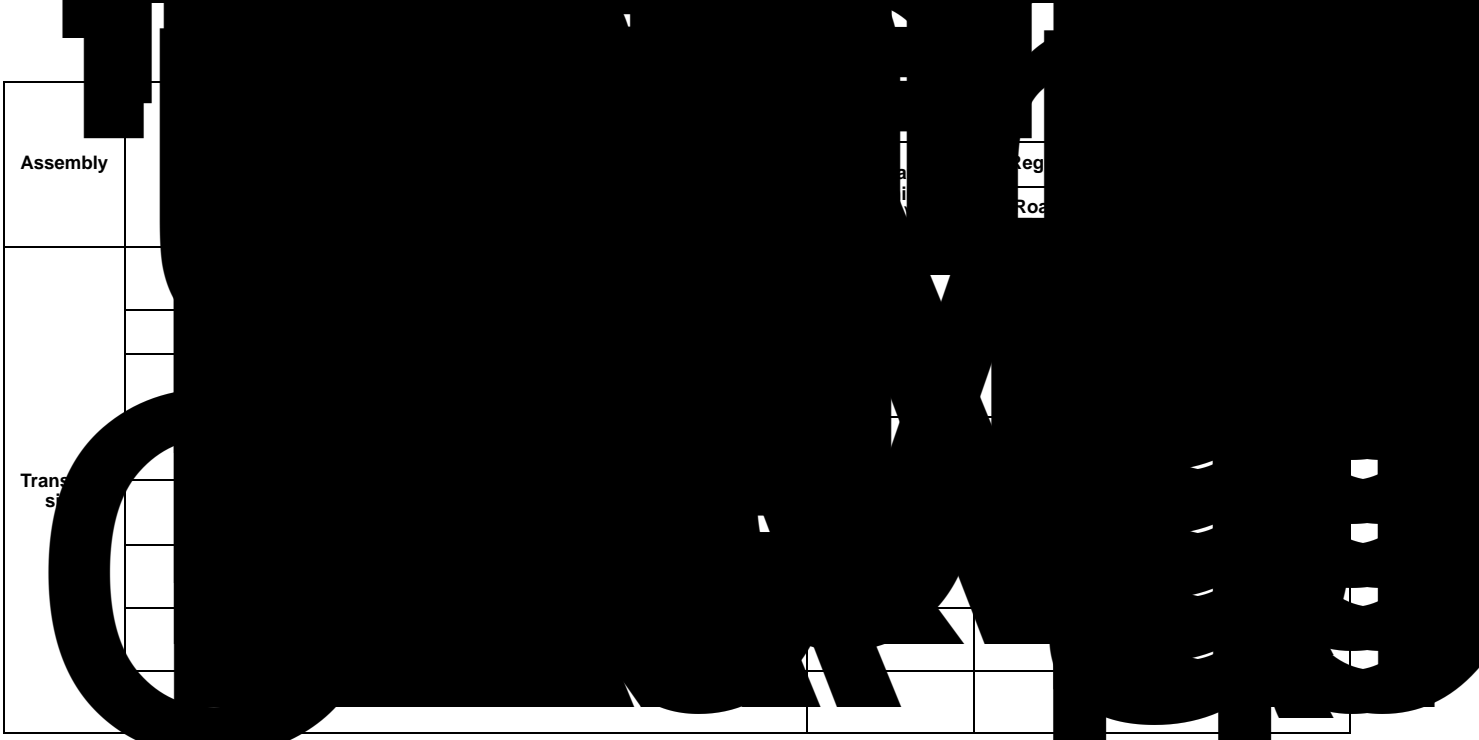
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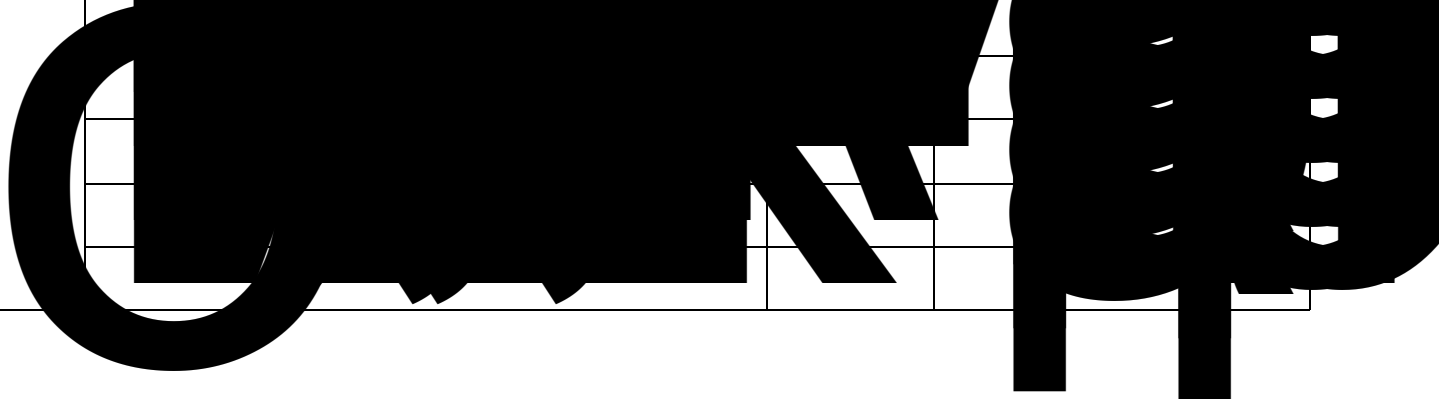
Assembly	Maintenance items	First maintenance	Regular maintenance	
		First maintenance mileage (km)	Regular maintenance mileage (km)	
			Road vehicle	Off-road vehicles, cement mixer trucks



Chassis main

Assembly	
Front steering axle and steering gear	

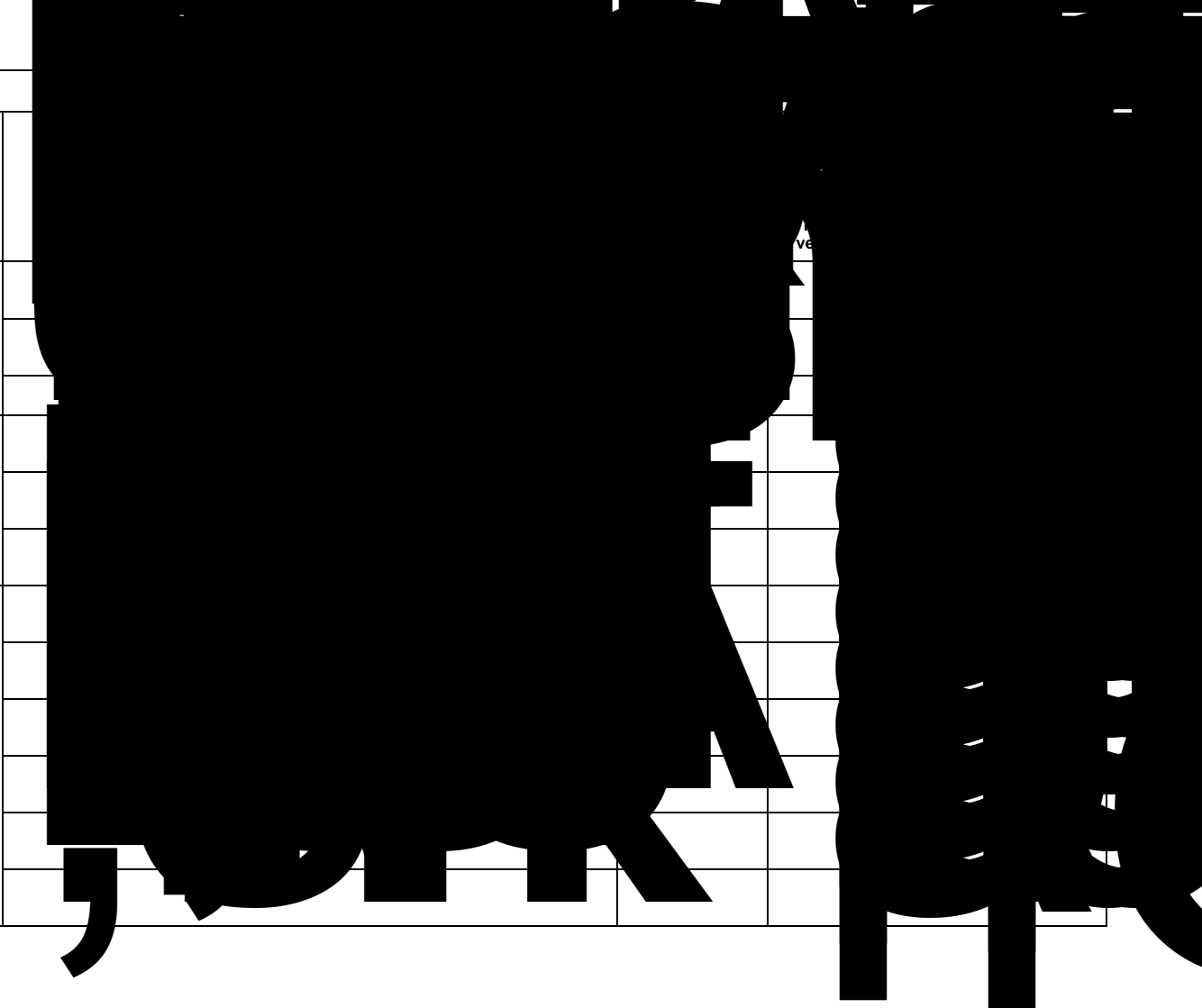
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Assembly

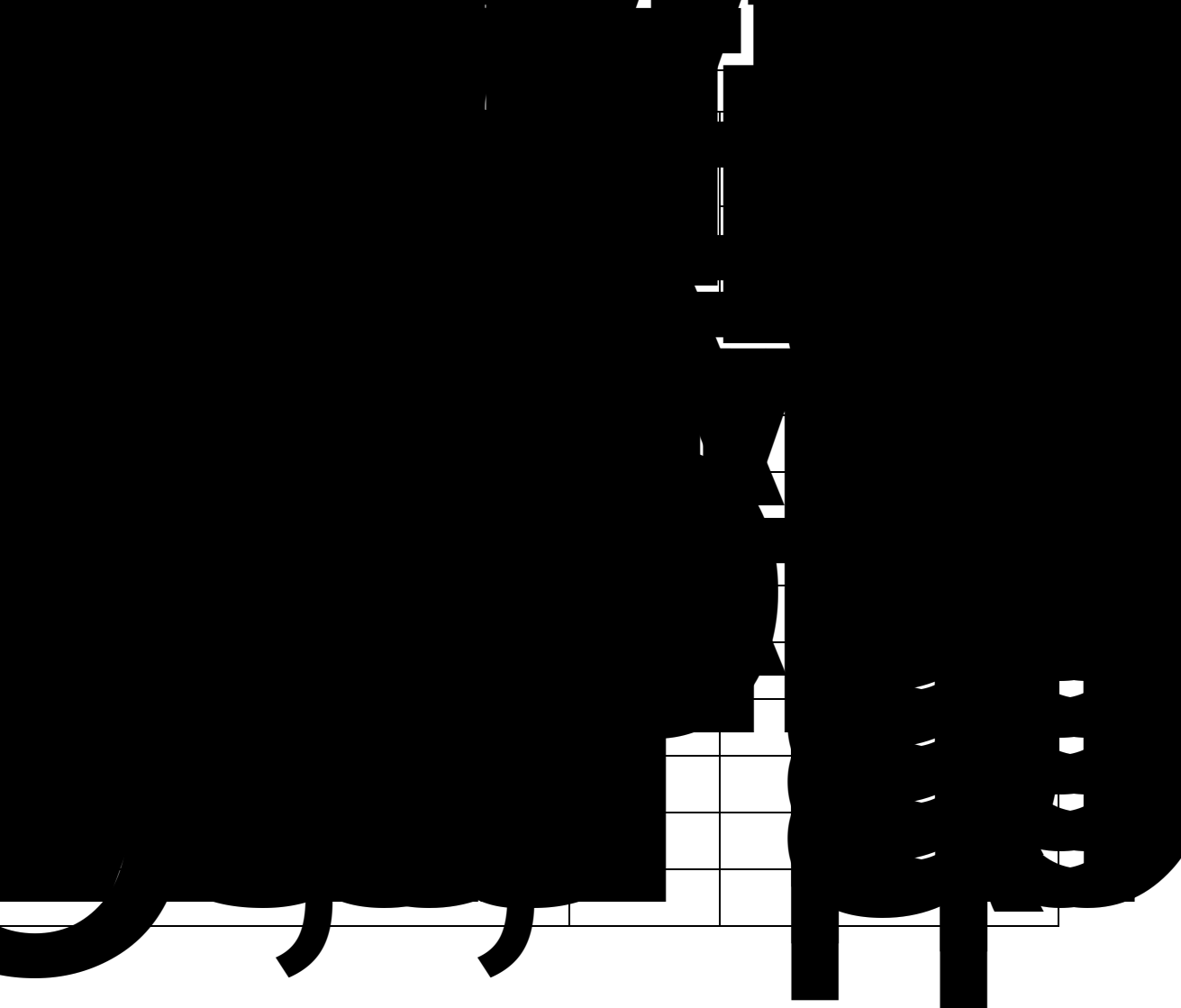
Drive shaft

Chassis



Chassis main

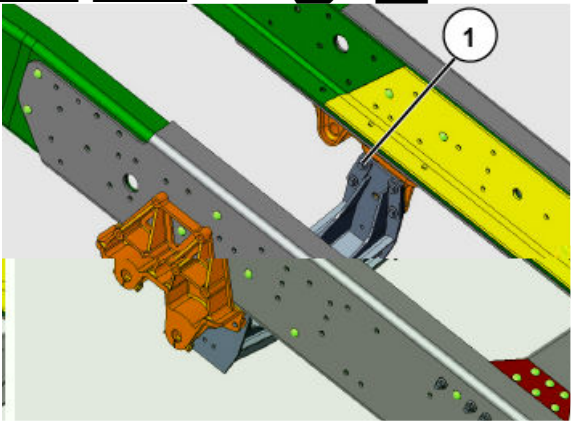
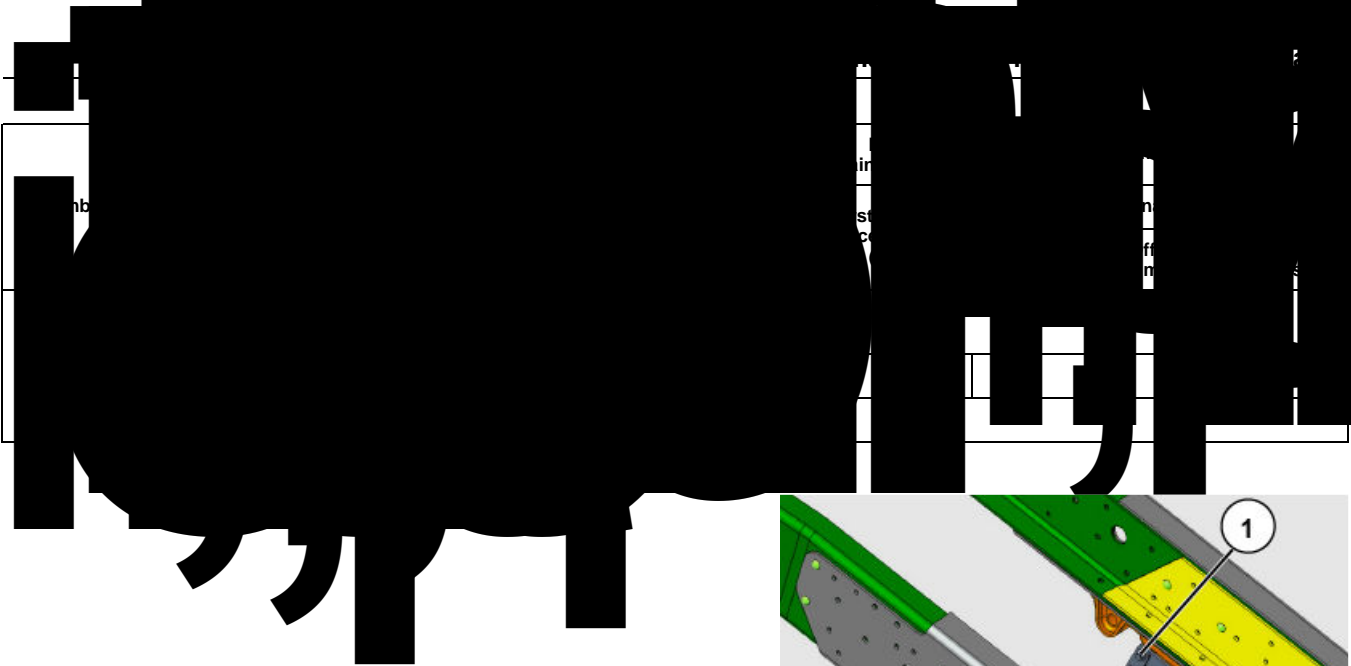
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Assembly	Maintenance items	First maintenance	Regular maintenance	
		First maintenance mileage (km)	Regular maintenance mileage (km)	
			Road vehicle	Off-road vehicles, cement mixer trucks



Assembly	[Redacted]
Cab	[Redacted]
Aftertreatment system	[Redacted]



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Safety instructions

Use of the battery



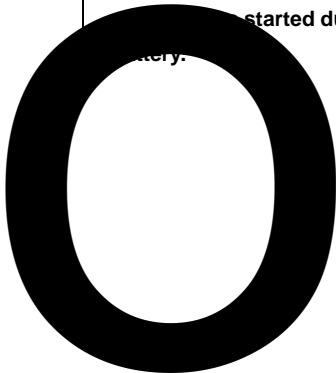
CAUTION!

–Avoid using automotive electric appliances for a long time when the engine of the vehicle is not working, such as interior floodlight, radio and tape player, as this may cause deep discharge of the battery, and vehicle start fault, and shorten the battery life.

–The natural leakage caused by the vehicle load cannot be avoided. Therefore, if the vehicle is to be parked for more than 10 days, the negative connection of the battery shall be disconnected to avoid the load leakage and protect the battery from deep discharge.

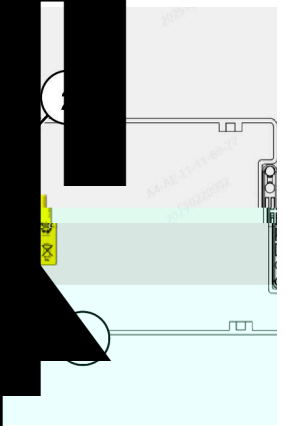
–If the battery has been used for more than 2 years, it is recommended to replace the battery whether it is still usable to prevent fault of the battery started due to natural fault of the

attery.



Safe

Instructions



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CAUTION

- Do not charge the battery that has a broken case, solidified electrolyte has or that shall be replaced.
- Battery charging shall be carried out in a well-ventilated environment.
- During the charging process, if the battery temperature exceeds 45 °C, the charging voltage shall be reduced appropriately or the charging shall be stopped. If acid overflows from the battery vent hole, stop charging immediately.

Compressed air reservoir

Safe

Use

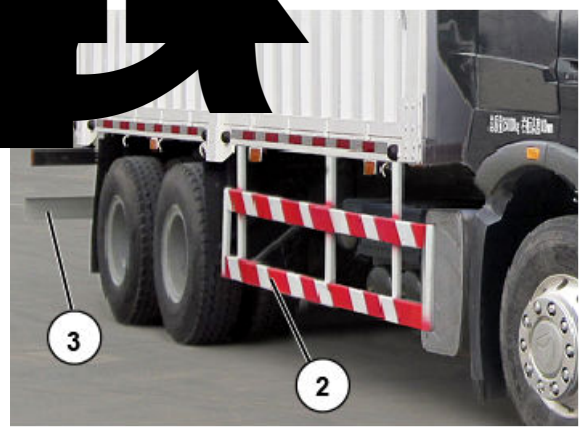
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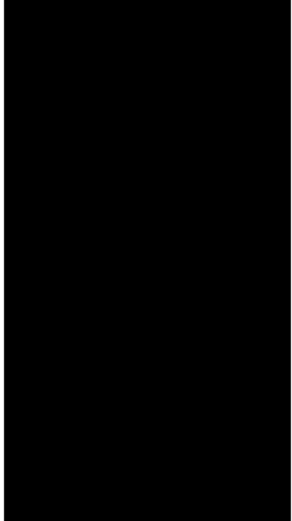


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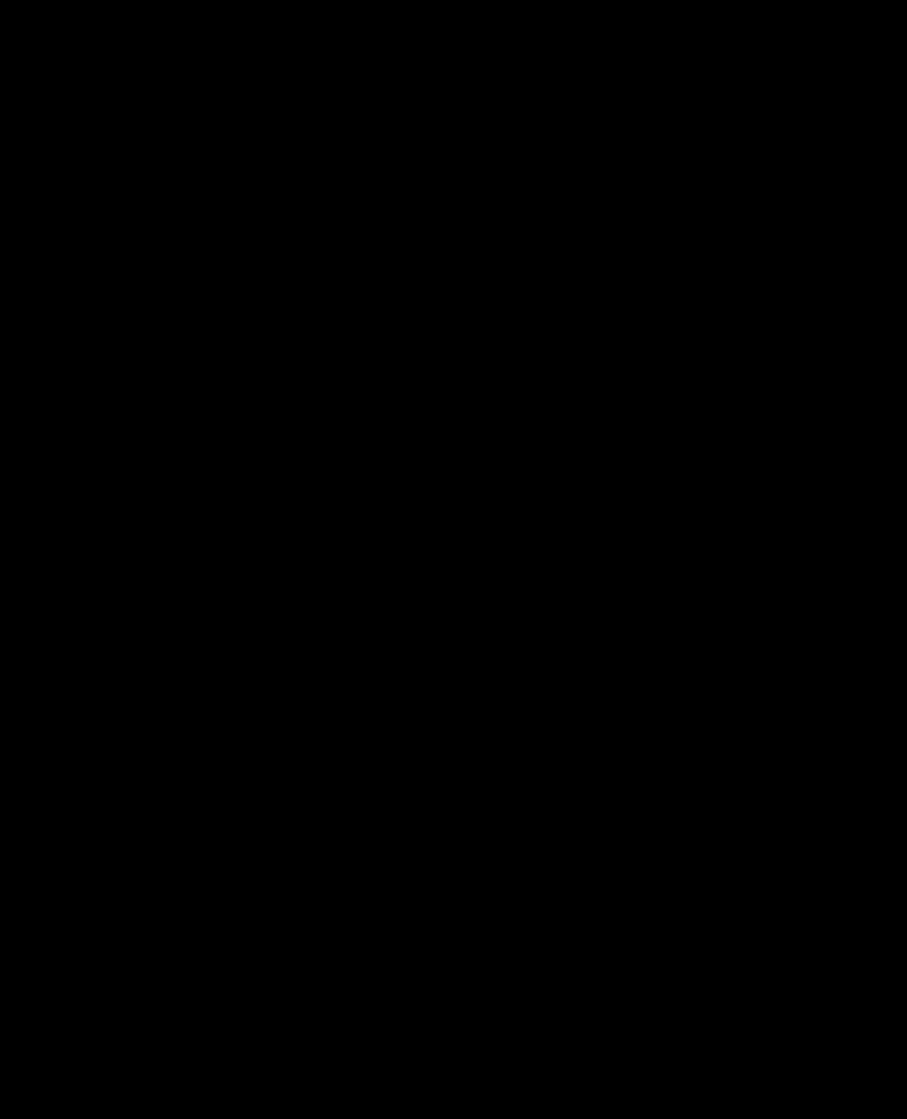
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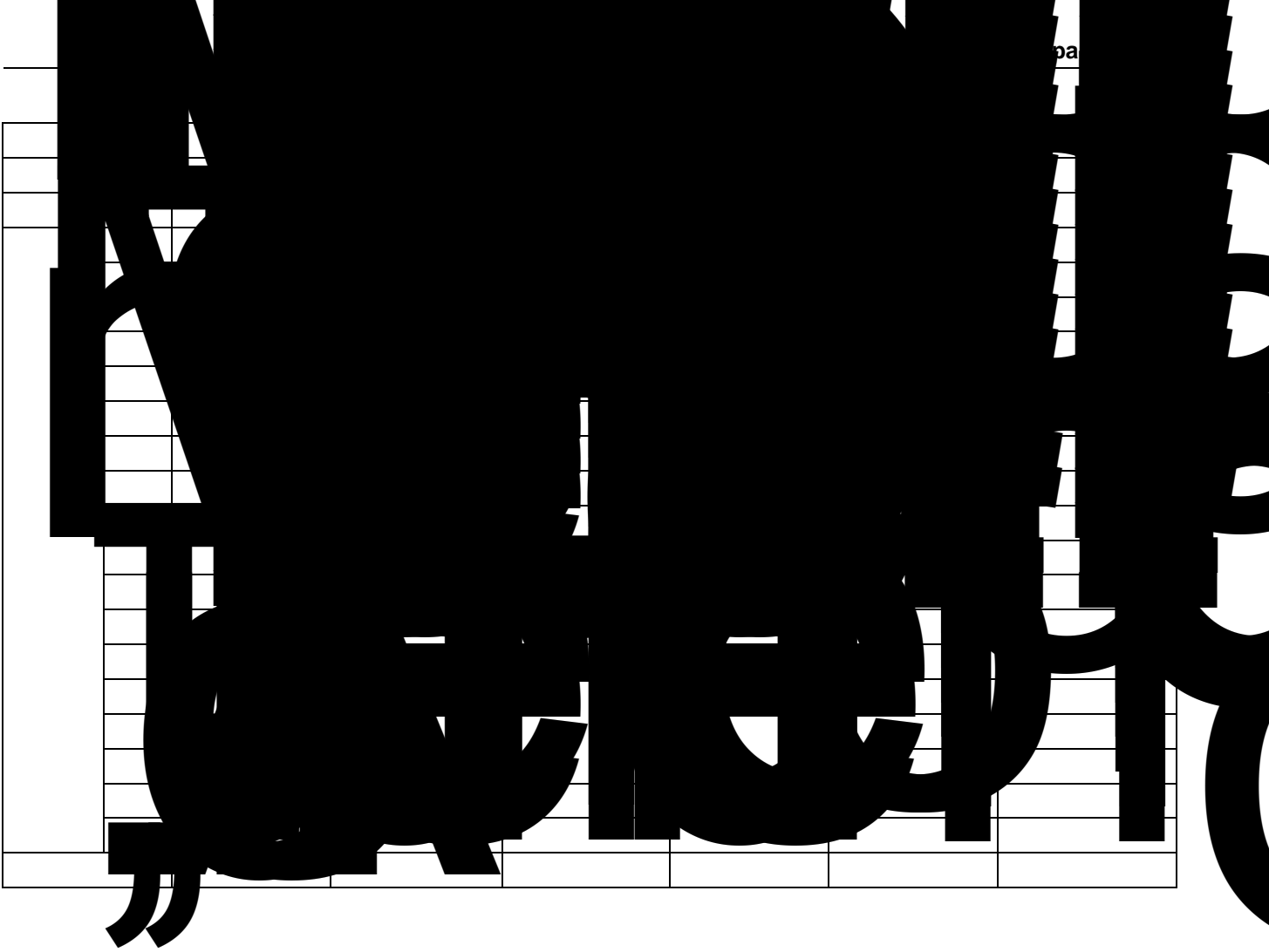








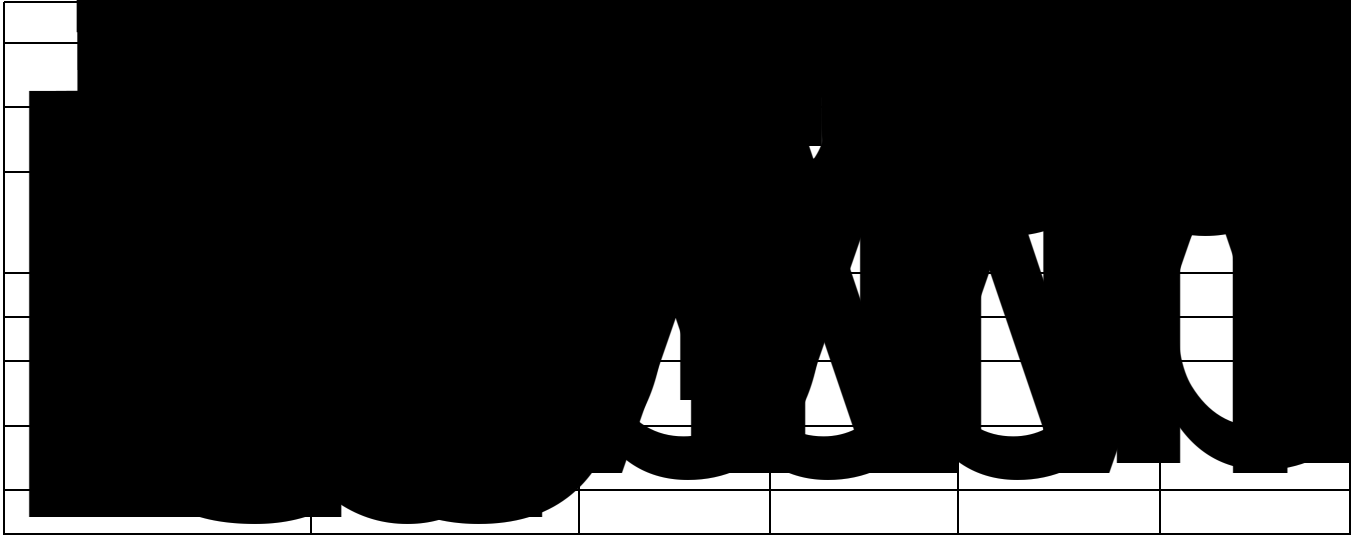
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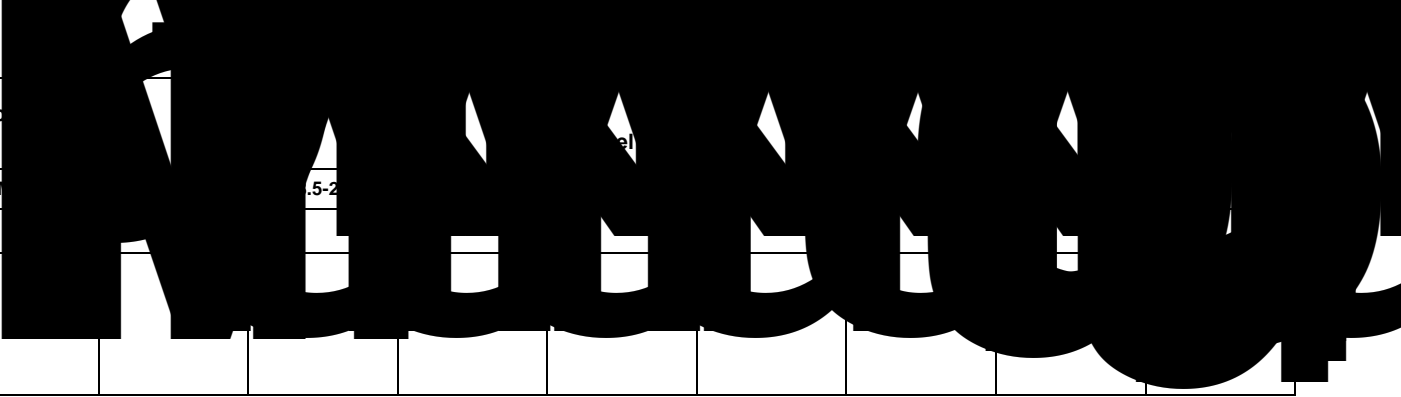


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Light part

	Quantity per vehicle (piece)

Vehicle parameters

Vehicle Parameter Table

Model No.		ZZ3316V306 (Dump truck)	ZZ4256V323H (tractors)
Drive type			
Mass parameters	Curb weight (kg)		
	Axial load distribution (kg)	Front Axle	
		Rear axle	
	Full-load mass (kg)		
	Axial load distribution (kg)	Front Axle	
		Rear axle	
Total weight of trailer allowed (kg)			
Maximum permissible load mass on the (traction) base (kg)			
Dimensions	Total length (mm)		
	Overall width (mm)		
	Total height (mm)		
	Wheelbase (mm)		
	Wheel track (mm)	Front wheel	
		Rear wheel	
	Front overhang (mm)		
Rear overhang (mm)			
Performance parameters	Maximum speed (km/h)		
	Maximum gradeability (%)		
	Minimum turning diameter (m)		
	Fuel consumption (L/100 km)		

Vehicle Parameters

Model No.		
Drive type		
Mass parameters	Curb weight (kg)	
	Axial load distribution (kg)	Front Axle
		Rear axle
	Full-load mass (kg)	
	Axial load distribution (kg)	Front Axle
		Rear axle
	Total weight of trailer allowed (kg)	
Maximum permissible load mass on the (traction) base (kg)		
Dimensions	Total length (mm)	
	Overall width (mm)	
	Total height (mm)	
	Wheelbase (mm)	
	Wheel track (mm)	Front wheel
		Rear wheel
	Front overhang (mm)	
Rear overhang (mm)		
Performance parameters	Maximum speed (km/h)	
	Maximum gradeability (%)	
	Minimum turning diameter (m)	
	Fuel consumption (L/100 km)	

Vehicle parameters

Vehicle Parameter Table

Model No.		ZZ4186V3611 (tractor)	ZZ4256V (tr)	
Drive type				
Mass parameters	Curb weight (kg)			
	Axial load distribution (kg)	Front Axle		
		Rear axle		
	Full-load mass (kg)			
	Axial load distribution (kg)	Front Axle		
		Rear axle		
Total weight of trailer allowed (kg)				
Maximum permissible load mass on the (traction) base (kg)				
Dimensions	Total length (mm)			
	Overall width (mm)			
	Total height (mm)			
	Wheelbase (mm)			
	Wheel track (mm)	Front wheel		
		Rear wheel		
	Front overhang (mm)			
Rear overhang (mm)				
Performance parameters	Maximum speed (km/h)			
	Maximum gradeability (%)			
	Minimum turning diameter (m)			
	Fuel consumption (L/100 km)			

Vehicle Parameter

Model No.		ZZ4256V36 (tracto
Drive type		
Mass parameters	Curb weight (kg)	
	Axial load distribution (kg)	Front Axle
		Rear axle
	Full-load mass (kg)	
	Axial load distribution (kg)	Front Axle
		Rear axle
	Total weight of trailer allowed (kg)	
Maximum permissible load mass on the (traction) base (kg)		
Dimensions	Total length (mm)	
	Overall width (mm)	
	Total height (mm)	
	Wheelbase (mm)	
	Wheel track (mm)	Front wheel
		Rear wheel
	Front overhang (mm)	
	Rear overhang (mm)	
Performance parameters	Maximum speed (km/h)	
	Maximum gradeability (%)	
	Minimum turning diameter (m)	
	Fuel consumption (L/100 km)	

Vehicle Parameter Table

Model No.		ZZ4186V361HE1B	

Vehicle Parameter Table

Model No.		ZZ4256V323H (tractors)	ZZ1256V523 (cargo)	
Drive type				
Mass parameters	Curb weight (kg)			
	Axial load distribution (kg)	Front Axle		
		Rear axle		
	Full-load mass (kg)			
	Axial load distribution (kg)	Front Axle		
		Rear axle		
Total weight of trailer allowed (kg)				
Maximum permissible load mass on the (traction) base (kg)				
Dimensions	Total length (mm)			
	Overall width (mm)			
	Total height (mm)			
	Wheelbase (mm)			
	Wheel track (mm)	Front wheel		
		Rear wheel		
	Front overhang (mm)			
Rear overhang (mm)				
Performance parameters	Maximum speed (km/h)			
	Maximum gradeability (%)			
	Minimum turning diameter (m)			
	Fuel consumption (L/100 km)			

Vehicle parameters

Vehicle Parameter Table

Model No.		ZZ1256V523ME1 (cargo)	ZZ1326V62AHF1 (cargo)
Drive type			
Mass parameters	Curb weight (kg)		
	Axial load distribution (kg)	Front Axle	
		Rear axle	
	Full-load mass (kg)		
	Axial load distribution (kg)	Front Axle	
		Rear axle	
Total weight of trailer allowed (kg)			
Maximum permissible load mass on the (traction) base (kg)			
Dimensions	Total length (mm)		
	Overall width (mm)		
	Total height (mm)		
	Wheelbase (mm)		
	Wheel track (mm)	Front wheel	
		Rear wheel	
	Front overhang (mm)		
Rear overhang (mm)			
Performance parameters	Maximum speed (km/h)		
	Maximum gradeability (%)		
	Minimum turning diameter (m)		
	Fuel consumption (L/100 km)		

Vehicle parameters

Vehicle Parameter Table

Model No.		ZZ1316V43 (cargo)	ZZ1266V484HE1K/W7PDM48-BZ (cargo)
Drive type			
Mass parameters	Curb weight (kg)		
	Axial load distribution (kg)	Front Axle	
		Rear axle	
	Full-load mass (kg)		
	Axial load distribution (kg)	Front Axle	
		Rear axle	
Total weight of trailer allowed (kg)			
Maximum permissible load mass on the (traction) base (kg)			
Dimensions	Total length (mm)		
	Overall width (mm)		
	Total height (mm)		
	Wheelbase (mm)		
	Wheel track (mm)	Front wheel	
		Rear wheel	
	Front overhang (mm)		
Rear overhang (mm)			
Performance parameters	Maximum speed (km/h)		
	Maximum gradeability (%)		
	Minimum turning diameter (m)		
	Fuel consumption (L/100 km)		

Vehicle parameters

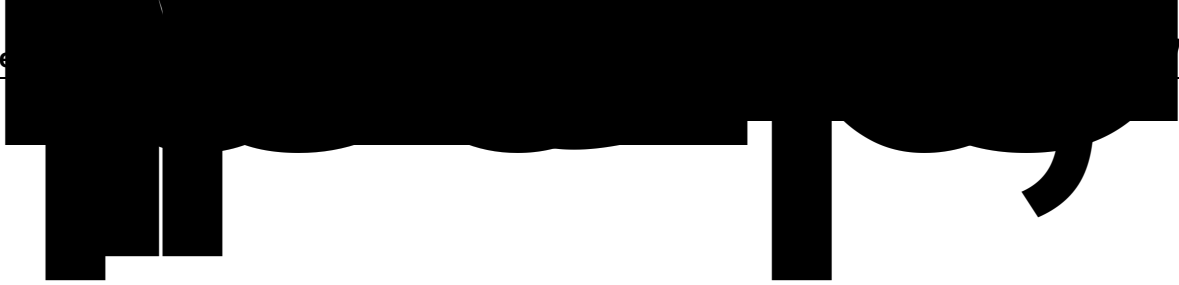
Vehicle Parameter Table

Model No.		ZZ3316V306 (Dump truck)	ZZ1386V26 (Stirrer)
Drive type			
Mass parameters	Curb weight (kg)		
	Axial load distribution (kg)	Front Axle	
		Rear axle	
	Full-load mass (kg)		
	Axial load distribution (kg)	Front Axle	
		Rear axle	
	Total weight of trailer allowed (kg)		
Maximum permissible load mass on the (traction) base (kg)			
Dimensions	Total length (mm)		
	Overall width (mm)		
	Total height (mm)		
	Wheelbase (mm)		
	Wheel track (mm)	Front wheel	
		Rear wheel	
	Front overhang (mm)		
Rear overhang (mm)			
Performance parameters	Maximum speed (km/h)		
	Maximum gradeability (%)		
	Minimum turning diameter (m)		
	Fuel consumption (L/100 km)		

Vehicle Parameter Table

Model No.		ZZ1386V26KF1 (tractor)	ZZ4256V364HC1H (tractor)
Drive type			
Mass parameters	Curb weight (kg)		
	Axial load distribution (kg)	Front Axle	
		Rear axle	
	Full-load mass (kg)		
	Axial load distribution (kg)	Front Axle	
		Rear axle	
	Total weight of trailer allowed (kg)		
Maximum permissible load mass on the (traction) base (kg)			
Dimensions	Total length (mm)		
	Overall width (mm)		
	Total height (mm)		
	Wheelbase (mm)		
	Wheel track (mm)	Front wheel	
		Rear wheel	
	Front overhang (mm)		
	Rear overhang (mm)		
Performance parameters	Maximum speed (km/h)		
	Maximum gradeability (%)		
	Minimum turning diameter (m)		
	Fuel consumption (L/100 km)		

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