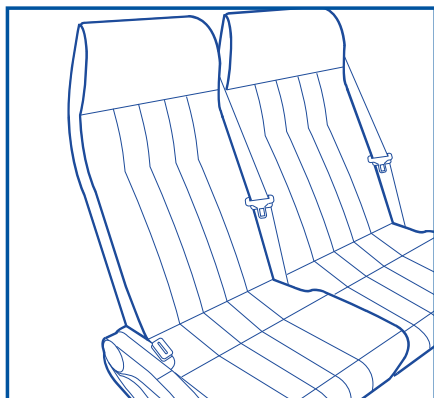


03

VEHICLE INTERIOR

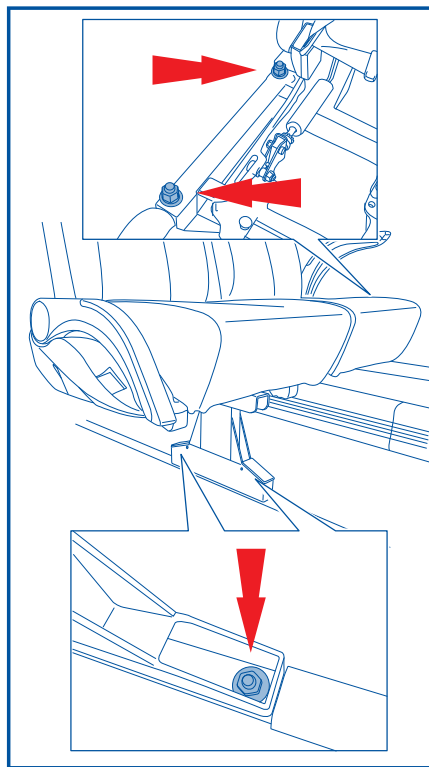
- 3.1 Passenger Seats
- 3.2 Seat Belts
- 3.3 Assistant's Seat
- 3.4 Passenger Control Group
- 3.5 Emergency Situation Equipment
- 3.6 Accessories

3.1 Passenger Seats



OPTION

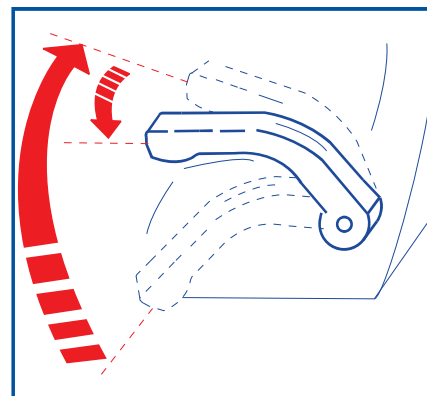
Model, type and specifications of passenger seats may differ from those stated in this User's Manual.



WARNING

Passenger seat bolts tightening torque must be 65 Nm. Check the torque before driving.

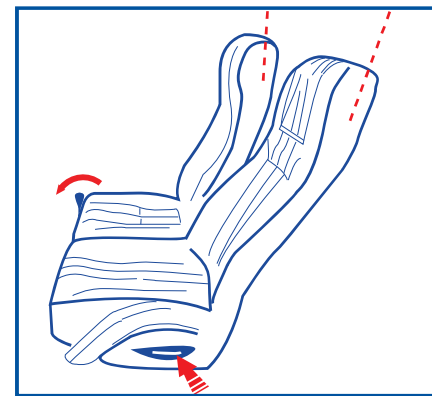
Armrest



Pull the armrest upwards to the utmost degree to open it. Release the armrest after it is locked. Armrest would stay stationary at that position.

To close the armrest, pull the armrest to the utmost degree again and push to lowest level after it is released.

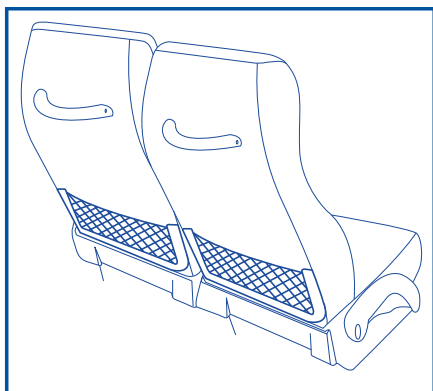
Upright Position Adjustment Lever



Pull the lever in the direction of the arrow to adjust upright position.

3.2 Seat Belts

Seat Pocket



When using the seat pocket the item in the pocket should not extrude more than 10cm/4inch above the top of the pocket and weight no more than 1kg/2.2lbs.



OPTION

This feature is optional. It may not exist in all models of the vehicle.

FASTEN YOUR SEATBELTS ON THE COACH



**SAFETY IS IN YOUR
HANDS**

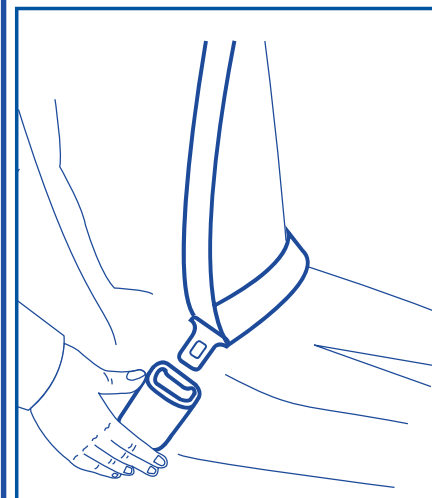
Passenger seats are equipped with three-point seat belts. It is of vital importance to use seat belts during travel. Inform the passengers about wearing seat belt before driving.



WARNING

- Seat belts have vital importance. Therefore, use only TEMSA genuine spare parts.
- Check all the belts function properly before starting to drive. Pull the belt sharply against retractor to confirm that automatic lock mechanism is working properly. Consult with authorized TEMSA service in case of any problem related to connection and lock elements.
- No objects other than the buckle latches should be inserted into the belt buckle.
- Pull the seat belts to check all buckle latches if they are inserted into their buckles or not.
- Seat belts worn during the travel keep tense position. It is recommended for the passengers not to carry stiff objects such as pen or cell phone in their pockets. Inform the passengers on this matter.

Use of Seat Belts For Adults



Insert the buckle latch into the belt buckle to fasten seat belt.



AURAL INSPECTION

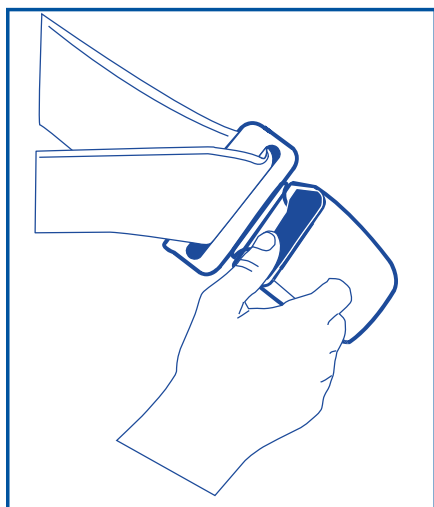
Insert the buckle latch into the belt buckle until it engages audibly.

3.2 Seat Belts



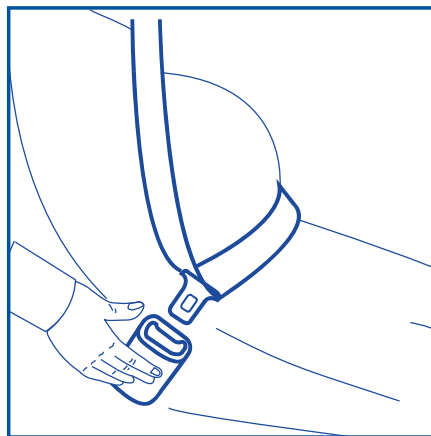
WARNING

Seat belts provide maximum safety when passenger seats are at upright position. When the seats are reclined at an extreme degree, sliding may occur resulting with injuries.



Press the latch on the belt buckle to release the seat belt.

Use of Seat Belts for Pregnant



The correct use of a safety belt during pregnancy will not harm either the mother or the baby. The tightness of the belt is important. The belt should be tight around the pregnant woman, but at the same time allow her to sit comfortably. Pregnant women should take care when using a seatbelt. The belt should pass over the hip bones and across the abdomen, and under the pelvic area. This ensures the safety of the baby and the expectant mother during pregnancy. For maximum safety, seats for pregnant women should be in an upright position.

Use of Seat Belts for Children

Passengers of ages 0-10 should be monitored for the correct usage of the seat belt. Seat belt may not be tight enough depending on the size of the passenger. In such a case, a cushion should be put on the seat surface so as to ensure that the seat belt is fastened at the proper tightness in order to prevent the passenger from sliding off the seat.



WARNING

- Passengers should not walk in the vehicle unless necessary.
- Each seat belt is allowed to be used individually. Only use one seat belt per person.
- Replace any seat belts which have been damaged, stained or torn.
- Children of ages 0-10 should by no means be permitted to wander in the vehicle while unattended by their guardian.



WARNING

Check that lap belts are run situated over passengers' hips and not over their abdomen/waist. Pressure is applied on hipbone, instead of abdomen, and in the event of an accident can prevent severe injuries.



INFORMATION

Check that seat belts are correctly fastened and they function properly during travel and tighten if necessary.

3.4 Passenger Control Group



- 1. Passenger Air Vents
- 2. Reading Lamp Button
- 3. Operation buttons
- 4. Passenger Speaker

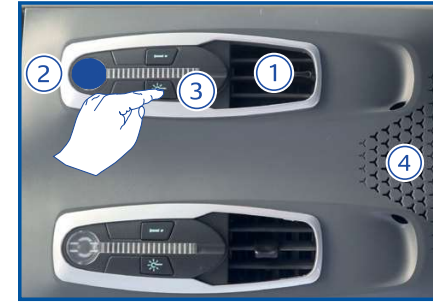
Passenger Air Vents



Cool air transferred by the air conditioner is conducted to the passengers via air vents.

Air outlet can be controlled by moving the ring.

Reading Lamp Button



Press button to turn on reading lamps.



INFORMATION



Press “Reading Light Switch” located on right control panel to activate passenger reading lamp switches. (See also page 58)

3.5 Emergency Situation Equipments

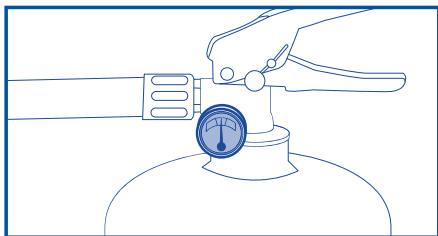
Fire Extinguisher



INFORMATION

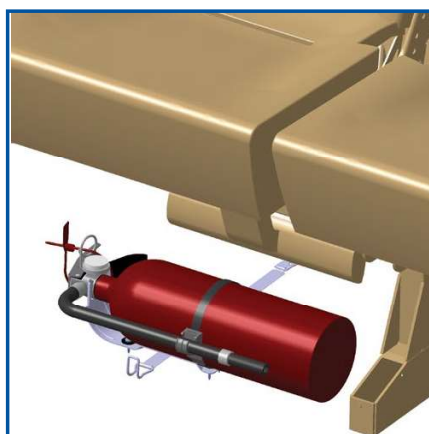
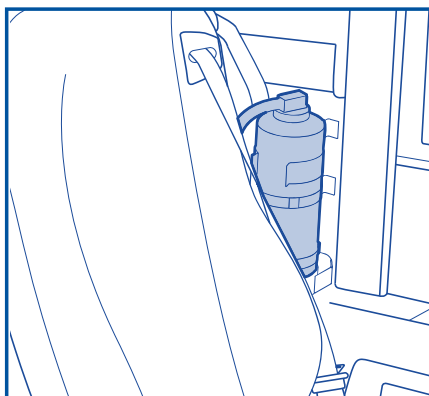
The fire extinguisher is to be used in the event of a fire to prevent the fire from spreading.

Check the pressure indicator of the fire extinguisher according to state fire laws. It is the driver's responsibility to ensure that charge level is within acceptable range.



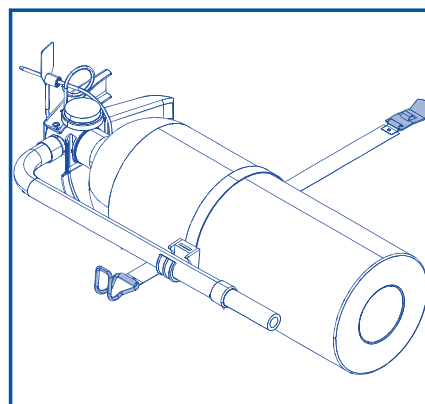
Access

Fire extinguisher is located behind the driver's seat and its denoted by a label.



OPTION

Location of fire extinguishers and their volume may vary according to customer's request. Location of the fire extinguisher may differ from the one indicated in this User's Manual.



Fire extinguisher is stabilized with two safety straps. Press both of the clips and unlock to release the extinguisher.

3.5 Emergency Situation Equipments

Usage



1. Pull extinguisher's safety pin.
2. Press the button on the top of the extinguisher.
3. Ensure that fire extinguisher is in a vertical position. Aim the nozzle at the base of the fire and squeeze the handle to discharge the agent.

Actions to Be Taken In The Event Of a Fire

1. Assess the Situation:

When a fire starts, the driver must immediately assess the seriousness of the situation. He or she must determine where the flames are coming from and the extent of the fire.

2. Immediately Inform the Passengers in the Vehicle:

Immediately inform the passengers inside the vehicle of the fire and keep them calm.

3. Direct Passengers to a Safe Place:

If the fire is growing or it is not safe to intervene, the driver should immediately pull the vehicle to a safe place and evacuate the passengers quickly.

4. Move Away from the Vehicle:

Once the passengers are in a safe position, the driver should move away from the vehicle. Fighting the fire should not waste time.

5. Call 911:

Report the fire by calling the local emergency number (911). Provide appropriate security until fire responders arrive on the scene.

6. Call for Help:

If necessary, ask for help from other drivers in the area. Provide direction to others who can help control the fire or ensure the safety of other occupants.



INFORMATION

In all cases, the safety of the driver and passengers must be a priority. Acting quickly and correctly in the event of a fire can help minimize potential damage.

3.5 Emergency Situation Equipments

What to do

In the event of a possible fire, evacuate the passengers to a safe area. Always evacuate women and children first.



WARNING

- Never leave the fire area before fire is extinguished completely.
- The Fire Extinguisher should be regularly checked by professionals.



INFORMATION

- Take the direction of the wind into consideration, do not discharge agent against the wind.
- Aim the nozzle directly at ground level and core of the fire.
- Aim first for front parts and then lateral parts of fire.
- Treat first the areas of higher risk which may create danger from heating up.

Emergency Exit Windows

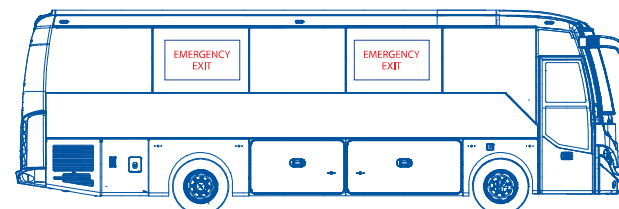
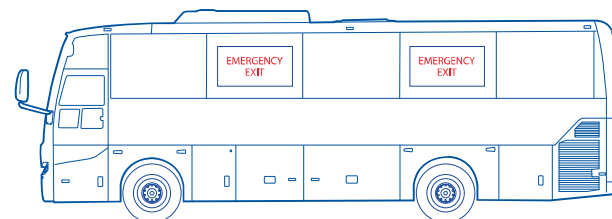
Your vehicle is equipped with emergency windows on both left and right side. Emergency windows are denoted with special labels. Ensure the windows are functioning properly and the labels are legible.



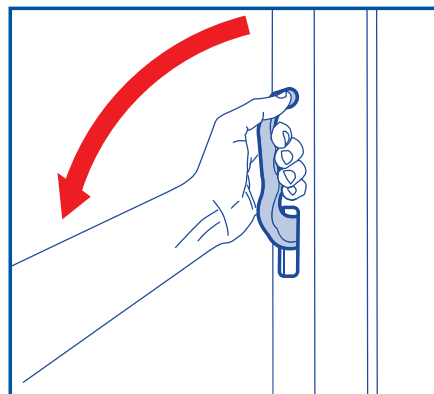
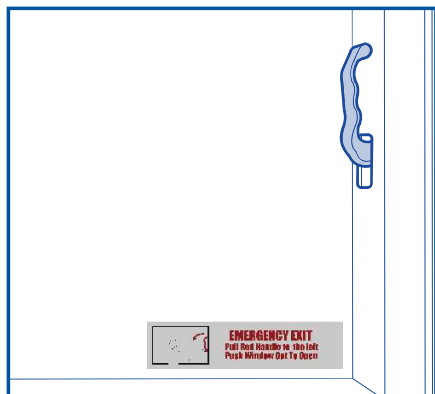
WARNING

Never remove the labels applied to the emergency exit windows.

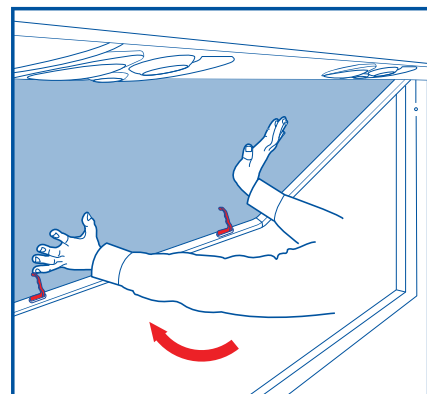
**EMERGENCY EXIT
SORTIE DE SECOURS**



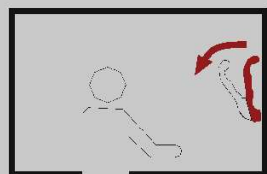
Emergency Exit Windows



Pull both two handles to upright position to release the lock mechanism.



Push the emergency exit window after releasing lock mechanism.



EMERGENCY EXIT
Pull Red Handle to the left
Push Window Out To Open



INFORMATION

Opening handles are only installed on emergency windows only.

3.5 Emergency Situation Equipments

First Aid Kit

First aid kit is provided inside the vehicle. It is located in driver's overhead luggage rack and denoted with the label shown below.



OPTION

Location, amount and content of first aid kits may vary according to customer request. Therefore first aid kits may differ from that indicated in User's Manual.



INFORMATION

- First aid kit content is not meant for treatment purposes. They are provided for first aid.
- First aid content must only be used by trained people.



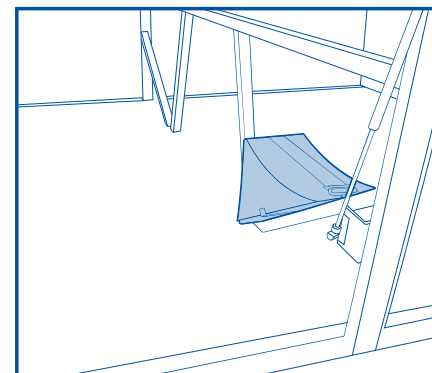
INFORMATION

Check that first aid kit content is present and complete. Replace used items.

First aid kit content is listed below:

1	Scissors
3	Body Cleansing Wipes (for injury-free body cleansing)
4	Disposable gloves
6	Sterile Compress Cloth (10x10)
1	Roll Adhesive Bandage (500x2,5)
2	Triangular Bandage
4	Adhesive Bandage (6x10)
2	Plaster Strip (1,9x7,2)
2	Plaster Strip (2,5x7,2)
2	Plaster Strip (12x2)
2	Band-Aid
3	Elastic bandagej (8x400)
2	Elastic bandage (6x400)
1	Sterile Compress Cloth (40x60)
1	Sterile Compress Cloth (60x80)
1	Compress Bandage (6x8)
2	Compress Bandage (8x10)
1	Kompres Bandajı (10x12)

Wheel Chocks



Your vehicle is equipped with wheel chock located in the luggage compartment. Wheel chock is used as a safety device to keep the vehicle from accidental movement.

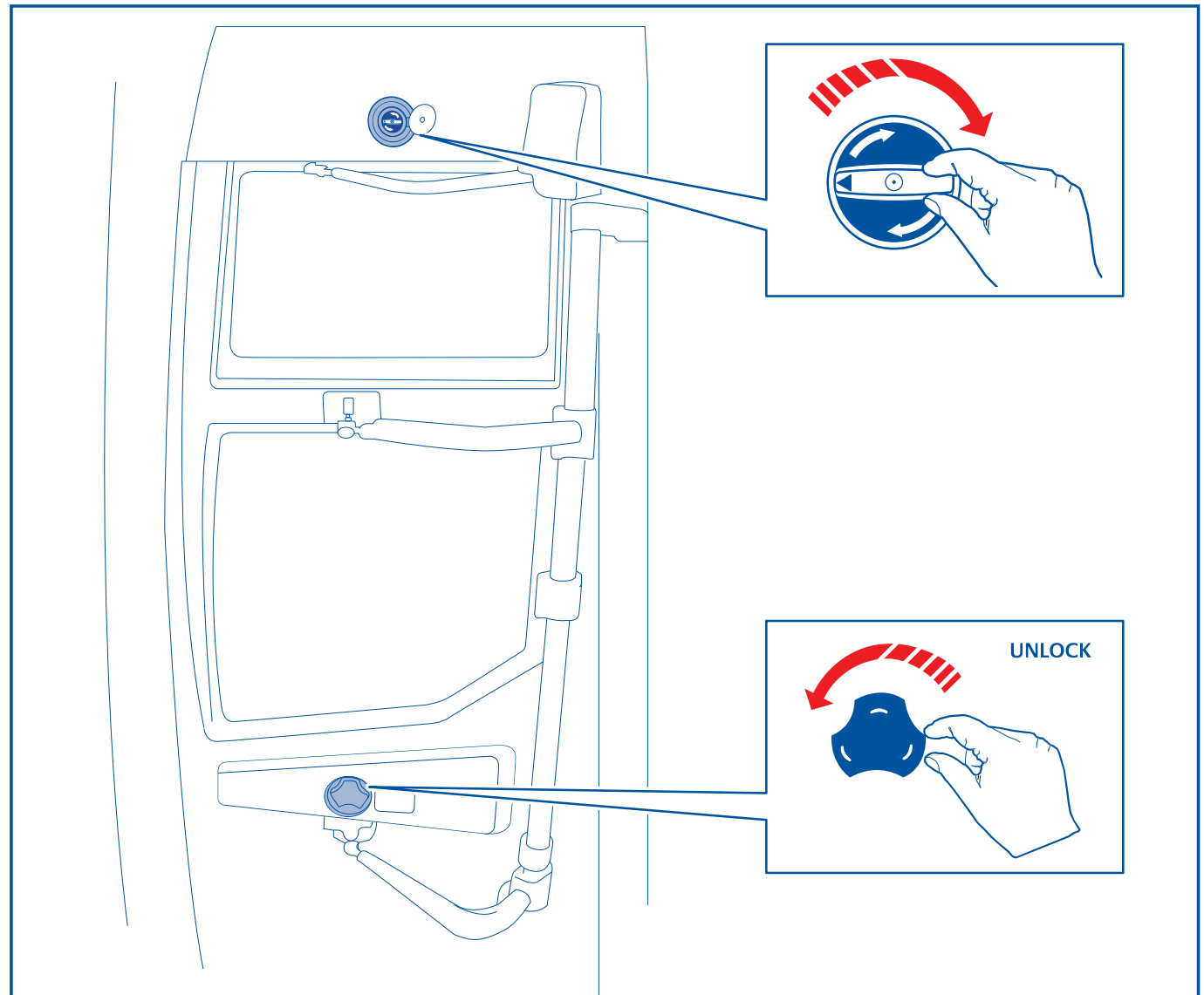
Set wheel chocks and secure the vehicle when parking uphill or downhill, changing wheels or in a malfunction on brake system or if other circumstances cause it to roll on an incline. Otherwise vehicle may skid. Set wheel chock under tires in the direction of the grade. If it's uncertain which direction is the grade, the wheels should be chocked on both sides. Ensure that wheel chocks in position and available before driving. Wheel chocks must be available in the vehicle.

Door Emergency Exits Front Door

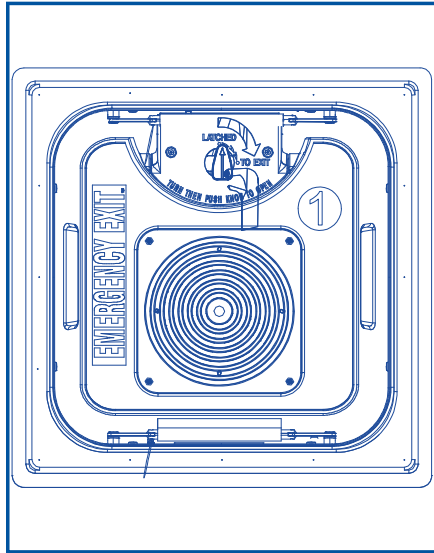
Front door can be opened independently from the driver's control panel in emergencies. Emergency exit valve is located at the top of the door.

In emergency, turn the emergency exit valve clockwise and push the door outwards to open.

If the door is locked from outside, turn the lever counter clockwise to unlock the mechanism.

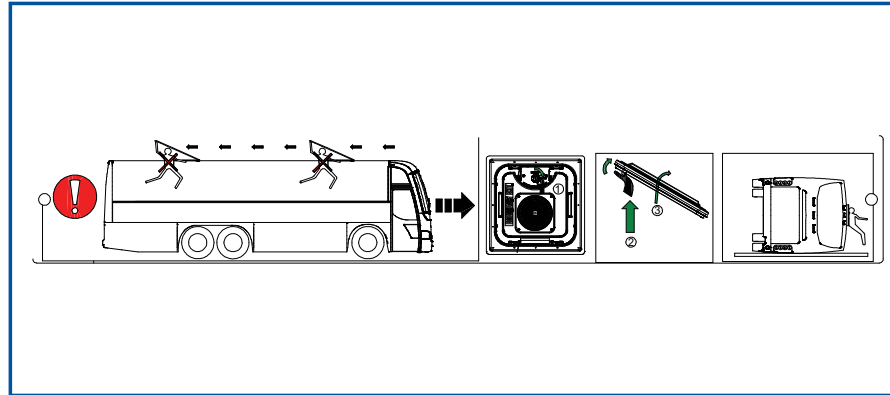


Roof Escape Hatch



In vent of emergency;

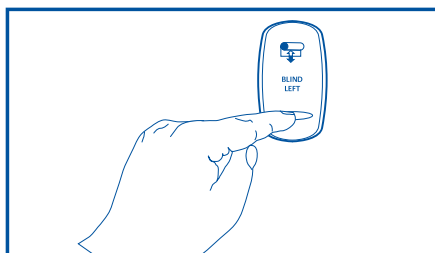
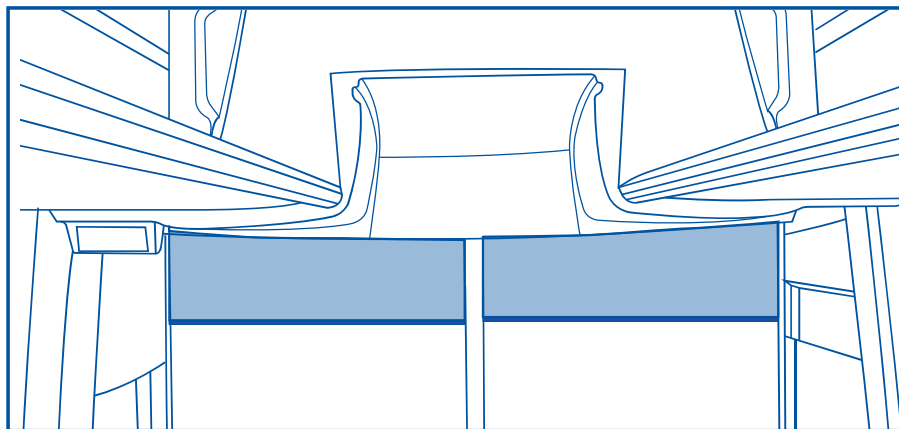
1. Push up
2. Pull the white knob
3. Open the lid

**WARNING**

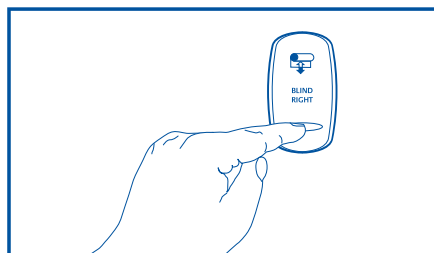
- Never remove the labels stuck on the emergency exit windows.
- Never use escape hatches when the vehicle is not stationary.
- It is of extreme risk to use escape hatches unnecessarily.

3.6 Accessories

Sun Visor



Keep lower side of the blind left switch pressed to lower driver's sun visor.



Keep lower side of the blind right switch pressed to lower assistant's sun visor.

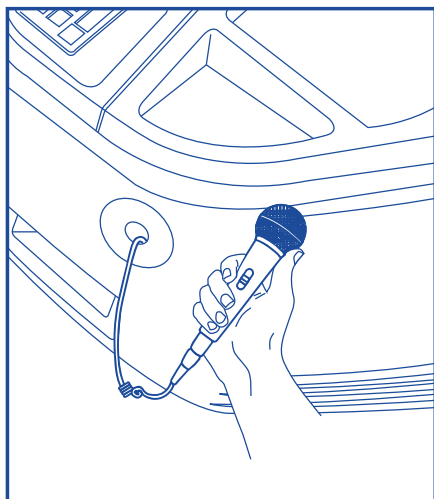


INFORMATION

Sun visor control buttons are located on right control panel.

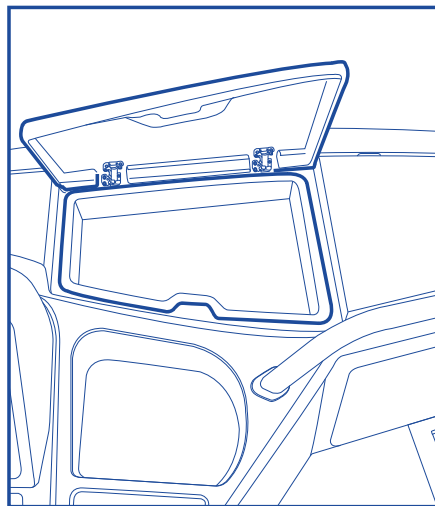
3.6 Accessories

Assistant's Microphone (Optional)



OFF: Closed
ON: Open

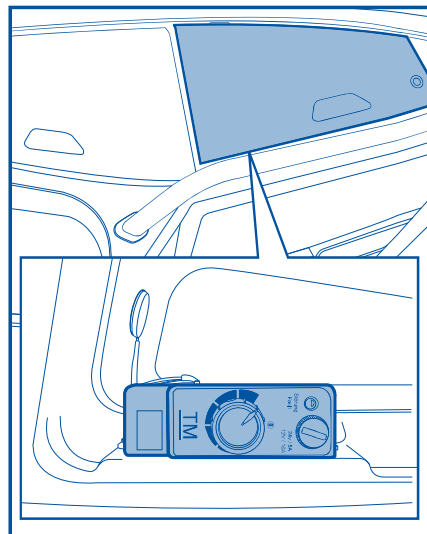
Lateral Glove Box



Documents and personal belongings can be stored.

Pull the cover upwards to open.

Dashboard Refrigerator



A lock is provided on the refrigerator hatch. Turn the key counter clockwise to unlock and lift to open.

Push the hatch downwards to close and turn the key clockwise.

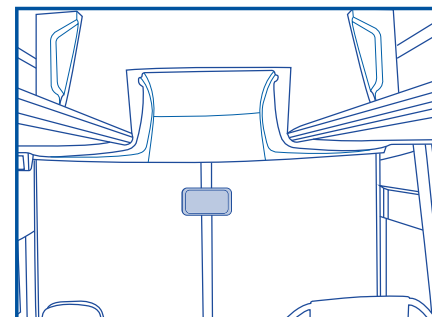


INFORMATION



Refer to user's manuals of dashboard refrigerator delivered with the vehicle for more information.

Rear View Mirror



Allows the driver to see inside of the vehicle.

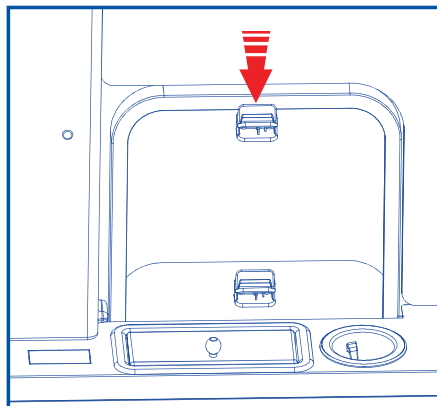
Adjust the rear view mirror to see inside of the vehicle and doors.



INFORMATION

Rear view mirror is adjusted manually.

Driver's Side Window



Latches are provided with the lock mechanism of the windows.

Press the latch and slide the window to the right to open.

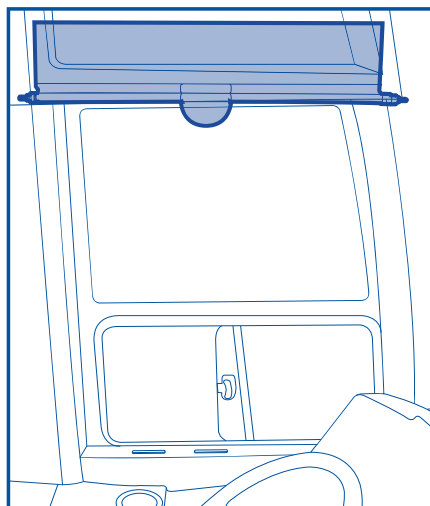
Hold the latch and slide to the left to close the window.



WARNING

Always hold latches from outer parts. Otherwise your hand may be injured.

Driver's Side Sun Visor (Optional)



Pull the black knob to move the sun visor downwards.

Pull and release the white knob to move the sun visor upwards.



OPTION

This feature is optional. It may not be included in all models.

Digital Indicators

Seat Belt Indicator



Indicates that passengers must fasten their seat belts.

Toilet Indicator



Indicates that the toilet is in use.



INFORMATION

Toilet indicator lamp lights up when the toilet door is locked from inside.

3.6 Accessories

Toilet (WC)



Your vehicle is equipped with toilet unit and denoted by label.



Push the lever down and pull it towards you to open the toilet door.



WARNING

Toilet door is equipped with spring mechanism. Take necessary precautions while opening and closing toilet door, to prevent injury to hand and fingers.

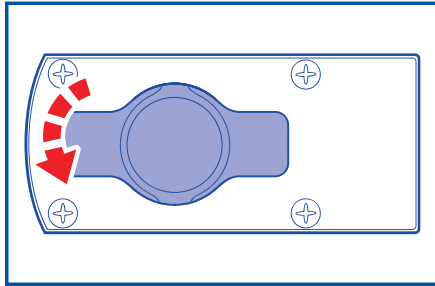


WARNING

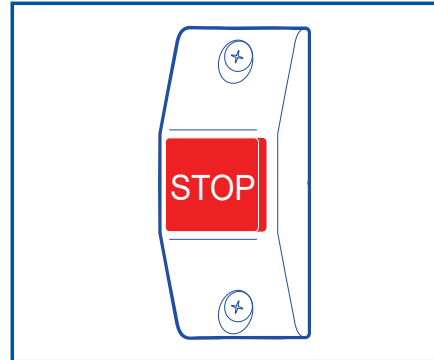
Information about toilet usage is denoted by warning labels. Inform passengers before using toilet.

3.6 Accessories

Toilet (WC)



Rotate the lever counterclockwise to lock the toilet door from inside.



Emergency situation switch can be found inside the toilet unit.



WARNING

When the engine is on and “WC Active” switch is pressed, the ventilation fan runs at a higher level and toilet lamps light up if the toilet door is locked from inside.

Rotate the lever clockwise to unlock the door and push to open.

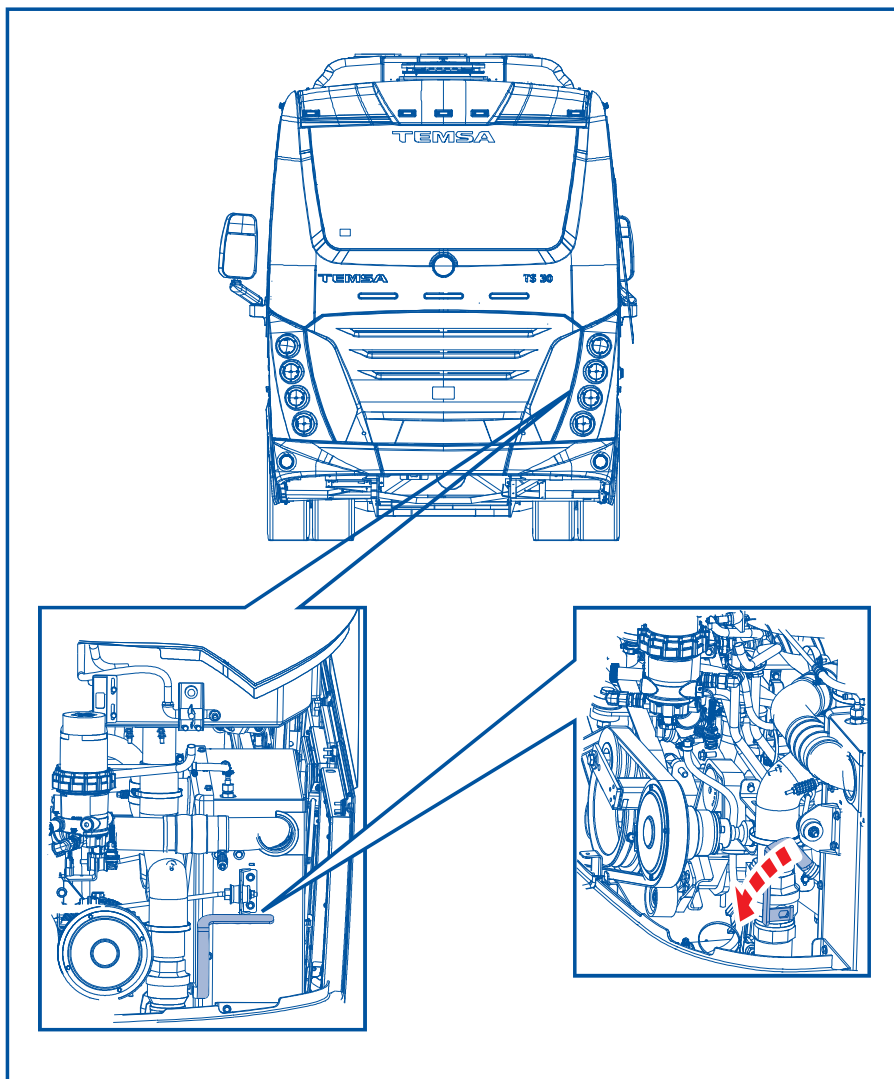


INFORMATION

Corresponding warning lamp on indicator panel lights up as long as the stop switch is kept pressed and discontinuous warning buzzer sounds.

3.6 Accessories

Lavatory Waste Discharge



WARNING

Lavatory waste must be disposed of into appropriate and approved Disposal or Dump. Failure to do so may result in serious criminal and/or civil fines, penalties and/or incarceration.

1. Park the vehicle in a dump station and place your holding tank drain valve as close to the opening of the dump station as possible.
2. Pull the discharge valve lever down.
3. Restore the valve to its original position when discharging is finished.



INFORMATION

If lavatory waste tank is full, a fault message displayed on warning panel.



WARNING

Never use toilet unit if lavatory waste tank full.



WARNING

If the weather is cold, (under 32°F / 0°C) water tank and water pipes may be frozen. To avoid damage, drain lavatory waste tank if the vehicle is to remain unused long period of time.

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04

DRIVING

- 4.1 Pre-Driving
 - 4.1.1 Driver's Seat Adjustment
 - 4.1.2 Driver's Seat Belt
 - 4.1.3 Rear View Mirror Sight Adjustment
 - 4.1.4 Steering Wheel Adjustment
 - 4.1.5 Checking Control Switches
 - 4.1.6 Checking Indicator & Warning Lamps
 - 4.1.7 Checking Air Pressure
- 4.2 Driving
- 4.3 Emergency Situations
 - 4.3.1 Towing the Vehicle

4.1 Pre-Driving

Taking necessary actions before driving prevents possible problems while driving.

To have optimal conditions for yours own and passengers safety, always check all items that may affect driving performance.

Checking Headlights and Lamps

Check all headlights and external lamps before driving. Consult authorized TEMSA Service in event of any malfunctioning.



WARNING

Tire pressure increases while driving. Check tire pressure when tires are cold.

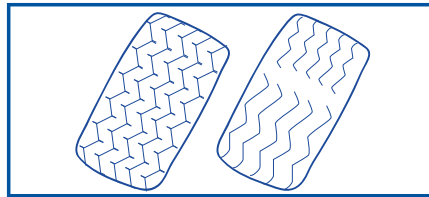
Checking Tire Pressures

Check the tires and rims before driving.



VISUAL INSPECTION

Check that tires (also spare tires) are not worn, torn, damaged etc.



Perform tire pressure adjustment according to the values given by the manufacturer for different weather conditions. (See page 141)
Check that all rims are installed and fixed properly.

Checking Systems for Leaks

Check fuel and lubrication systems of the vehicle for leaks before driving.



VISUAL INSPECTION



Consult authorized TEMSA Service in event of any leaks in the systems.

Checking Engine Oil

Check the level and color of the engine oil (see page 178).



INFORMATION

Check the engine oil level when the engine is stopped and warm, wait till the oil flows back into the sump. Park the vehicle on level ground to get an accurate oil level reading.

Checking Coolant Level

Check the level of coolant before driving (see page 121).



VISUAL INSPECTION

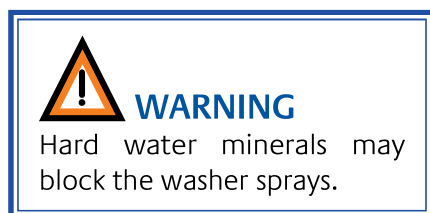


Consult authorized TEMSA Service when coolant level is low. Do not top off the tank before consulting the TEMSA Service. systems.

4.1 Pre-Driving

Windshield Washer Fluid

Check the level of windshield washer fluid before driving. Top up the fluid if the level is low (see page 52).



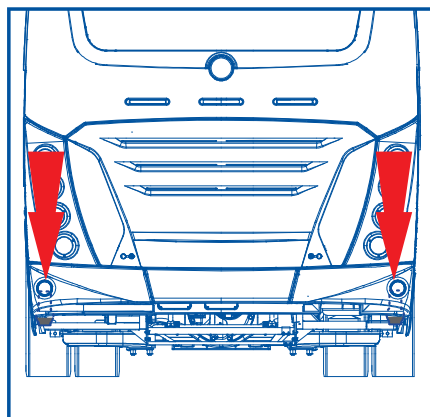
Checking Luggage

Check that luggage in the luggage compartment is correctly placed.

According to traffic conditions sudden acceleration and deceleration may cause luggage slide and hit the luggage compartment walls. Arrange the luggage properly in order to prevent this.

Checking A/C Drain Off Nozzle

Check that air conditioner drain off nozzle is not blocked.



Vent at the end of the air conditioner nozzle may get blocked due to weather conditions.

The performance of the air conditioner would be adversely affected if condensate is not drained off.

Checking Emergency Situation Equipment

Check the emergency situation equipment before driving. Check that emergency equipment is fully functional.

Jack, spare tire, bulbs, spare fuse, first aid kit, fire extinguisher, wheel nut, lug wrench chock, auxiliary rods and tool bag must be kept ready for use.

Warning and information labels are provided inside the vehicle. Inform the passengers about these labels and what to do.



INFORMATION

- Check that first aid kit contents are complete.
- Check the fire extinguisher has been serviced.

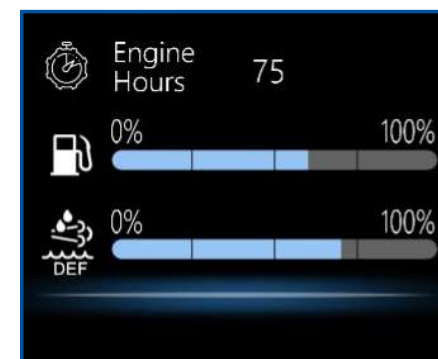
Checking Doors and Hatches

Check that all doors and lids are closed and locked before driving. Check that doors and lids are closed properly using rear view mirrors.

Checking Fuel Level

Check the fuel level by using the corresponding indicator located on instrument panel. Top up the tank with correct fuel if needed.

Do not wait until the fuel is completely consumed before refueling. Air remaining inside the tank may cause engine malfunction.



INFORMATION

Fuel level can be monitored in percentages through display.

4.1.1 Driver's Seat Adjustment



INFORMATION

- Maximum weight capacity of driver's seat is 150kg / 331lbs and pressure of 7 bar / 102 psi.
- Driver's seat adjustment buttons are located at right side of the seat.
- For seat cleaning, only a slightly damp cloth should be used, and strong chemicals should not be applied.
- For road safety reasons, the seat must only be adjusted when the vehicle is stationary and the handbrake is engaged, as making adjustments while driving may cause accidents.
- An improperly adjusted seat risks your driving safety and health.
- Before driving, especially when changing the driver, adjust the seat to best fit your body.
- Do not operate multiple control elements at the same time.
- Do not place anything on the seat and do not cover it.

Driver's seat position can be adjusted with control buttons located on the seat.

- Horizontal adjustment
- Lowering
- Shock absorber
- Height adjustment
- Lumbar support (LS)
- Backrest adjustment
- Tilt adjustment
- Seat cushion adjustment
- Armrest
- 3-point belt

Can be adjusted with these buttons.



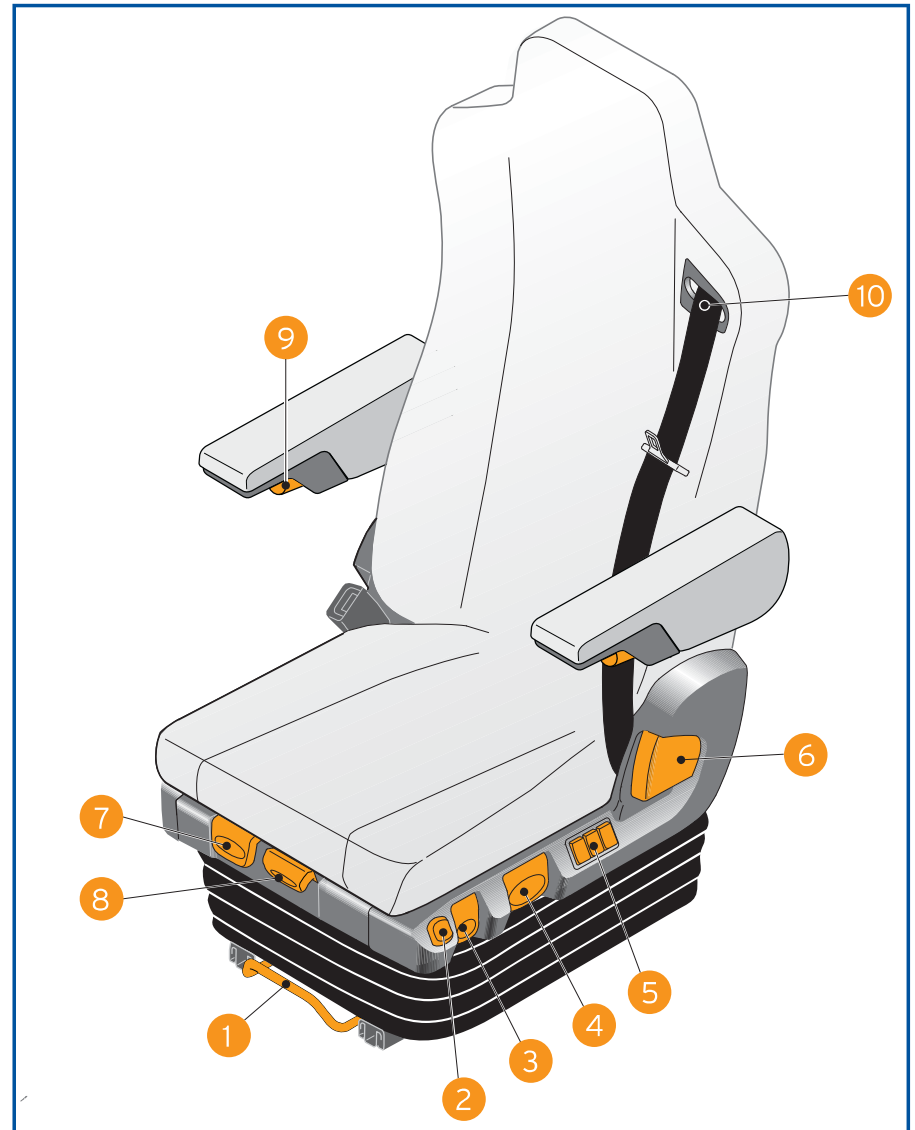
WARNING

Adjustment must be performed when the vehicle is stationary. Adjustments performed during travel may cause accidents.



OPTIONAL

Some features may differ according to customer request.



4.1.1 Driver's Seat Adjustment

1. Horizontal adjustment

Pull lever completely and move seat forwards/backwards.

Release the lever to lock the seat.

2. Lowering

Press button down

- Seat is lowered to the lowest position (easy off entry and exit).

Press button up (when seat is lowered):

- Seat returns to previously set position.

3. Shock absorber

By adjusting the damper, the suspension characteristics of the seat can be optimally adapted to every roadway and every driver.

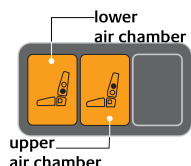
- Lever up: minimum damper force - for flat roads.
- Lever down: maximum damper force - for rough roads.

4. Height adjustment

Pull or push handle and adjust the seat to the desired height.

5. Lumbar support (LS)

Press button to match the shape of the backrest individually to the body contours.



6. Backrest adjustment

Pull handle and adjust the backrest position by applying your weight to the backrest.

7. Tilt adjustment

Pull lever and adjust the tilt by loading/unloading the front seat cushion area.

8. Seat cushion adjustment

Pull lever and move the seat cushion forward/backward.

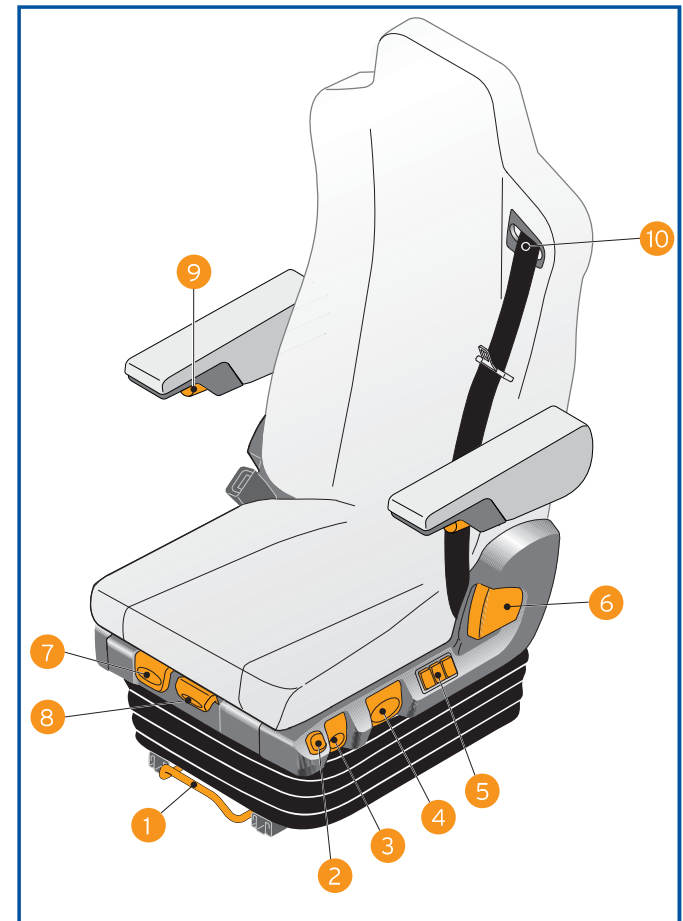
Release the lever to lock the seat.

9. Armrest

Lift up armrest a little and adjust inclination by turning the wheel.

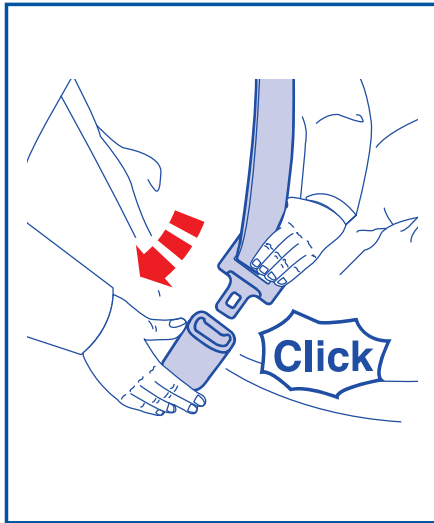
10. 3-point-belt

- Don't twist the seat belt when fastening.
- Make sure that the belt tongue engages correctly in the belt buckle.
- The belt has to rest close against the body.
- When unfastened, guide the belt tongue back to the belt retractor.



4.1.2 Driver's Seat Belt

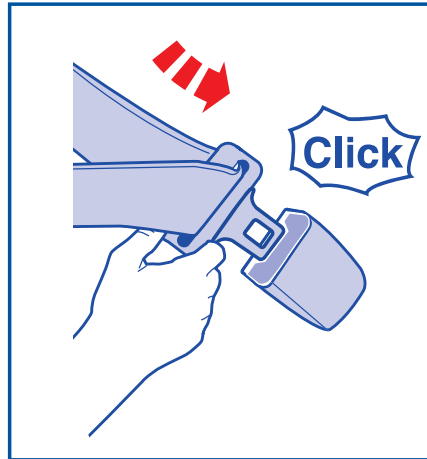
First adjust the seat, put on the seat belt, and then perform other actions.



WARNING

Do a seat belt check once a week by pulling it while it is engaged, it should not release.

Insert the buckle latch into the belt buckle until it engages with a click. Press the red button on the belt buckle to release the belt. Belt should coil automatically.



4.1.3 Rear View Mirror Sight Adjustment

Adjust the positions of the rear-view mirrors before driving (see page 57).



INFORMATION



Before driving, first adjust the seat position, put on seat belt and then adjust rear view mirrors positions. Adjust the mirrors to guarantee utmost visibility.

4.1.4 Steering Wheel Adjustment

Always check steering wheel position before driving (see page 51).



INFORMATION



Adjust the seat position first, put on seat belt and then adjust steering wheel position. Steering wheel position must not prevent full vision of indicator and fault lamps.



WARNING

Changing steering wheel position when driving will reduce control over the vehicle and could cause accidents.

4.1.5 Checking Control Switches

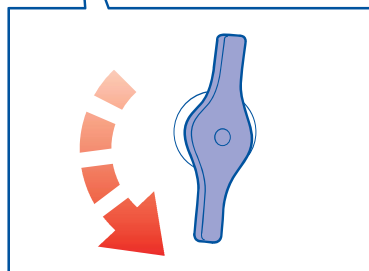
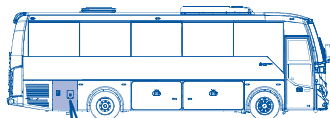
Check that all control switches function properly before driving.



INFORMATION



All control switches function after main battery cut-off switch is switched on. Consult authorized TEMSA Service if any of the switches malfunction.



4.1.6 Checking Indicator and Warning Lamps

Indicator and warning lights provide all the information about the operations of the vehicle. It is of vital importance to check all the indicator and warning lamps before driving.



WARNING

A warning lamp may indicate malfunction during travel. Always find out the reasons for the malfunction. Park the vehicle in a convenient place and consult authorized TEMSA Service if you cannot detect or repair the malfunction.

4.1.7 Checking Air Pressure

Check that air pressure is sufficient to operate brake and other air systems.

WARNING

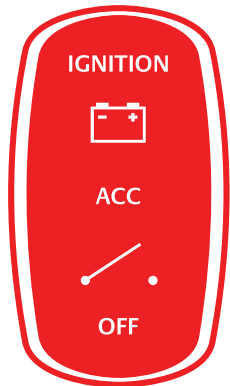
DO NOT OPERATE THE BUS
WITH AN AIR PRESSURE
BELOW 100 PSI



SAFETY IS IN YOUR HANDS

FASTEN YOUR SEATBELTS ON THE COACH

4.2 Driving



Activates and deactivates the battery main switch. Push the upper side to switch for give energy from battery to electrical system. Push the lower side to switch for deactivate the battery and stop the engine.

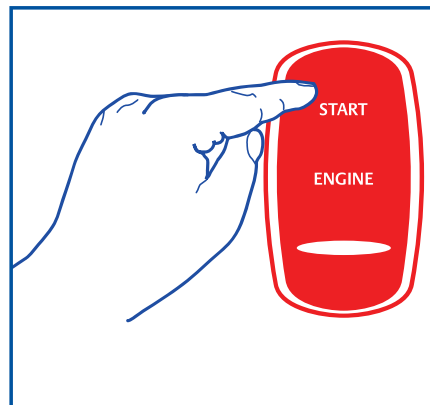
Starting the Engine

Check that parking brake is activated before starting the engine.

Push the ACC switch to activate electrical systems and check all the indicators and warning lamps on the instrument panel.

After performing all controls and adjustments, activate electrical systems and press the start switch.

Only start the engine when "Neutral" gear is engaged



WARNING

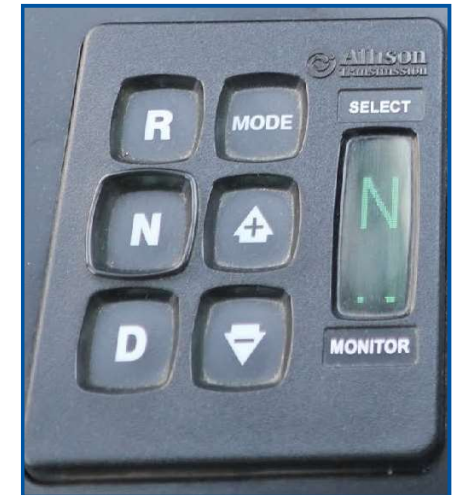
Do not apply accelerator pedal while starting the engine. ECM system might be affected adversely.



INFORMATION

- Steering wheel will lock up if it is rotated when the ignition key is removed.
- To release the steering wheel, switch the ignition key to position "1" or "2" while rotating the steering wheel to the left and right.
- When the ignition key is on position "2", wait until the "ABS" warning lamp turns off before starting engine.

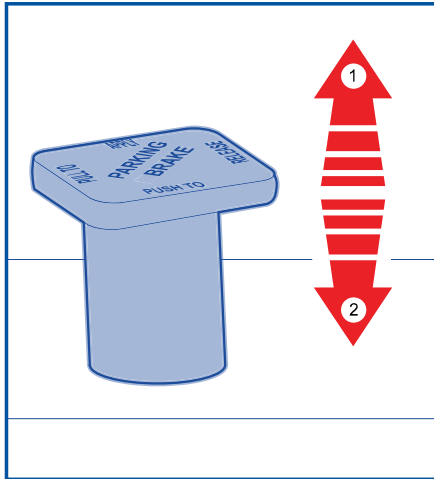
After starting the engine, apply the brake pedal and select gear according.



**PRESS BRAKE PEDAL
BEFORE SELECTING GEAR**

4.2 Driving

Push the brake lever downwards to release the parking brake.



Release the parking brake after starting the engine. Check that (P) the parking brake symbol located on instrument panel is off.

**HAND BRAKE RELEASE
USE TEMPORARY ONLY
DURING BRAKE FAILURE**



INFORMATION

Air is intended as an aid for braking. (P) The parking brake symbol does not extinguish until the required pressure of the tank is reached.

Vehicle is ready for driving. Release the service brake pedal gently. Check that brakes function properly before starting to drive.



INFORMATION

.For your safety, engaging the gears is not allowed unless service brake pedal is applied.

Slowing Down and Stopping

Use active retarder braking to reduce speeds on descents in addition to service brakes.



INFORMATION

These auxiliary brakes allow the vehicle to be slowed smoothly and almost free of brake wear.

Auxiliary brake systems cannot provide sufficient braking power to stop the vehicle. Stop the vehicle by applying service brake and then shift to "Neutral".



INFORMATION

Switch off the ignition when the vehicle is not used for extended periods.



WARNING

- Do not stop the engine immediately after stopping the vehicle. Run the engine in idle position for 3 minutes to allow the proper cooling and then stop the engine.
- Never allow unauthorized people to drive the vehicle. Remove the ignition key before leaving the vehicle.



WARNING

Never switch off the ignition while driving. This may cause the steering wheel to lock up.

4.2 Driving

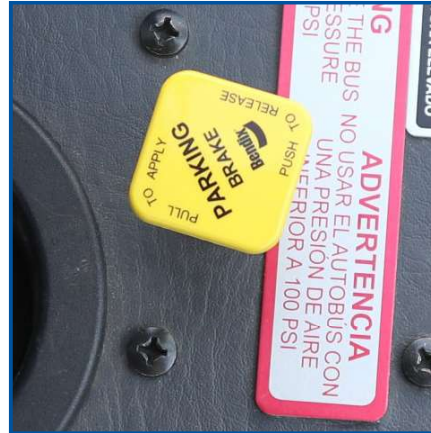
Parking

Activate the parking brake after stopping the vehicle.

Direct the tires towards the curb when parking downhill.

Direct the tires away from the curb when parking uphill.

Switch the ignition key to position "0" after stopping the engine and remove the key.



INFORMATION

ABS system will be deactivated when the parking brake is activated.

4.3 Emergency Situations

Additional emergency equipment is provided with the vehicle.

It is of vital importance to use and maintain the equipment properly.

Check that first aid kit and fire extinguisher are situated in correct positions.

Warning and information labels are provided inside the vehicle. Inform the passengers about these labels and what to do in event of emergency.

Engine Overheat



INFORMATION

Check the engine temperature regularly while driving. Temperature indicator is located on the instrument panel.

When the engine coolant temperature rises, stop the vehicle in an appropriate place and activate the parking brake. Turn the air conditioning off. Run the engine at idle speed until the coolant temperature drops to normal level. Open the radiator lid gently without stopping the engine.



4.3 Emergency Situations

Engine Overheat



WARNING

Never open radiator cap when the engine is hot.



HOT SURFACES

Accessible parts will be hot when the engine maintenance lid is opened.



SAFETY GLOVES

Wear protective gloves before touching these parts.



ROTATING PARTS

Some parts still rotate although engine has stopped. Check that all parts are stationary before touching.



VISUAL INSPECTION

Sudden rise in coolant temperature may indicate damage to the belt.



CONSULT AUTHORIZED SERVICE

Consult authorized TEMSA Service in such a case before driving.



CONSULT AUTHORIZED SERVICE

Consult authorized TEMSA Service if the engine does not run despite checking all controls and applications.

Engine Failure

Simple problems may cause failure of the engine. There are some applications that can be done before consulting the authorized TEMSA Service.



Emergency Stop Switch could be pressed.



Release the Emergency Stop Switch.



Check the Fuel Level. A low fuel level can affect the proper operation of the engine.



Fill the tank if necessary.



A weak battery can prevent the engine from running properly.



Check the battery connections and measure the battery charge level.



DPF reaches sufficient level of soot loading.



Manual Regeneration must be performed (See page 150)



High Exhaust System Temperature



The HEST Lamp is a reminder to the driver that the DPF outlet temperature is more than approximately 840°F. No actions are required.

4.3.1 Towing the Vehicle



INFORMATION

- Laws regarding towing the vehicle vary according to state laws.
- All applications must be done by taking the present state's rules into consideration.



WARNING

Technical knowledge is needed for towing. Only road recovery service must perform this application.



INFORMATION

- Maximum speed limit is 9 mph / 15 km/h for vehicles with braking problems.
- Maximum speed limit is 12 mph / 20 km/h for vehicles with no brake problems.



WARNING

Materials used for towing vary according to malfunction type.

- For vehicles with brake problems: Tow bar
- For vehicles without brake problems: Tow rope, Tow chain can be used.



WARNING

Drive axle shaft must be removed when coach is being towed to avoid possibility of damage to transmission.



INFORMATION

- Tow rope length can be 5 meters / 16,4 ft and tow bar length can be maximum 1 meter / 3,28 ft.
- Red warning signs must be attached on tow ropes longer than 2.5 meters/8.2 ft.
- If the lighting system of the towed vehicle is malfunctioning, a 0,65x0,65ft / 20x20 cm red reflector must be placed behind the vehicle.

In all towing applications:

- Insert the ignition key and switch to position "2".
- Run the engine to activate hydraulic steering wheel support and braking system.
- Do not activate retarder if engine is off.
- Remove the propeller shaft and shift to "Neutral" before towing process.
- Always tow the vehicle at low speeds.
- Resolve the problem mechanically in case of system air pressure malfunctioning (see also page 154).
- Check that tow rope, chain is parallel to the road during the towing process.

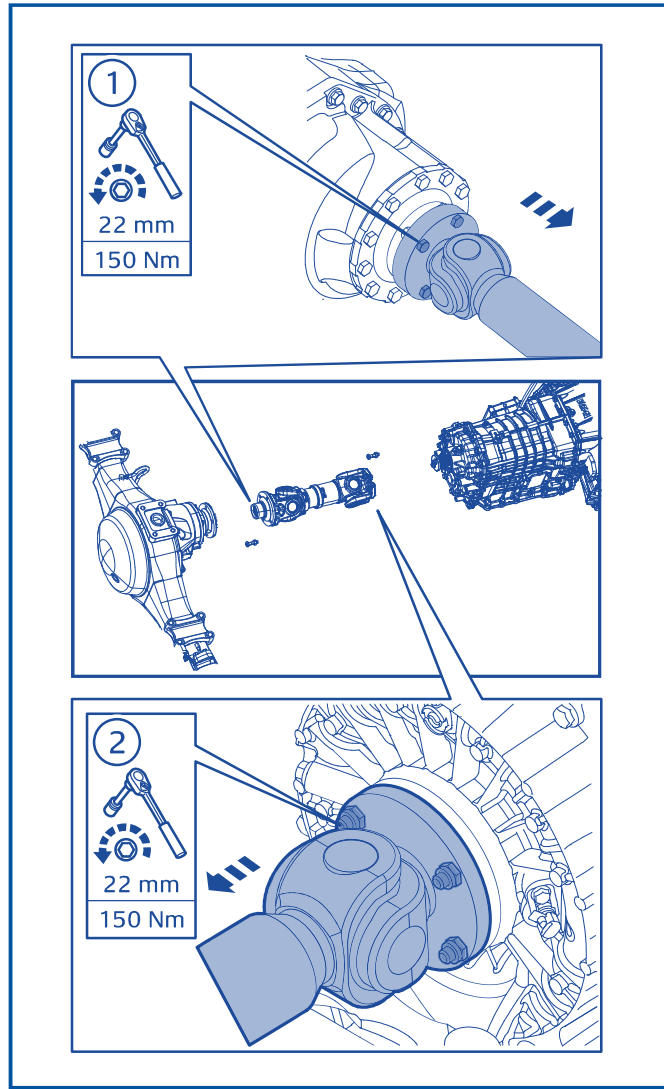


INFORMATION

At an ambient temperature below -15°C / 5°F, the maximally permitted towing speed is 3,11 mph / 5 km/h.

4.3.1 Towing the Vehicle

Removing the Propeller Shaft



1. Remove the propeller shaft, transmission connection nuts, then remove the propeller shaft from the transmission.
2. Remove the rear axle and shaft connection bolts and separate the shaft from the rear axle



WARNING

Parking brake can be locked when air pressure in air system is insufficient.
If parking brake is locked, please follow instructions on page 174.
Ensure the parking brake system functions before towing.



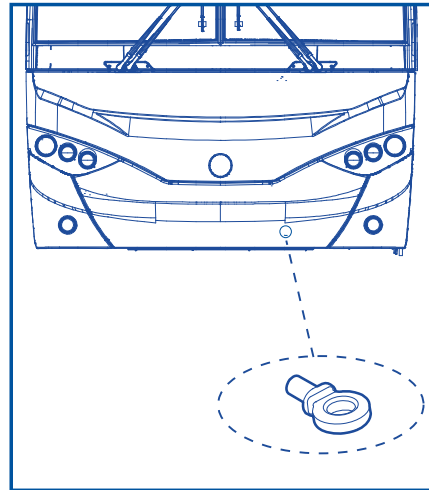
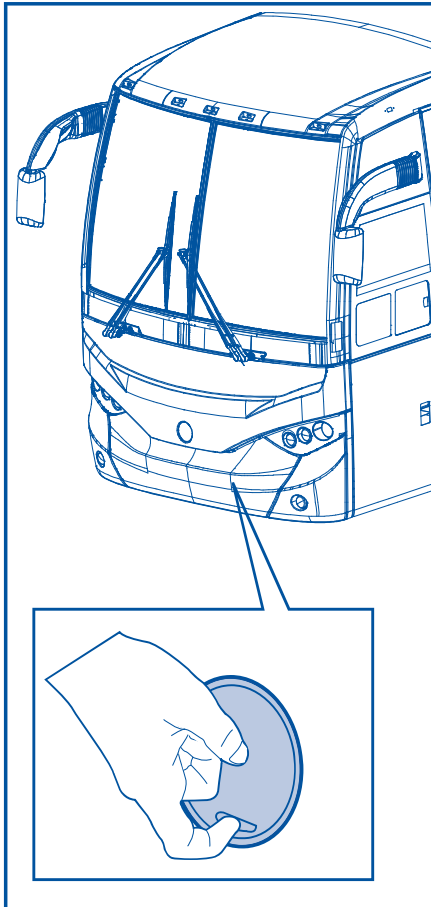
WARNING

After removal of the propeller shaft, place gearbox in a neutral position.

4.3.1 Towing the Vehicle

Access to Front Tow Hook

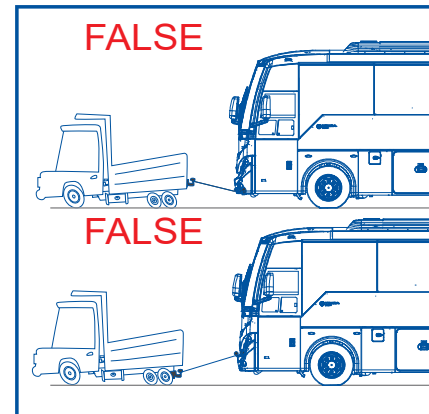
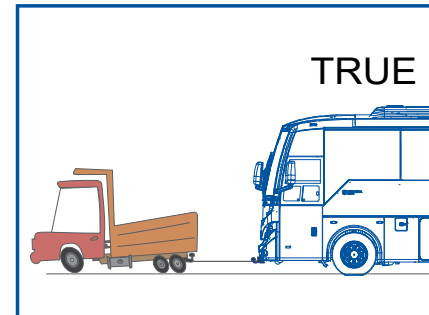
It is located at inside part of the front bumper. Pull the cover of tow located on front bumper and fix the tow hook.



First deactivate the parking brake. Switch the ignition key to position “2” and shift into “Neutral”.

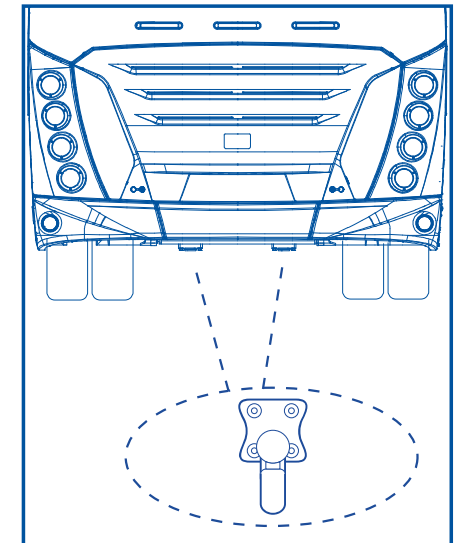
Ignition must be on position “1” or “2” during towing process. Never remove the ignition key, otherwise steering wheel will lock.

Make sure the tow rope is parallel to the road during the towing process. Otherwise, it may cause serious damage to the vehicle.

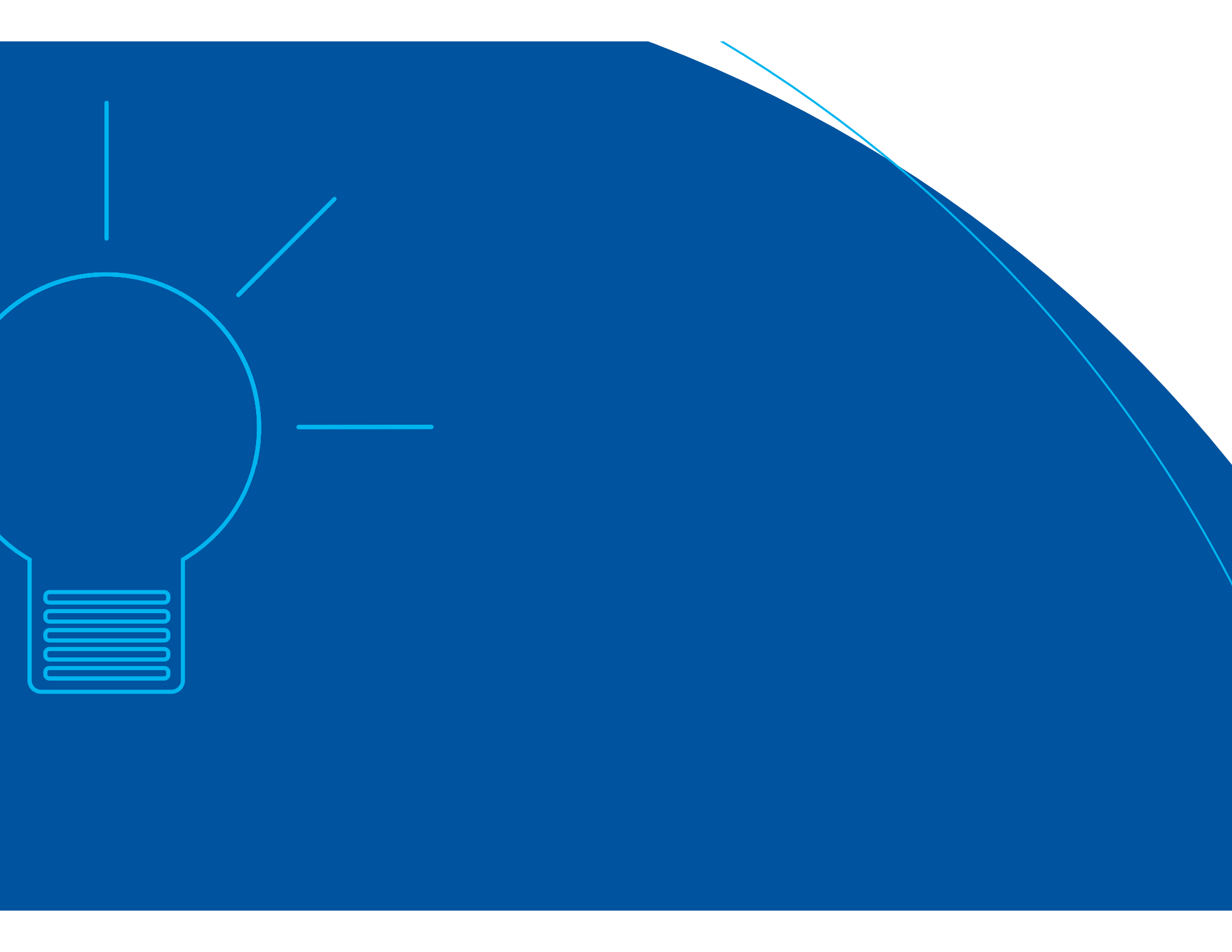


Access to Rear Tow Hook

It is located on rear bumper.



Use rear towing hook to tow any vehicle.



05

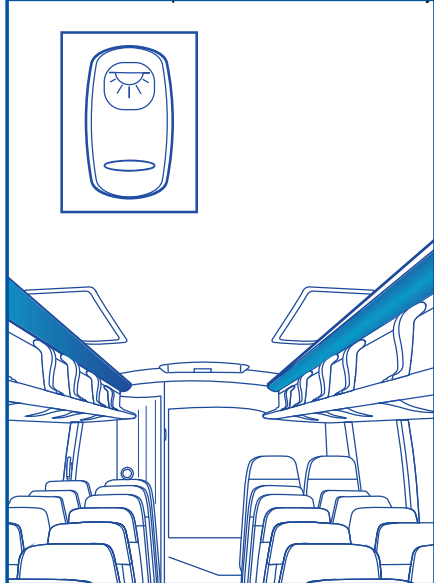
HEADLAMPS AND LAMPS

- 5.1 Internal Lamps
- 5.2 External Lamps
- 5.3 Illumination Lamps
- 5.4 Headlamps

5.1 Internal Lamps

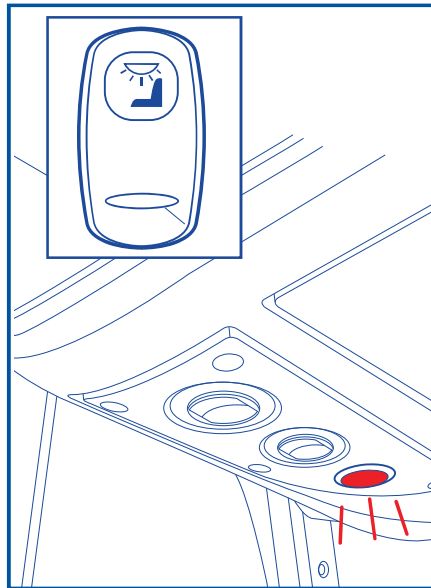
Corridor Lamps

Corridor lamps are controlled by



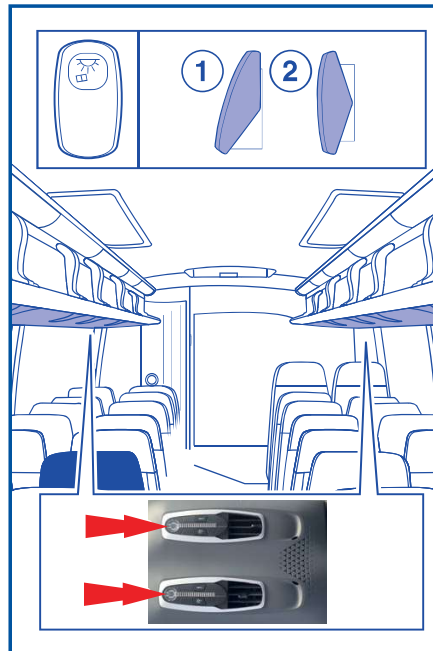
“INTERIOR LIGHT” switch located on the right control panel.

Driver's Reading Lamp



Driver's Reading lamps are controlled by “DRIVER'S READING LAMP” button located on the right control panel.

Passengers' Reading and Night Lamps



Passengers' Reading and Night Lamps are controlled by the “READING LIGHT” switch located on the right control panel.

Step Lamps



Step lamps are located on front steps. They light up automatically when the door is opened and lights turn off when the door is closed.

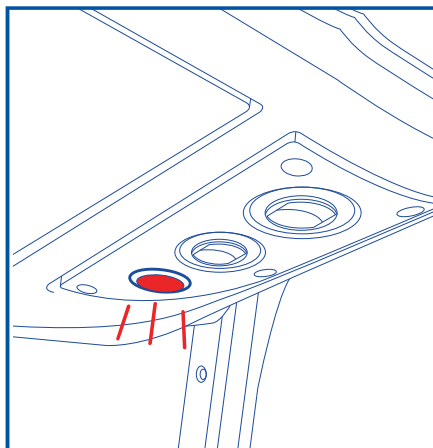


INFORMATION

Step lamps provide visibility when getting on and off the vehicle.

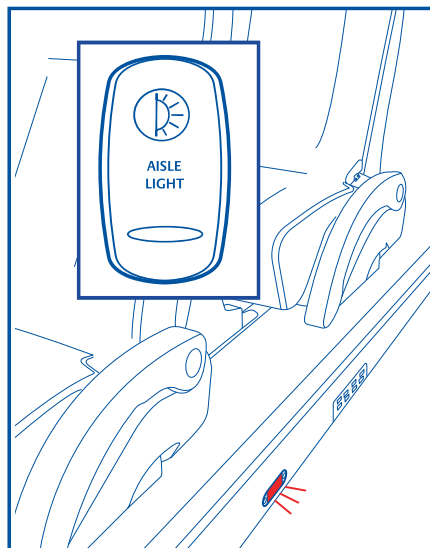
5.1 Internal Lamps

Entrance Illumination Lamp



Entrance Illumination Lamp is located above the door. It lights up when the door is opened and turns off when the door is closed.

Aisle Illumination Lamp



Aisle Illumination Lamps are controlled by "AISLE LIGHTS" button located on right control panel.

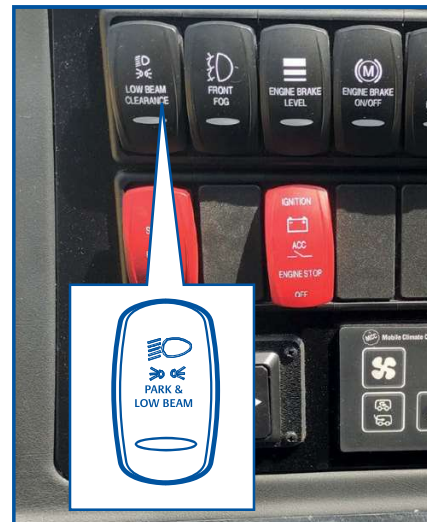


INFORMATION

If the Corridor Lighting is not on, the vehicle will not start.

5.2 External Lamps

Parking Lamps



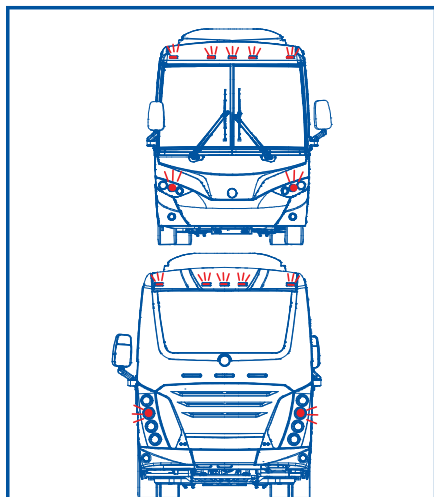
Parking lamps illuminate the exterior of the vehicle and make it visible to other drivers while parked. Press "PARKING LAMPS" button located on left control panel turn on parking lamps.



INFORMATION

Consult authorized TEMSA Service in case of parking lamp malfunction.

5.2 External Lamps



Brake Lamps

Brake lamps light up as long as the brake pedal is pressed.

Your vehicle is equipped with seven brake lamps, four are located at rear lamp group and three are at the center of the vehicle.



INFORMATION

Brake lamps also light up when the retarder brake system is activated and switched off when it is deactivated.



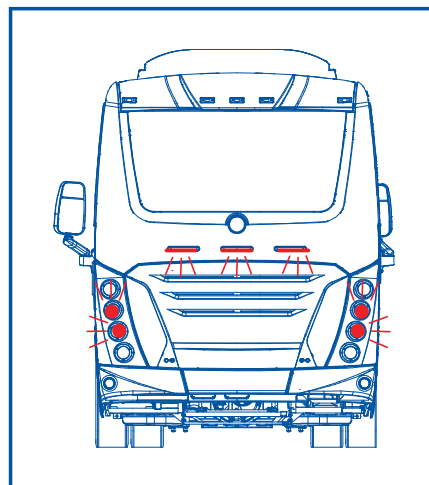
WARNING

Check that all brake lamps function properly before driving. Consult with authorized TEMSA service in event of malfunction.



WARNING

Never cover parking lamps with paint or decals.



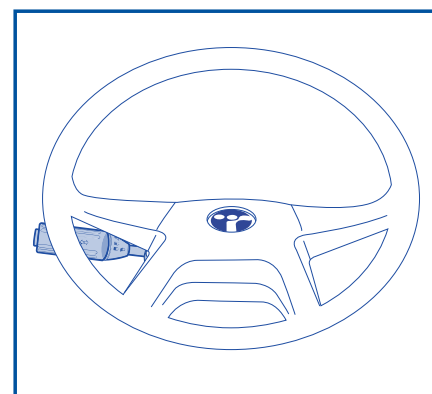
Turn Signal/Hazard Warning Lamps

Indicates to other drivers that the driver intends a lateral change of position. They are located: 2 on front and 2 at rear, 2 on each side.

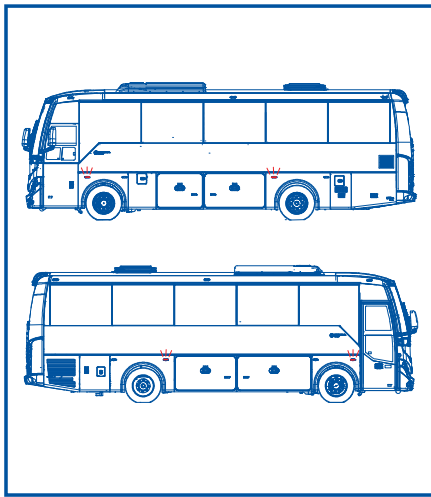
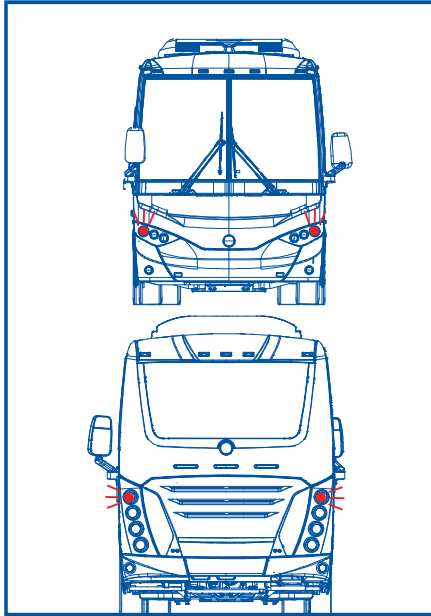


INFORMATION

- Indicators are controlled by left control lever located on the steering wheel control group.
- Consult authorized TEMSA Service in case of turn signal malfunction.



5.2 External Lamps



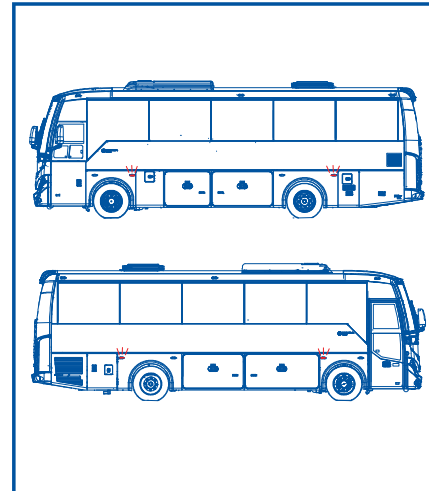
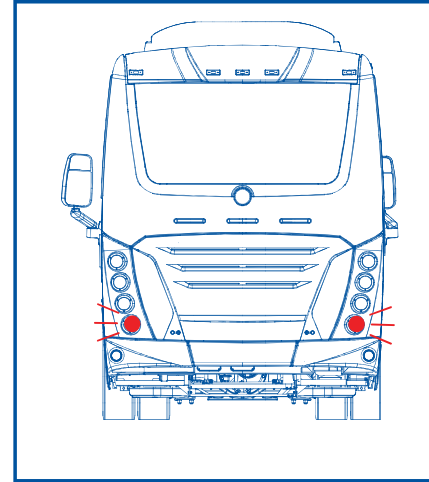
Rear Direction Indicator Lamp

Enables visibility of the vehicle for other drivers or pedestrians while driving in reversed direction.



INFORMATION

- Consult authorized TEMSA Service in case of rear direction indicator lamp malfunction.
- When the reverse gear is selected, hazard warning flashers start flashing and buzzer sounds.



5.3 Illumination Lamps

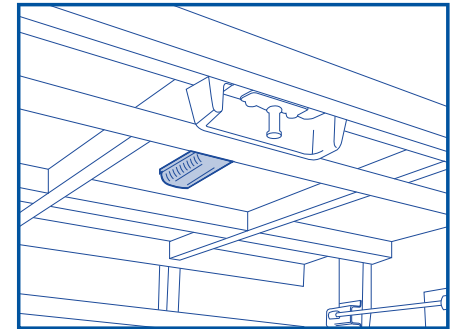
Luggage Compartment Lamps

Luggage Compartment Lamps turn on when the luggage compartment lids are opened. They turn off when the lids are closed.



INFORMATION

Ignition key must be on position "2" to light up luggage compartment lamps.



5.3 Illumination Lamps

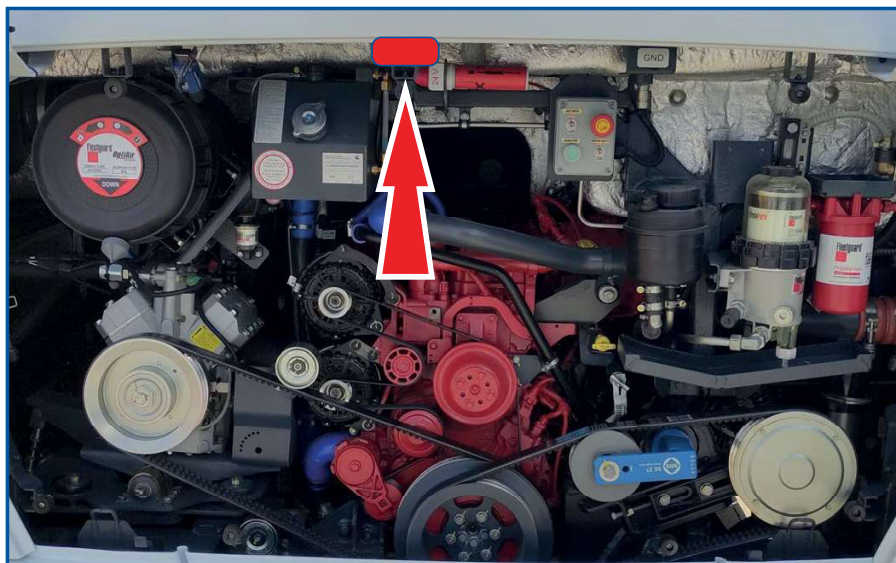
Engine Inspection Lamps

Two lamps light up when the engine maintenance main compartment lid is opened. They turn off when the lid is closed.



INFORMATION

Ignition key must be on position "2" to light up engine inspection lamps.



License Plate Lamps

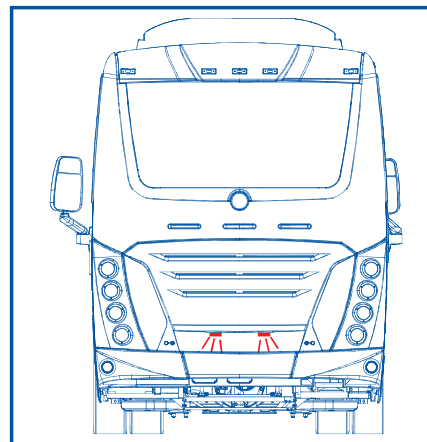
License plate lamps, light up when parking lamps are activated. They turn off when parking lamps are deactivated.

License plate lamps enable visibility of rear plate when driving in darkness.



INFORMATION

Consult authorized TEMSA Service in event of license plate lamp malfunction.



5.4 Headlamps

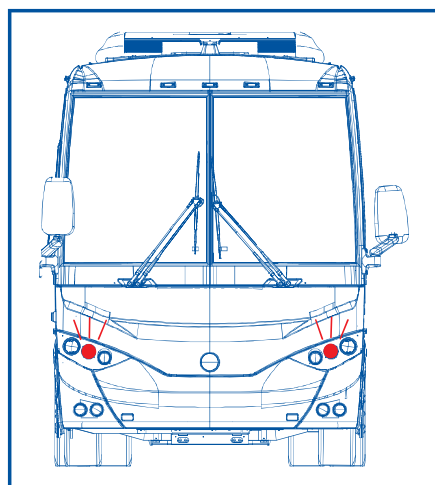
Lower Beam Headlamps

Lower Beam Headlamps provide medium visibility during driving.



5.4 Headlamps

High Beam Headlamps



Provide long range visibility during travel. See also page 52 to activate upper beam headlamps.



INFORMATION

Upper beams are used when the lower beams are insufficient to provide high visibility.



INFORMATION

- Position the “PARKING LAMP AND LOW BEAM SWITCH” located on the left control panel to the second level to turn on the lower beam headlamps.
- Consult authorized TEMSA Service in event of low beam headlights malfunction.



WARNING

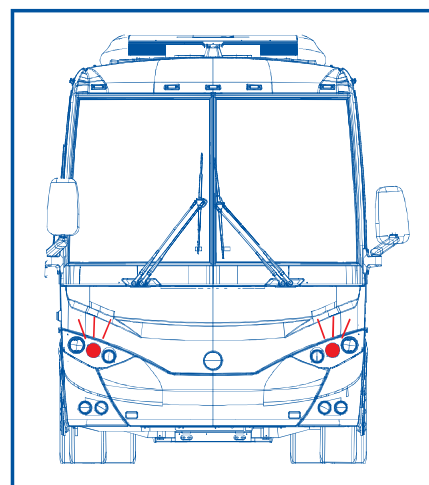
High beams will adversely affect the visibility of the driver on the opposite side. Never use the high beams if not necessary.



VISUAL INSPECTION



Indicator lamp located on warning panel activates as long as the upper beam headlamps are on.



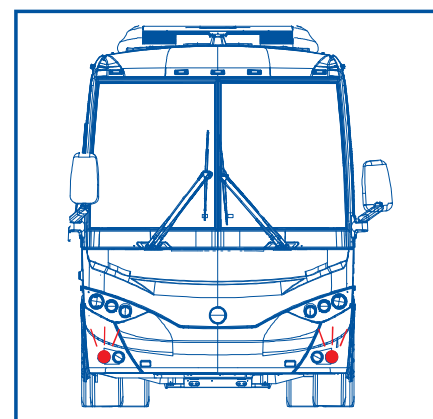
Front Fog Lamps (Optional)

Enables higher visibility of the front part of the vehicle in wintry conditions. Press “FRONT FOG LAMP” button located on left control panel to turn the fog lamps on.



INFORMATION

- Turn the fog lamps on only when required by weather conditions. Unnecessary use of fog lamps may cause accidents.
- Abide local laws.





06

DOORS AND LIDS

- 6.1 Front Door
- 6.2 Lids

6.1 Front Door

The locking mechanism is dedicated to open or close the doors from outside when engine is in ON or OFF position. Push the cap to the right to open. Insert the key to the socket, turn clockwise and then turn the locking lever clockwise.



WARNING

Never use door opening switches if the door is locked. This could result in damage to the locking mechanism.



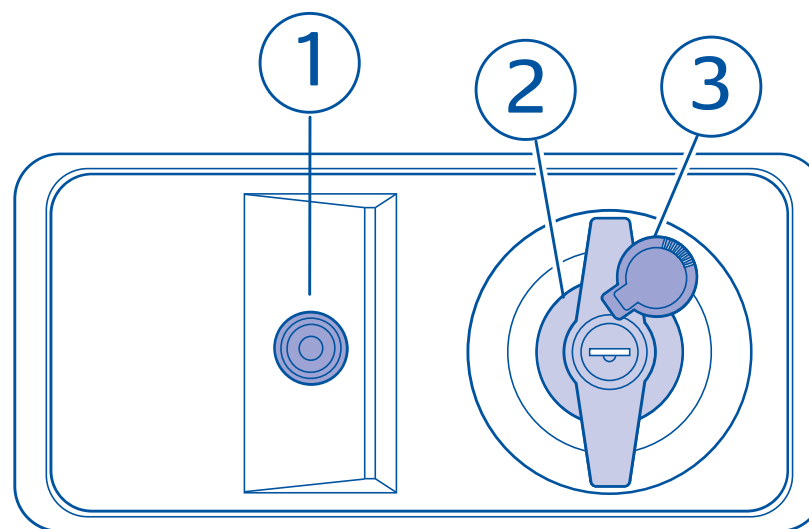
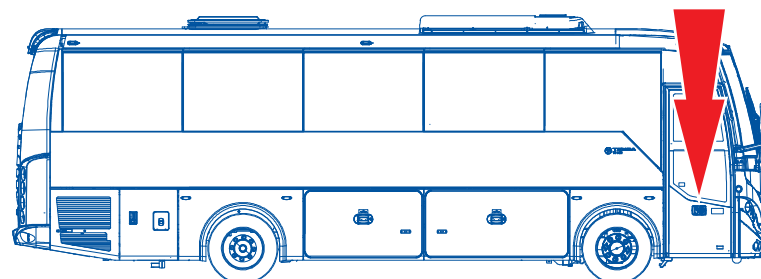
INFORMATION

Lock protection cap prevents dust, oil, etc. from contaminating the lock mechanism. Always keep the cap closed after use.

To lock the mechanism from outside, at first, rotate the lever counter-clockwise and release. Then insert the key in its socket and turn counter clockwise.

Press On/Off switch to open the door. Press switch to close the door from outside.

1. On/Off Switch
2. Locking Lever
3. Lock Protection Cap



6.1 Front Door

Manually Opening, Closing

The air release mechanism is dedicated to open or close the door from outside.

The switch located on the fuel tank maintenance hatch. Rotate the lever clockwise to release.



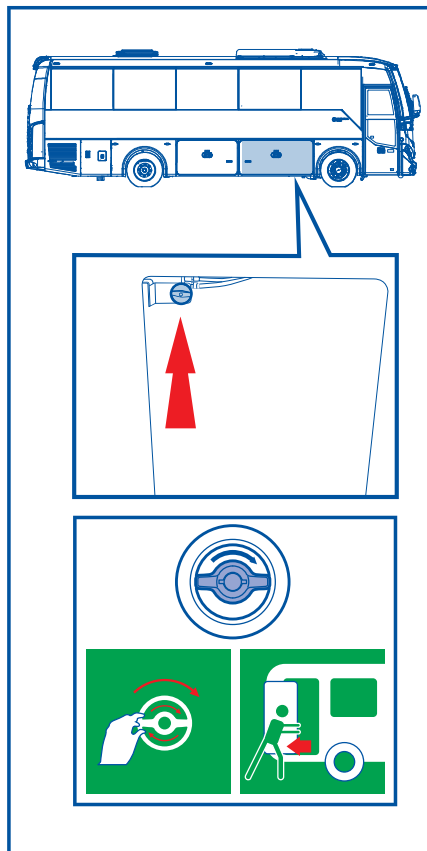
WARNING

Never use door opening switches if the door is locked. This could result in damage to the locking mechanism.



INFORMATION

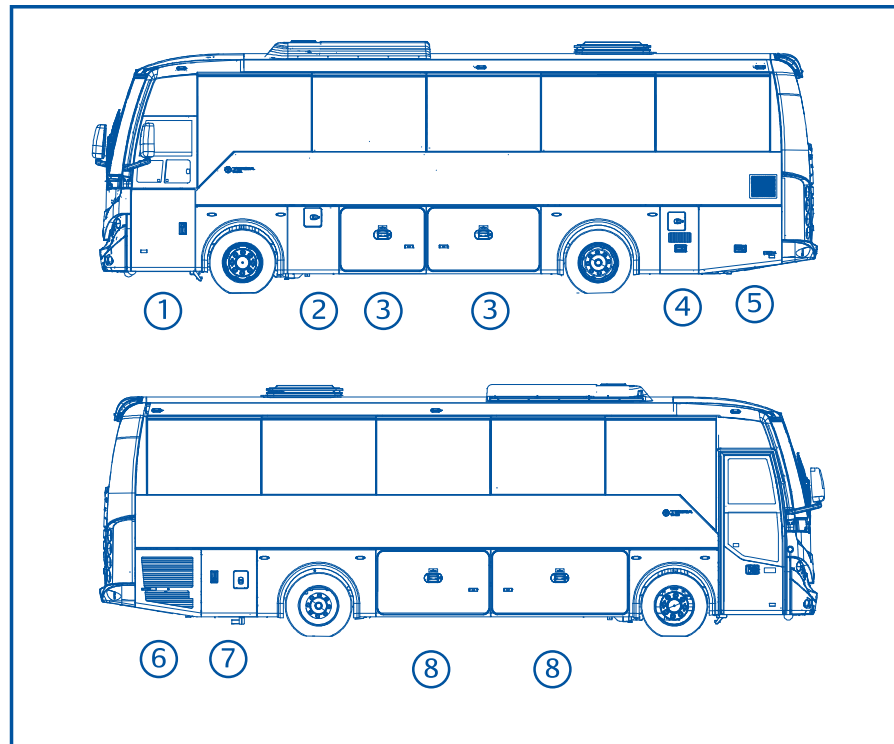
Lock protection cap prevents dust, oil, etc. from contaminating the lock mechanism. Always keep the cap closed after use.



INFORMATION

The number of air release mechanisms may vary according to the vehicle type.

6.2 Lids



1. Emergency Situation Equipment Lid
2. Fuel Tank Maintenance Lid
3. Left Side Luggage Lids
4. AdBlue and DPF Maintenance Lid
5. Engine Maintenance Right Lid
6. Radiator Maintenance Lid
7. Battery Maintenance Lid
8. Right Luggage Lids



WARNING

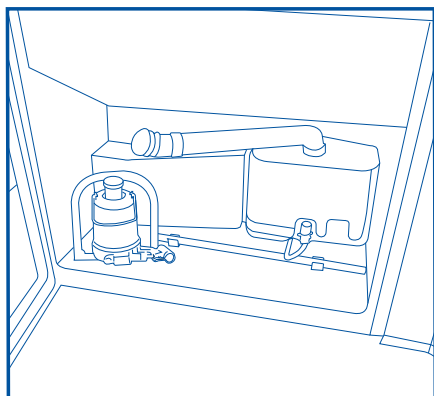
Ensure that all lids are locked, before driving.

6.2 Lids

Emergency Situation Equipment Lid

The locking mechanism is dedicated to locking or unlocking the lid.

Insert the key in its lock and turn counter-clockwise. To open the lid pull it until it stops, press the latch to release the locking mechanism and continue to pull sideways movement.



WARNING

- Always hold the handle while opening and closing the lid. To prevent injury do not hold edges or inner parts of lid.
- Do not use this area for storage.

Battery Maintenance Lid

The locking mechanism is dedicated to locking or unlocking the lid.

Insert the key in its lock and turn counter-clockwise. To open the lid pull it until it stops, press the latch to release the locking mechanism and continue to pull sideways movement.



WARNING

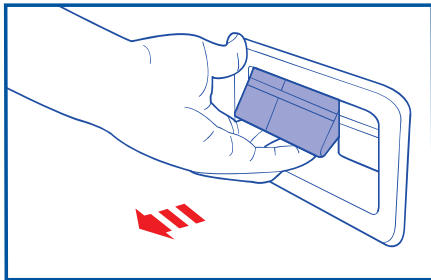
- Always hold the handle while opening and closing the lid. To prevent injury do not hold edges or inner parts of lid.
- Do not use this area for storage.

6.2 Lids

Left Side Luggage Lids

The locking mechanism is dedicated to locking or unlocking the lid.

Insert the key in its lock and turn counter-clockwise. Pull the handle as shown in the figure and lift the lid.



Push the lid downwards and turn the key clockwise to lock the mechanism.



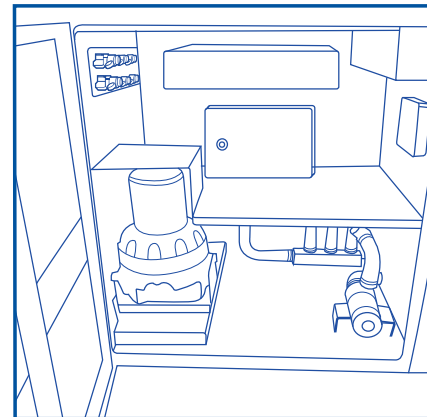
WARNING

Always hold the handle while opening and closing the lid. To prevent injury do not hold edges or inner parts of lid.

Test Point and Air Dryer Maintenance Lid

The locking mechanism is dedicated to locking or unlocking the lid.

Insert the key in its lock and turn counter-clockwise and pull the lid sideways.



Push the lid and turn the key clockwise to lock the mechanism.



WARNING

- Always hold the handle while opening and closing the lid. To prevent injury do not hold edges or inner parts of lid.
- Do not use this area for storage.

6.2 Lids

Radiator Maintenance Lid

The locking mechanism is used to lock or unlock the cap. Use the luggage compartment key to open the cap. This key is used to both open and lock the radiator cap.



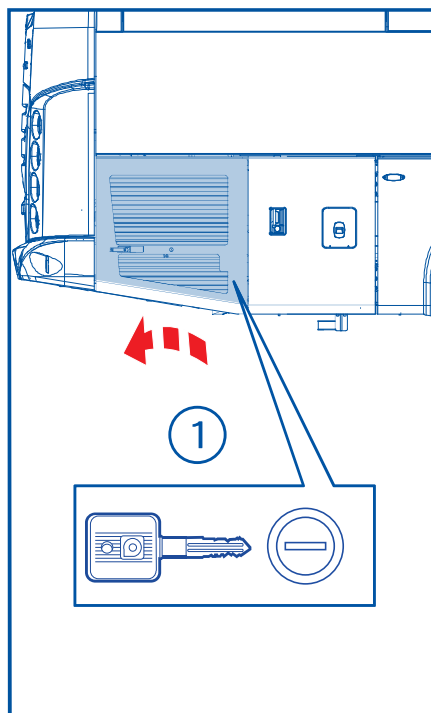
HOT SURFACES

When opening the engine maintenance lid beware of hot surfaces.



WARNING

To prevent injury never hold edges or inner parts of lid while closing.



6.2 Lids

AdBlue and DPF Maintenance Lid

The locking mechanism is dedicated to locking or unlocking the lid.

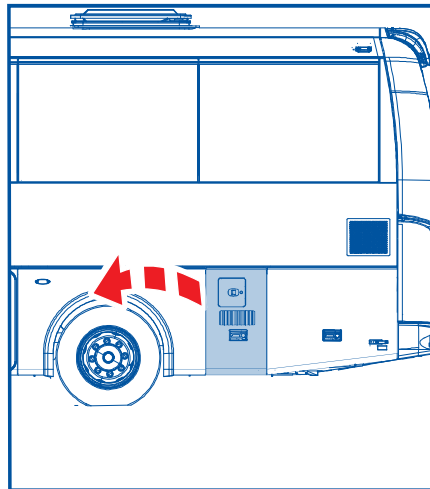
Insert the key in its lock and turn counter-clockwise. To open the lid pull it until it stops, press the latch to release the locking mechanism and continue to pull sideways movement.



WARNING

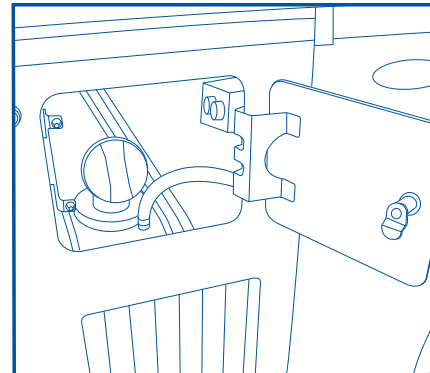
- Always hold the handle while opening and closing the lid. To prevent injury never hold edges or inner parts of lid while closing.
- Do not use this area for storage.

Push the lid and turn the key clockwise to lock the mechanism.



AdBlue Outer Lid

The locking mechanism is dedicated to locking or unlocking the lid. To open the lid turn the key counter-clockwise and pull upwards, to close push and turn the key clockwise.



WARNING

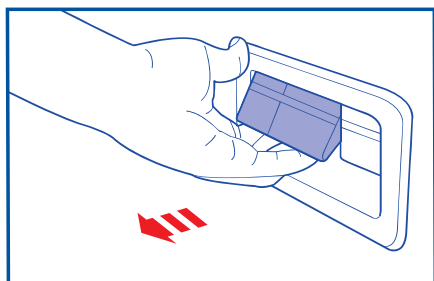
- Always hold the handle while opening and closing the lid. To prevent injury never hold edges or inner parts of lid while closing.
- Do not use this area for storage.

6.2 Lids

Right Luggage Lids

The locking mechanism is dedicated to locking or unlocking the lid.

Insert the key in its lock and turn counter-clockwise. Pull the handle as shown in the figure and lift the lid.



Push the lid downwards and turn the key clockwise to lock the mechanism.



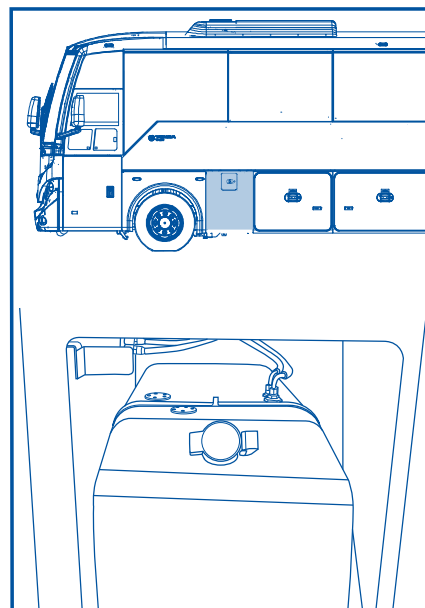
WARNING

Always hold the handle while opening and closing the lid. Never hold edges and inner parts of the lid. Your hand may get caught.

Fuel Tank Maintenance Lid

The locking mechanism is dedicated to locking or unlocking the lid.

Insert the key in its lock and turn counter-clockwise. To open the lid pull it until it stops, press the latch to release the locking mechanism and continue to pull sideways movement.



Push the lid and turn the key clockwise to lock the mechanism.

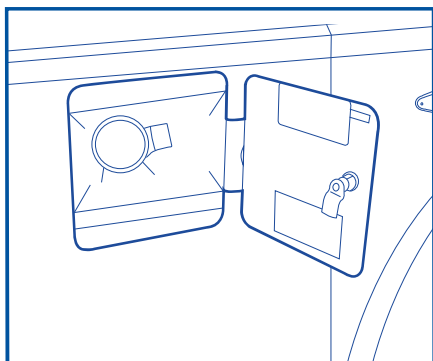


WARNING

- Always hold the handle while opening and closing the lid. To prevent injury never hold edges or inner parts of lid while closing.
- Do not use this area for storage.

Fuel Tank Outer Lid

The locking mechanism is dedicated to locking or unlocking the lid. To open the lid turn the key counter-clockwise and pull upwards, to close push and turn the key clockwise.

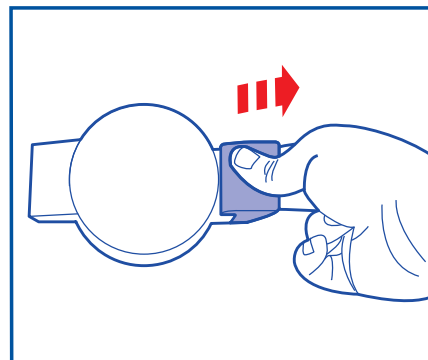


INFORMATION

Fuel tank outer lid is located at outer part of the fuel tank maintenance lid.

Fuel Tank Cap

Push the handle to the right to open fuel tank cap.



WARNING

Spring mechanism is provided on the cap. When the handle is pushed, cap is released automatically.

6.2 Lids

Engine Maintenance Lid

The locking mechanism is dedicated to locking or unlocking the lid.

To open the lid turn the key clockwise and pull the handle to open, to close push and turn the key anti-clockwise.



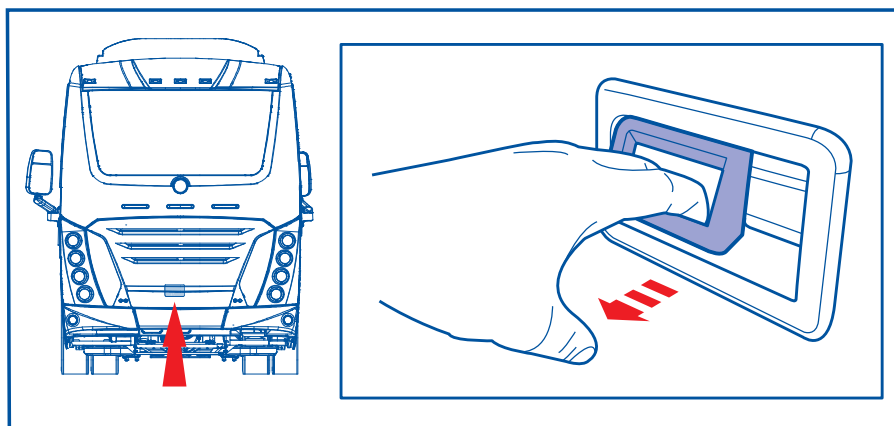
HOT SURFACES

When opening the engine maintenance lid beware of hot surfaces.

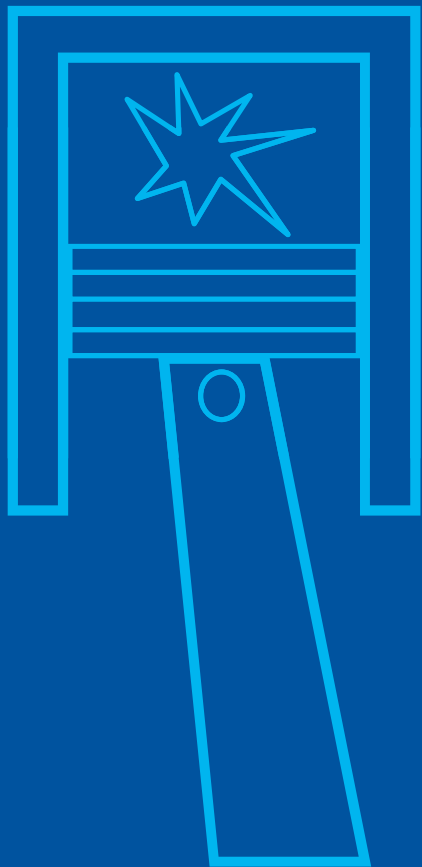


WARNING

- Always hold the handle while opening and closing the lid. To prevent injury never hold edges or inner parts of lid while closing.
- Do not use this area for storage.



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07

ENGINE

- 7.1 General Information
- 7.2 Expansion Tank
- 7.3 Drive Belts
- 7.4 Engine Oil Dipstick
- 7.5 Air Filter
- 7.6 Steering Wheel Hydraulic Oil Tank
- 7.7 Engine Control Panel
- 7.8 DPF Regeneration
- 7.9 Engine Compartment Automatic Extinguisher System

7.1 General Information

Your vehicle is equipped with diesel technology which is designed to provide a safe, economical and efficient driving experience.

Safety Warnings

Check that general safety rules, all warning signs and information are taken into consideration before performing any work in the engine compartment.



WARNING

Occupational knowledge and experience is required for replacing drive belts and adjusting belt tension. Information given in this section is intended for people with technical knowledge and competence at required level. Please consult authorized TEMSA Service for all matters regarding drive belts and engine compartment.



WARNING

- Never allow unauthorized people to drive the vehicle. Remove the ignition key before operating on the engine compartment.
- Always stop the engine and wait until it's cold before performing any work in the engine compartment.
- Performing work when the engine is **hot** may cause burning or injury.

Safety Switch

Prevents the start up of the engine and avoids possible accidents when the maintenance lid is opened.



7.2 Expansion Tank

High temperature formed during the operation of the engine is decreased by engine coolant.



Open the engine maintenance lid to access the expansion tank.

High temperature formed in engine compartment decreases whereas the engine coolant temperature increases. Engine coolant expands due to temperature differences.

Expanding coolant will form steam inside the system. Over-pressurized steam is released automatically through expansion safety exits located on the top of the tank.

Engine Coolant



WARNING

- Check the engine coolant temperature from the instrument panel before performing any operations on the expansion tank. Never loosen or remove the expansion tank cap if the engine temperature is hot. Pressurized steam may escape from tank.
- Never remove the expansion tank cap completely at once. Turn the cap slowly to release the pressurized steam. Then remove the cap completely.



Engine coolant level is checked by sensor inside the expansion tank. “Cooling water low” warning lamp activates in case of insufficient coolant level.



INFORMATION

Check the coolant level when the engine is cold. Coolant level must not be below “MINIMUM” sign on the tank.



WARNING

Coolant level increases as its temperature rises. Over-filled tank may overflow.

Includes distilled water, antifreeze and corrosion inhibitor. Distilled water and anti-freeze mixing ratio varies according to weather conditions. Less antifreeze is needed in warmer conditions than for colder conditions. Use table as reference. The water used as coolant must be soft and well filtered.



WARNING

Engine coolant must be replaced periodically by authorized TEMSA Service.

Freeze Protection Temperatures for Antifreeze Concentrations (1)

Protection to:	Concentration
-15 °C (5 °F)	30% glycol, 70% water
-24 °C (-12 °F)	40% glycol, 60% water
-37 °C (-34 °F)	50% glycol, 50% water
-52 °C (-62 °F)	60% glycol, 40% water

⁽¹⁾ Ethylene glycol-based antifreeze



INFORMATION

- Using antifreeze is crucial for the performance of the vehicle.
- Using antifreeze in summer would reduce corrosion and sedimentation inside the engine.
- Never fill up the tank with just antifreeze.
- In addition to this, antifreeze protects the engine against overheating as it increases the boiling point of water.



WARNING

- Addition or replacement processes of engine coolant must only be performed by authorized TEMSA Service.
- Contact with engine coolant may cause irritation on skin and eyes. If this occurs seek medical help.”

7.3 Drive Belts

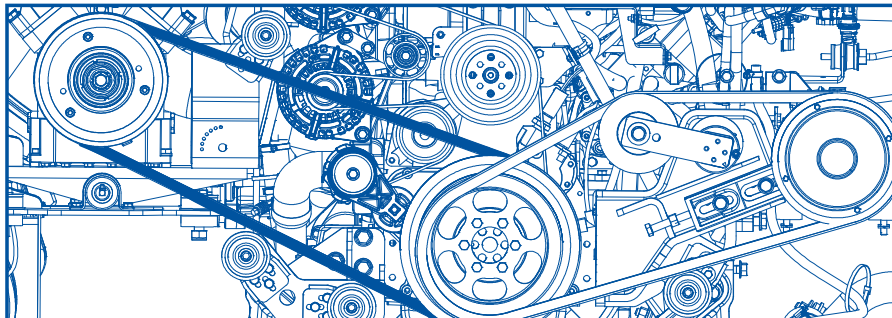
Drive belts must only be removed and replaced by authorized service personnel. All operations explained in this section must be carried out when the engine is stopped. Engine compartment temperature increases as long as the engine runs. Therefore wait till the engine temperature drops to room temperature before performing any operations in this compartment.

Three main drive belts are located on the engine:

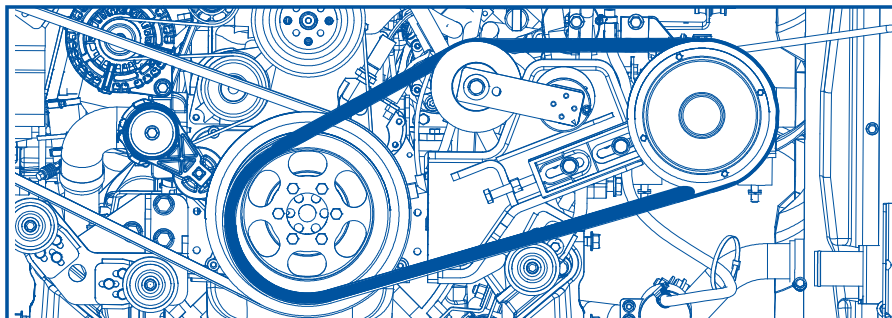
1. Air Condition Compressor Drive Belt
2. Fan Drive Belt
3. Alternator Drive Belt

Occupational knowledge and experience is required for replacing drive belts and adjusting belt tension. Information given in this section is intended for people with technical knowledge and competence at the required level. Please consult authorized TEMSA Service for all matters regarding drive belts and engine compartment.

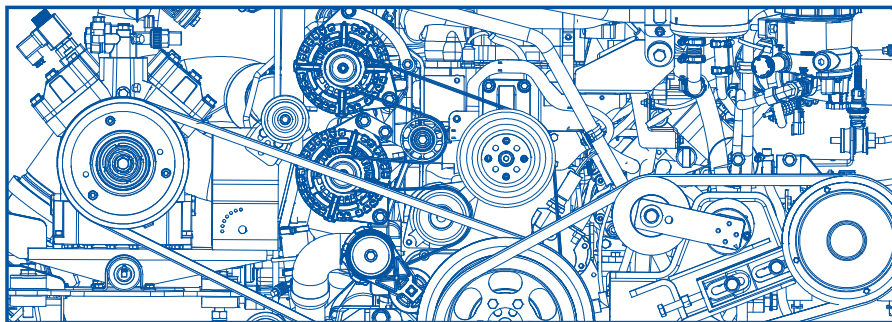
Air Conditioner Compressor Drive Belt



Fan Drive Belt

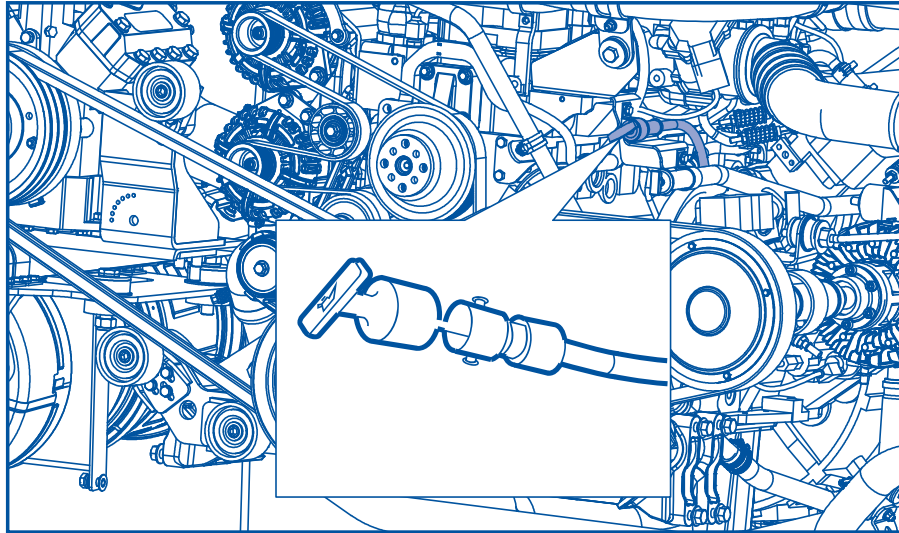


Alternator Drive Belt



7.4 Engine Oil Dipstick

Oil dipstick is located on the engine. Open the engine maintenance lid to access the stick.



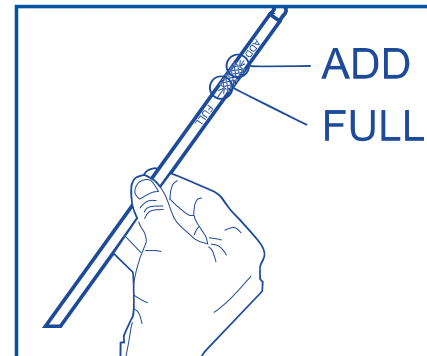
VISUAL INSPECTION

Torn or cracked cylinders may cause leaks resulting in water and oil mixing.



INFORMATION

Always wait for at least 15-30 minutes after stopping the engine.



Rotate the stick clockwise and pull out after it is released. Maximum and minimum markings are located at the end of the stick. Oil level is determined by the lines.



PROTECT THE ENVIRONMENT

- Disposal of engine oil should be done according to the hazardous waste disposal regulations.
- Take necessary precaution to avoid oil overflow while adding engine oil to the system.

Park the vehicle on level ground to get an accurate oil level reading. Stop the engine. Wait until cools down so that the oil can flow back in to the oil sump. Pull out the dipstick and clean with a clean cloth. Insert the stick into its socket. Pull out the dipstick again. Check whether the oil level is between the ADD and FULL markings. Check the engine oil level regularly.

7.5 Air Filter

Air filter is located in the engine compartment.



INFORMATION

For more information about air filter maintenance and replacement (see page 180).



Air filter is formed of three sections:

Body: Air filter is located inside this chamber.

Cap: Separates the filter from the surrounding.

Filter: Removes solid particles and foreign substances from the air.

7.6 Steering Wheel Hydraulic Oil Tank



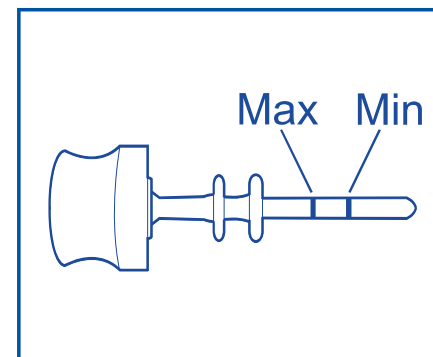
The oil dipstick and oil filler cap are located on the steering wheel hydraulic oil tank.



PROTECT THE ENVIRONMENT

- Disposal of steering oil should be done according to the hazardous waste disposal regulations.
- Take necessary precaution to avoid oil overflow while adding steering oil to the system.

Oil Dipstick



Oil level inside the steering hydraulic system must be between two indication markings. Lower marking indicates minimum level and upper one indicates maximum level.

MAX: Highest level allowed.

MIN: Lowest level allowed.

Oil Filler Cap

Turn the cap anti-clockwise to remove and fill oil.
Turn the cap anti-clockwise to remove and have access to replace steering hydraulic tank filter.



WARNING

To reinstall the cap, turn clockwise.



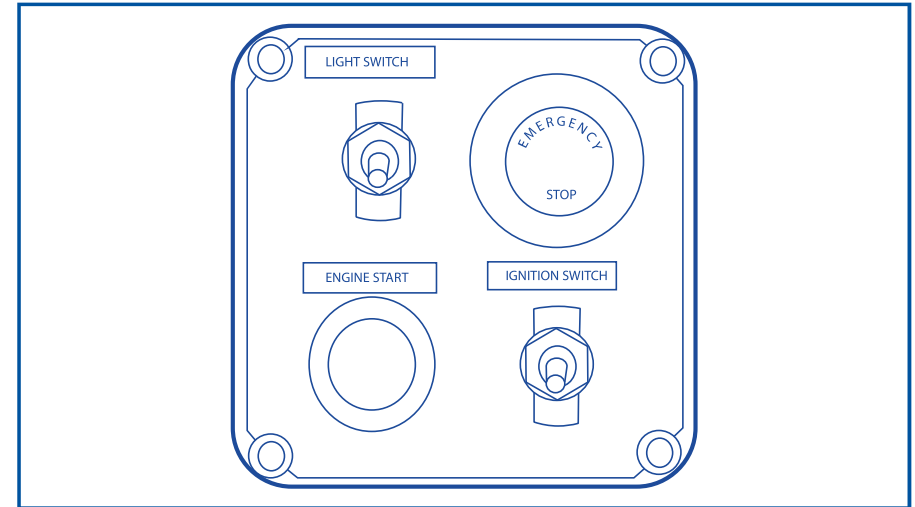
INFORMATION

Check the steering hydraulic oil level periodically.

7.7 Engine Control Panel



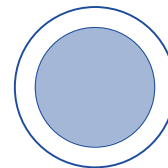
Your vehicle is equipped with a control panel to run the engine during maintenance work.



To start the engine from rear:



Turn "Ignition Switch" to "ON" position.



Start engine by pressing "Engine Start" button.

To stop the engine:



Press "Emergency Stop" button to stop the engine.



WARNING

Rotate "Emergency Stop" button clockwise to bring it into first position and turn "Ignition Switch" to "OFF" position after stopping the engine.

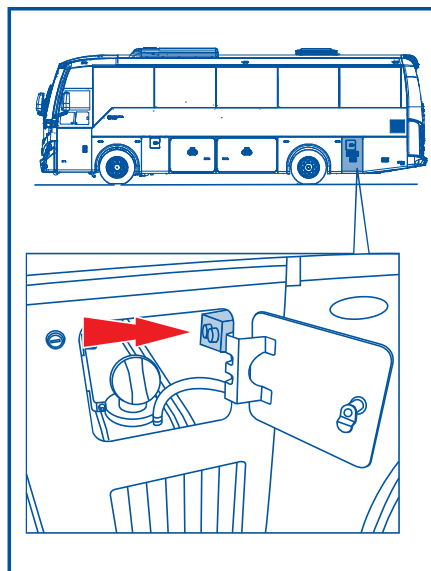
7.8 DPF Regeneration

The vehicles are equipped with Automatic DPF Regeneration. If for any reason an automatic regeneration has not happened and DPF soot loading reaches a specified limit, the DPF lamp start to flash and the “Check Engine Lamp” lights up. At this point, engine requires a manual regeneration.

- Verify the following conditions are met in the vehicle:
 - The brake pedal is released.
 - The transmission is in neutral or park.
 - The vehicle speed is 0 MPH.
 - The throttle pedal is released.

Manual Regeneration

- Select an appropriate location to park the vehicle (such as clean concrete or gravel, not grass or asphalt)
- Park the vehicle away from anything that can burn, melt or explode.
- Park the vehicle securely. Place the transmission in park, if provided, otherwise in neutral. Set wheel chocks at front and rear of at least one tire.
- Keep a fire extinguisher nearby.
- Check the exhaust system surfaces. Confirm that nothing is on or near the exhaust system surfaces (such as tools, rags, grease, or debris).



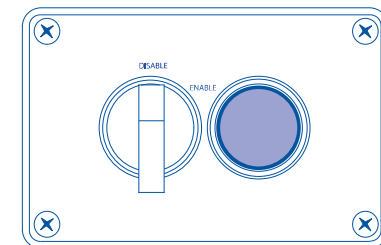
DPF Regeneration switch is located on AdBlue tank maintenance lid. The Regeneration switch must be pressed for four seconds Black switch has to be stay always in OFF position.

Monitor the vehicle and surrounding area during the manual regeneration. If any unsafe condition occurs, shut off the engine immediately.



WARNING

If the DPF Lamp and Check Engine Lamp do not turn off after a complete manual regeneration, contact your authorized TEMSA Service.



7.9 Engine Compartment Automatic Extinguisher System

Your vehicle is equipped with an automatic extinguisher system which is activated automatically in case of a fire.

Extinguisher system contains detector tube and extinguisher cylinder. To prevent a possible fire, extinguisher system is activated automatically and extinguishant is sprayed in the engine compartment.



OPTION

This feature is optional. It may not be included in all models.



WARNING

A regular program for system maintenance must be established for continuous, proper operation of all engine compartment automatic extinguisher system units, and to prevent voiding the warranty.

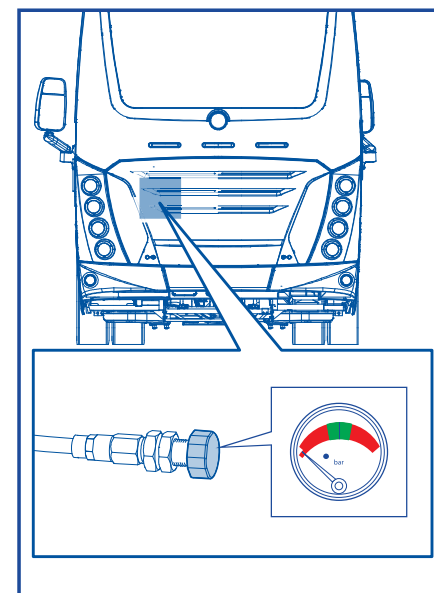
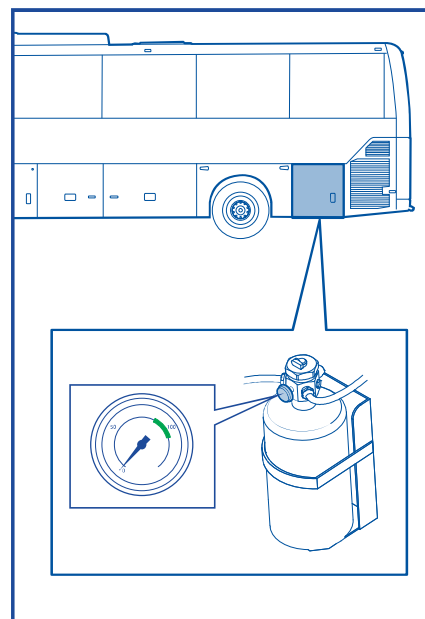
In case of fire break out on engine compartment room, warning lamp lights up on instrument panel and fire alarm sounds.

See page 70 for more information about actions to be taken in the event of a fire.



WARNING

Detector tube and extinguisher cylinder have manometers. The pressure can be read from a manometer and should be within the green sector. Manometers should be controlled regularly. Consult authorized TEMSA Service to control engine compartment extinguisher system.



WARNING

Please contact authorized service for all matters regarding Engine Compartment Automatic Extinguisher System. Fire extinguisher with high pressure will drain out. It may cause serious injury.



INFORMATION



Engine compartment automatic extinguisher system should be checked monthly. See also Warranty and Maintenance. Manual for more information about Engine Compartment Automatic Extinguisher System maintenance.



08

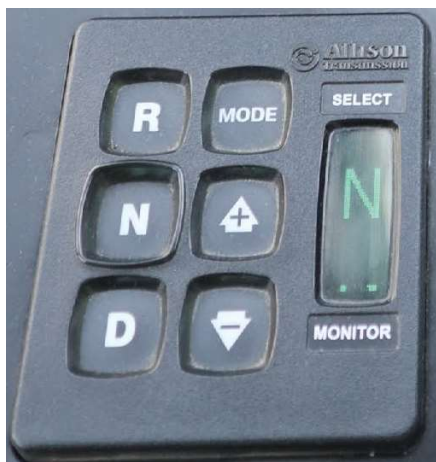
TRANSMISSION

8.1 Automatic Transmission

8.1 Automatic Transmission

When initially selecting positions Upshift, Downshift, D or R, press firmly on the brake pedal to ensure that the vehicle is stationary with the engine idling.

The gear selector should not be downshifted to 1 and 2 at speeds above 49 mph (80 km/h).



Reverse Gear Button

Press button to reverse the vehicle. Continue braking when the vehicle is stationary and neutral gear is engaged. Press reverse gear button. Move your foot gently off the brake pedal and move the vehicle backwards.



WARNING

Never select R while the vehicle is in forward motion.



Neutral Gear Button

Press button to disconnect the transmission from the wheels so the vehicle can move freely under its own weight. Parking brakes can be used when neutral gear is shifted.



INFORMATION

When ambient temperature is below -15 °C/5 °F keep the engine running in idle speed until the engine temperature reaches 40 °C/104 °F.



Forward Gear Button

Press button to allow the vehicle to move forward and accelerate through its range of gears. D is the normal driving position and should be used as often as possible to help improve fuel economy.



Gear Display

Actual gear is displayed on the right hand side and desired gear is displayed on the screen.



INFORMATION

Push D for forward or R for reverse to shift the transmission into a desired range or gear temperature reaches 40 °C/104 °F.



INFORMATION

The transmission will not shift into a range from Neutral or between D and R if the engine's RPM is over 1000 rpm.

8.1 Automatic Transmission

Stop and Change Direction

The vehicle must be stopped before reversing. Keep the brake pedal pressed before shifting between Forward and Reverse gear modes.

- Move your foot off the accelerator pedal.
- Apply service brake till the vehicle stops.



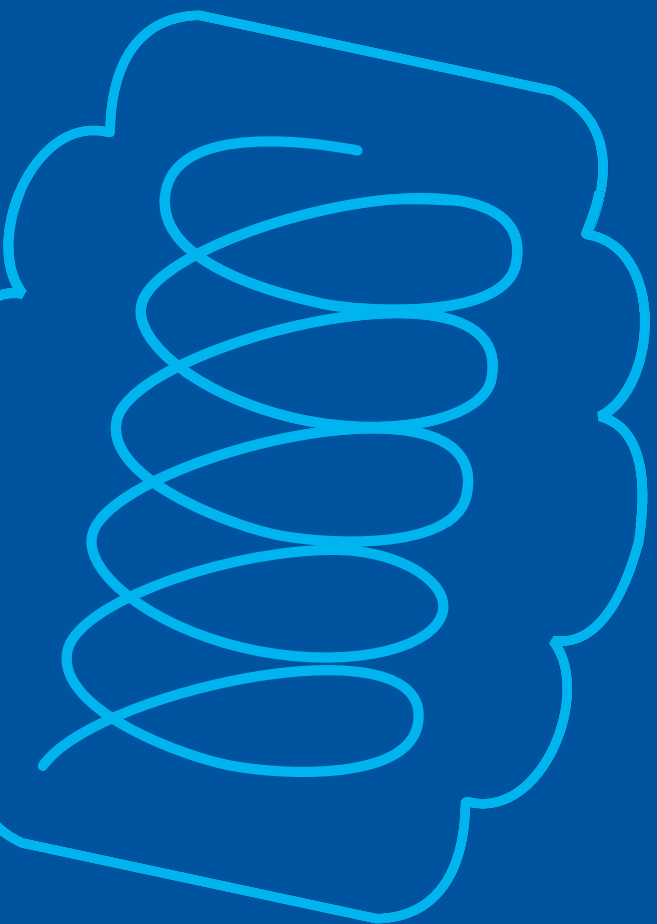
INFORMATION

For short term stopping use the service brake, for longer stops shift into neutral gear and use service brake.



WARNING

If the driver should leave the driver compartment with the engine running, Neutral (N) gear must be engaged and parking brake must be activated.”



09

SUSPENSION

- 9.1 Kneeling-Lifting
 - 9.1.1 Front Kneeling
 - 9.1.2 Lifting

9. Suspension

The suspension system of your vehicle is composed of:

At the front:
2 Air Bellows,
2 Suspensions,
1 Stabilizer.

At the Back:
4 Air bellows,
4 Suspensions.

Air bellows and suspensions provide comfortable driving and additional safety when cornering.

Stabilizer



INFORMATION

- Stabilizers preserve vehicle stability on sharp curves and during sudden maneuvers.
- Stabilizers minimize vehicle swaying and lurching on sharp curves.
- Stabilizers restrict the vehicle from swerving during sudden braking.
- Stabilizers disable the wheels to sway in different directions when the axles of the vehicle are damaged during driving.

Air Bellows



INFORMATION

Air bellows provide stability for the vehicle.

Air compression value on the air bellows other than recommended by authorized TEMSA Service may damage the air bellows.



WARNING

Prevent any contact with substances which may damage the air bellows, such as oil, diesel, dirt etc.

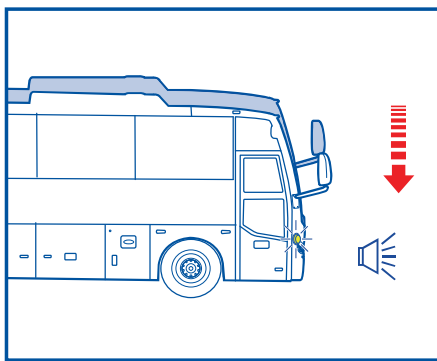


CONSULT AUTHORIZED SERVICE

Stop the engine and consult authorized TEMSA Service in event of air bellow malfunction.

9.1 Kneeling-Lifting

Air bellow compression can be changed in order to adjust the vehicle body height from the ground.



INFORMATION

The bus is equipped with kneeling system that consist of an outside warning lamp at the frame of front door and a buzzer. Kneeling lamp flashes and beeps during kneeling when system is active.



WARNING

- Do not continue driving if you encounter a problem with the KNEELING-LIFTING system.
- Before jacking up the vehicle, deactivate the KNEELING - LIFTING system.



CONSULT AUTHORIZED SERVICE

Consult authorized TEMSA Service in case of kneeling-lifting malfunction.

9.1.1 Front Kneeling

Your vehicle is equipped with a Front Kneeling System to ease the entering and exiting of passengers.



INFORMATION

Body height can be decreased by maximum 80 mm/3,14 inch.



INFORMATION

If Kneeling system was activated, transmission won't engage.

Kneeling Lifting button enables adjustment of body leveling. The warning lamp on the button lights up as long as the kneeling-lifting operation is being performed. Press lower side of KNEELING-LIFTING button located on the left control panel to decrease the body height.



9.1.2 Lifting

Your vehicle is equipped with a Lifting System.

Enables adjustment of body leveling. The warning lamp on the button lights up as long as the kneeling-lifting operation is being performed. Press upper side of KNEELING-LIFTING button located on the left control panel to increase the body height.

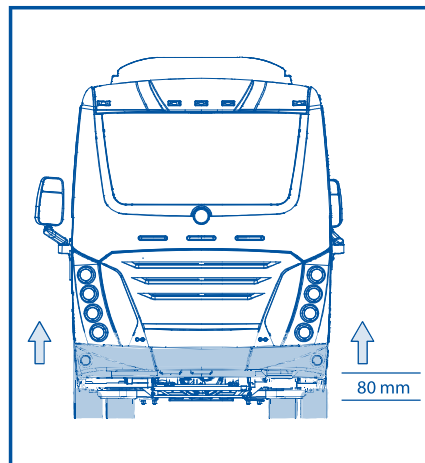
Lifting function is restricted to 12.5 mph.

The vehicle will automatically return to normal driving conditions when the vehicle speed exceeds this speed ratings.

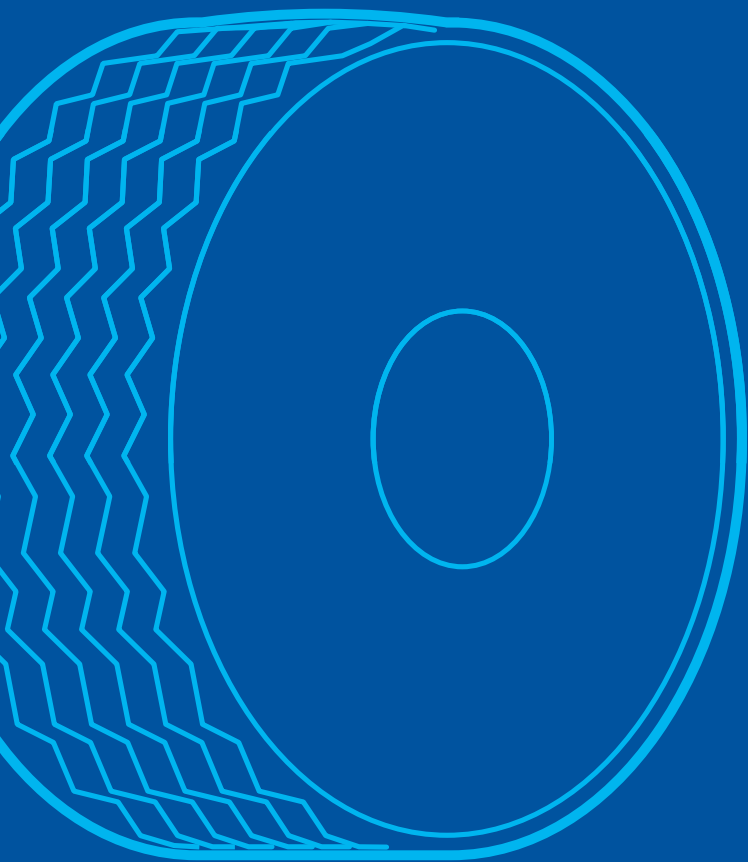


INFORMATION

Body height can be increased by maximum 80 mm/3,14 inch.



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10

TIRES

- 10.1 Tires
- 10.2 Tire Pressure
- 10.3 Checking Tire Pressure
- 10.4 Snow Tires
- 10.5 Snow Chains
- 10.6 Changing Tires
- 10.7 Shifting Tires

10.1 Tires

Tire specifications are coded with a letter system AAA/BB/C/D.

AAA: First Letter - General Use and Type of Tire.

BB: Middle Letter - Tire Profile Ratio (Height and Width Ratio)

C: Last Letter - Tire Construction Type

D: Second Letter - Rim Diameter (in inches) This letter is usually a number between 13 and 22 and represents the diameter of the rim on which the tire will be mounted. The vehicle's tire code is: 295/70R 19.5' Therefore, tires with a width of 295 millimeters, 70% width ratio, radial type and 19.5 inches were used.



WARNING

- Exceeding tire load capacity or the maximum speed specified for the vehicle may cause tire damage.
- In such a case control of the vehicle would be reduced or completely lost.
- Check dimensions, type, capacity and speed values of tires specified for the vehicle.

Tire Specifications

TPC Spec (Tire Performance Criteria Specification) for your vehicle is E13 0010833.

DOT (Department of Transportation) ensures that tire complies with U.S. department of Transportation motor vehicle safety standards. DOT code for your vehicle is PA87 AA2W.

TIN (Tire Identification Number) indicates plant code, tire size and manufacture date of the tire. Tire Identification Number for your vehicle is 562742.

Tire Ply Material: Indicates type cord and number of plies in the sidewall and under the tread. Tire ply material code for your vehicle is LR H.

Maximum Cold Inflation Cold Limit: 112,4 psi



WARNING

Never use tires which do not have TPC spec number.

Front

Single Tire Maximum Load indicates maximum pressure for maximum load capacity of a single tire. Single Tire Maximum Load for your vehicle is 3550 kg (7830 lbs) at 775 kPa (112,4 psi) cold.

Rear

Dual Tire Maximum Load indicates maximum pressure for maximum load capacity of a tire in a dual configuration. Dual Tire Maximum Load for your vehicle is 3150 kg (6940 lbs) at 775 kPa (12,4 psi) cold.



INFORMATION

The tires (and/or wheels) installed on this vehicle at the factory as original equipment are certified for Greenhouse Gas and Fuel Efficiency regulations. Replacement tires (and/or wheels) must be of equal or lower rolling resistance level (TRRL or Crr) (and/or weight). Consult with your tire supplier(s) for appropriate replacement tires (and/or wheels).



INFORMATION

According to FMCSA 393.75 standart:

Any tire on the front wheels of a bus shall have a tread groove pattern depth of at least 4/32 of an inch when measured at any point on a major tread groove. The measurements shall not be made where tie bars, humps or filters located.



INFORMATION

In order to limit the rolling resistance of the tires and thereby optimize fuel economy, the maintenance procedures specified by the tire manufacturer must be followed. As owner or operator, your vehicle and equipment should be properly maintained and in good working order.

Repair and replacement of vehicle components should be done to the original manufacturer's specifications to ensure proper function of the vehicle. Tire replacement should be with tires of equal, or better, rolling resistance performance than the tires originally equipped on the vehicle. Consult with the tire manufacturer for tire specifications.

10.2 Tire Pressure

Tire pressure directly affects the road handling, so it is of vital importance to apply correct tire pressure.

Specified (cold) tire pressure is 112,4 psi (775 kPa).



WARNING

Tire pressure increases while driving. Check tire pressure when tires are cold.



PROTECT THE ENVIRONMENT

Proper tire pressure reduces the fuel consumption and exhaust emissions.

10.3 Checking Tire Pressure

Check the tire pressures before prolonged driving.

Check the tire pressures once a week when they are cold.

Always check the tire pressures with a pressure gauge. Appearance of the tire can be misleading.

The wrong tire pressure will have an effect on safety.



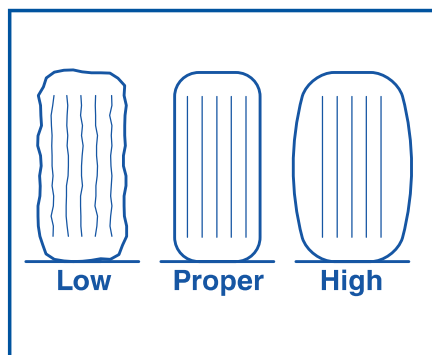
WARNING

Pressures of tires on the same axle must be equal to maintain the brake stability. Having different pressure values may cause inaccurate and instable braking power.



VISUAL INSPECTION

Check the tires visually and ensure that they are in good conditions.



10.4 Snow Tires

It is suggested to use snow tires to provide better traction on snow and ice.

10.5 Snow Chains

When the road conditions demand it, this increase safety and handling of the vehicle.

Fit snow chains to tires as tight as possible. When using snow chains, avoid driving in hilly terrains.

Check snow chain tensions regularly after driving. Readjust tightness if necessary.



WARNING

- Extremely high tire pressure increases wear of tires, braking distance and reduces road handling.
- Tire pressure rises after prolonged driving especially in hot conditions. Do not deflate the tires when they are hot. Pressure adjusted in hot conditions might be insufficient in cold conditions.
- Objects such as nails, gravel etc. inside the tire treads may cause continuous deflation of tire pressure. Check the tires regularly.



WARNING

- Extremely Low Tire Pressure causes tire overheating, increases fuel consumption and reduces road handling.
- Overloaded tires with extremely low pressure have a high risk of deflation.
- Extremely low tire pressure can deteriorate the tire condition and could cause the tire to release from the rim fixation.



WARNING

Snow chains may adversely affect control of the vehicle. Avoid sudden acceleration and deceleration when snow chains are used.



WARNING

Use of snow chains must comply with prevailing national regulations.



WARNING

- Read the mounting instructions of the chain manufacturer. Ensure that snow chains fit correctly. Do not use the vehicle with snow chains at high speeds.
- Fit snow chains to snow tires if necessary.
- Remove rim covers before fitting snow chains. Chains may cause rim cover damage.

10.6 Changing Tires

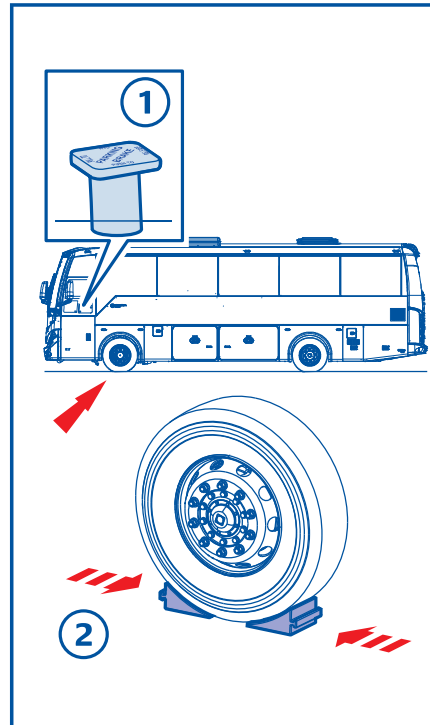
Park the vehicle appropriately and take all necessary actions before changing a wheel.

Vehicle jack, wheel chock, and auxiliary equipments required for tire replacement are provided inside the emergency equipment compartment.



WARNING

- Check that vehicle is immobilized before replacing tires.
- Use gloves during removal or installation of wheels to prevent injury to your hands.

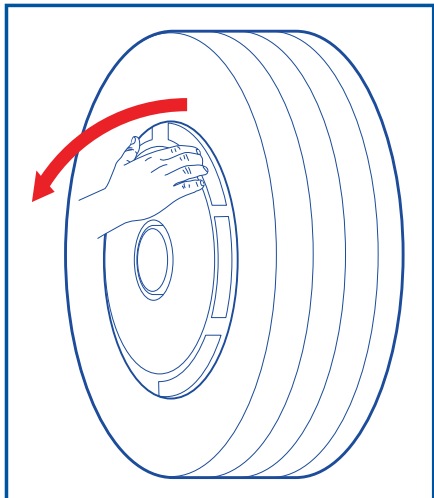


Apply parking brake and secure the vehicle with wheel chocks by positioning them under the wheels that are not to be changed.

10.6 Changing Tires

Remove the rim covers

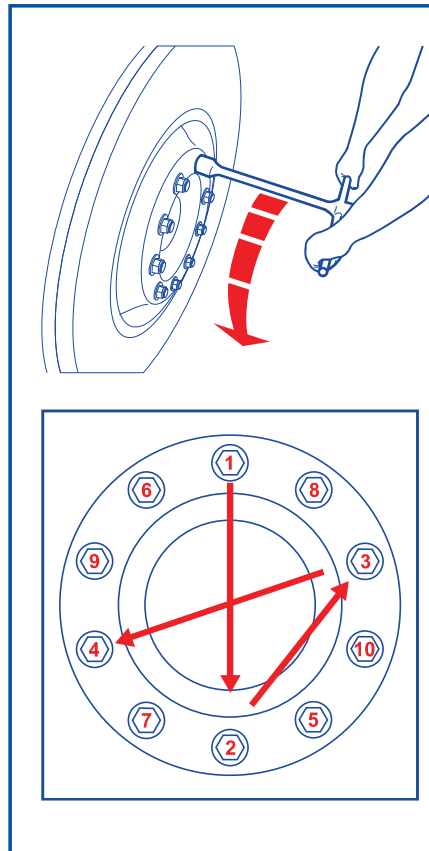
First ensure the vehicle is secure and then remove the rim cover of the wheel to be changed.



Hold the safety spring behind the hub cap and pull it outwards. Remove the hub cap.

Loosen the wheel nuts

Loosen all the wheel nuts with a lug wrench in a crosswise pattern.

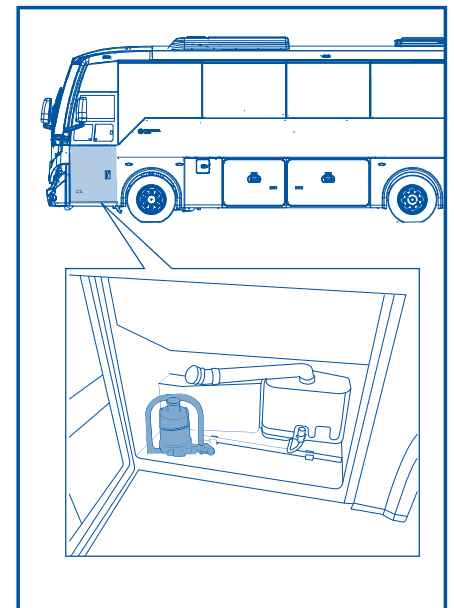


INFORMATION

Lug wrench is located inside the toolbox in the emergency equipment compartment.

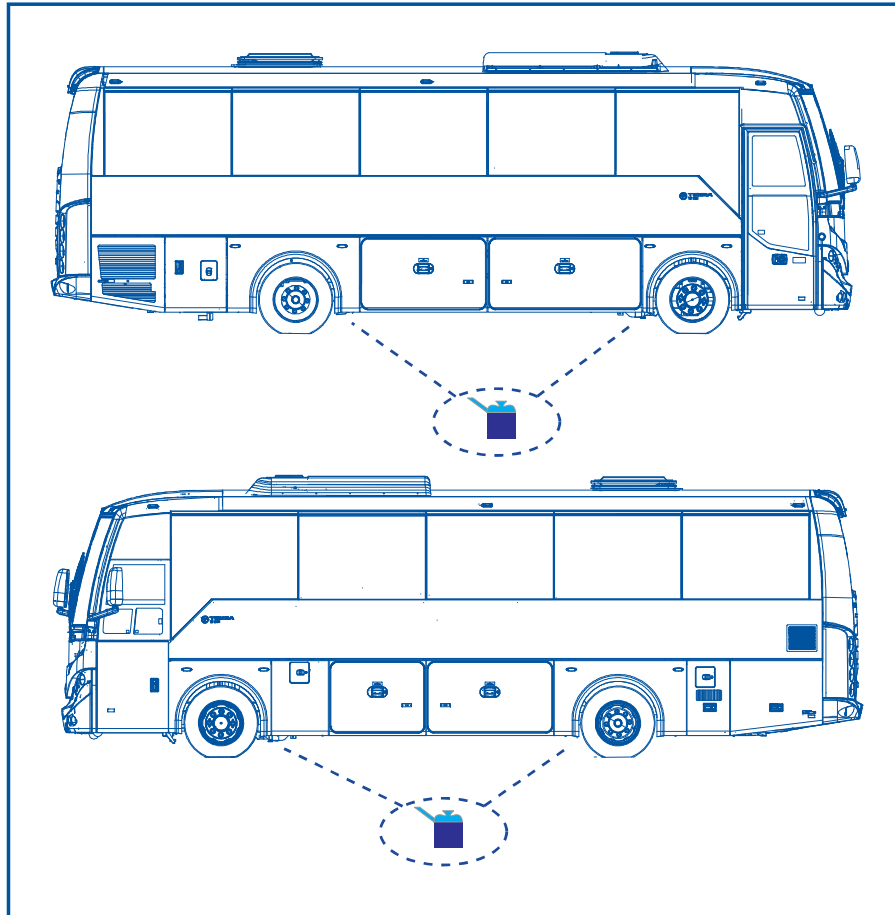
Use of jack

Rotate the screw counter-clockwise and push the jack piston downwards to release the jack.



10.6 Changing Tires

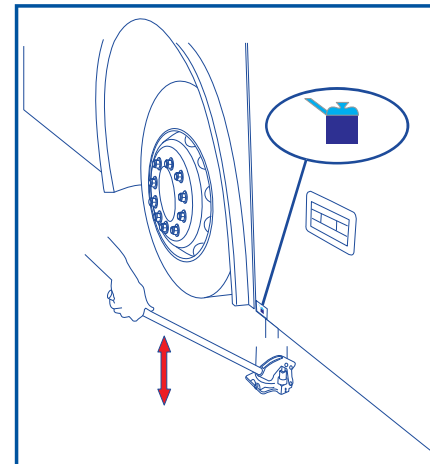
Jacking up the vehicle



WARNING

- Never jack up the vehicle before checking that the jack screw is tightened well. Otherwise, this may cause severe injuries.
- After removing the jack, rotate the screw clockwise to tighten by using jack lever.

Always jack up the vehicle at jack up points indicated with markings.



Jack up the vehicle until the wheel to be changed rises to an unconstrained position.



WARNING

- Applying the jack on points other than specified as jack up points may damage the vehicle body.
- Ensure that maintenance of the jack is carried out annually and always complies with user's manual.
- Check that all the passengers are evacuated before the vehicle is jacked up.



WARNING

Never remove the wheel nuts before the vehicle is jacked up.

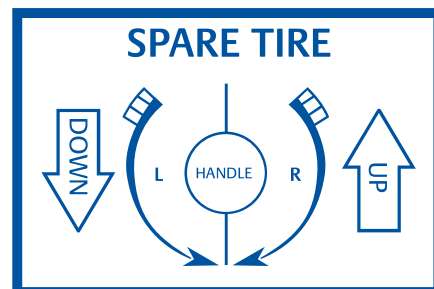
10.6 Changing Tires

Access to spare tire

Spare tire landing mechanism is located at the second step of front door.

Place the auxiliary lever and rotate clockwise to land the spare tire as illustrated above.

The mechanism moves upwards as the lever is rotated counterclockwise.



WARNING

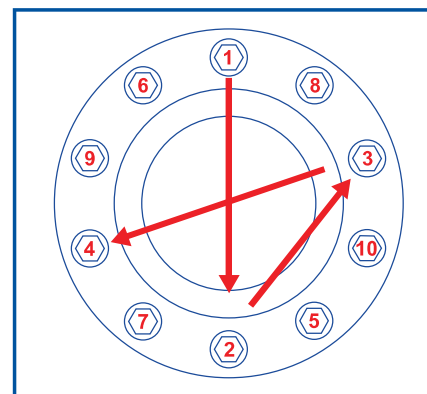
Check the wheel nuts regularly to ensure that they are correctly seated. Retighten the nuts if necessary. It is essential to retighten the wheel nuts of a changed wheel after 50 km/31 miles.



INFORMATION

Tightening torque for the wheel nuts : 440 ± 40 Nm.

Remove the wheel nuts



Remove the wheel nuts in a crosswise pattern using a socket wrench and take off the wheel. Take care not to damage the wheel stud threads.

Fit the new tire and tighten all the wheel nuts gently in crosswise sequence. Then retighten the wheel nuts in order shown in the illustration according to appropriate torque value.



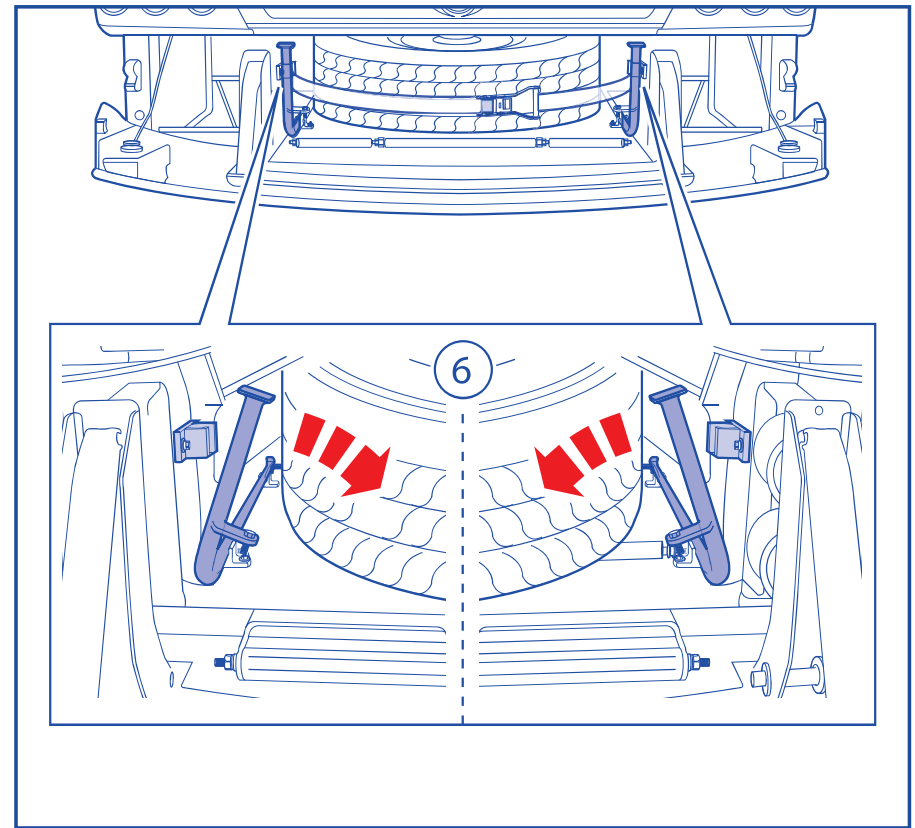
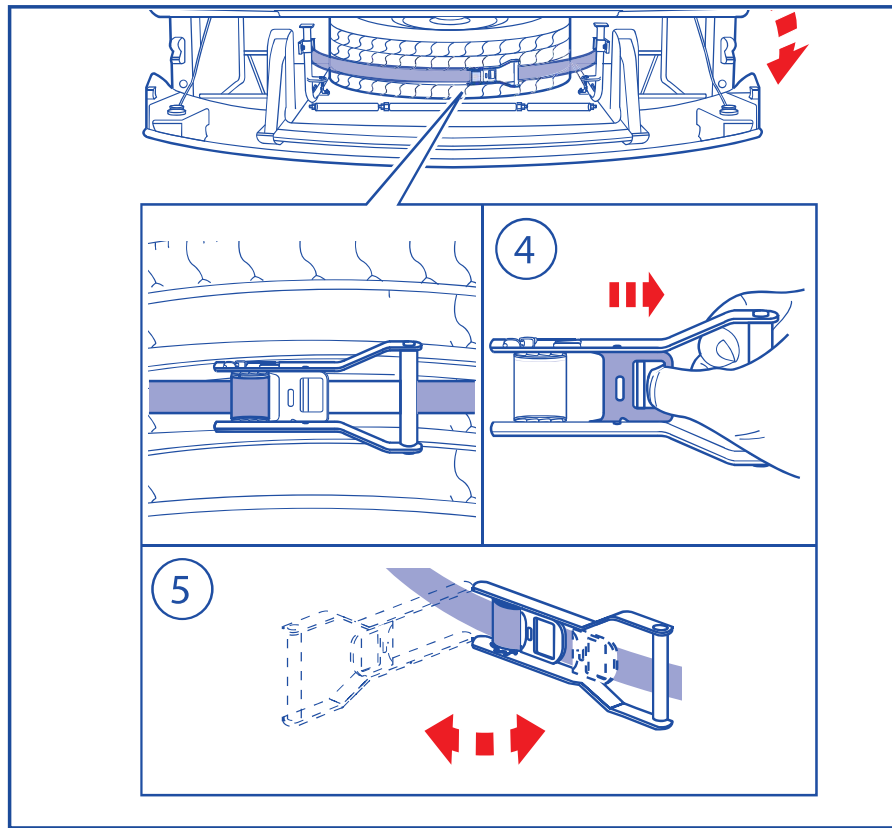
WARNING

Always fit new tires on the front of the vehicle.

10.6 Changing Tires

Removing spare tire

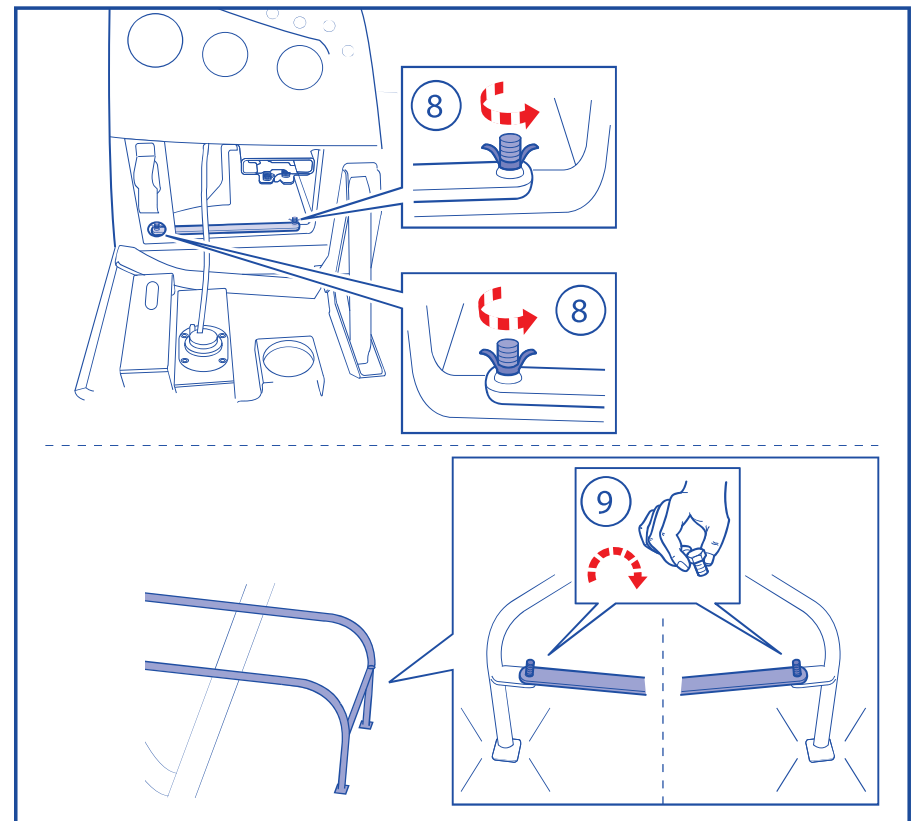
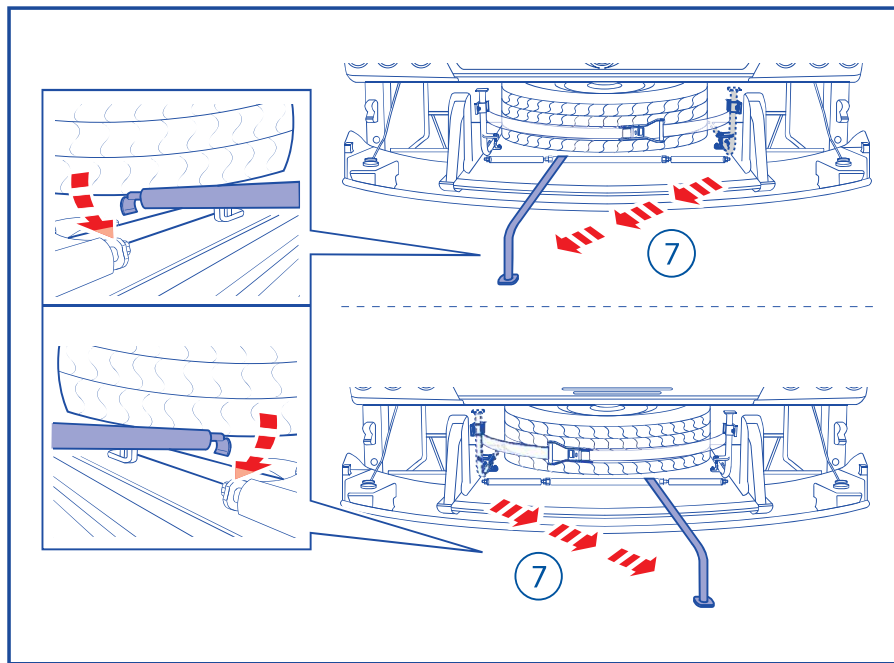
1. Spare tire belt has a locking mechanism. Hold the latch and pull in the direction of the arrow, as shown in the figure, to release the locking mechanism.
2. Moving the handle to the left and right several times loosens the belt.
3. Auxiliary parts (two pipes, a rod, two screws) are located behind front bumper to land spare tire easily. The two pipes of the landing mechanism are located one to the left and one to the right of the spare tire. To release, hold the pipe and pull in the direction of the arrow.



10.6 Changing Tires

Removing spare tire

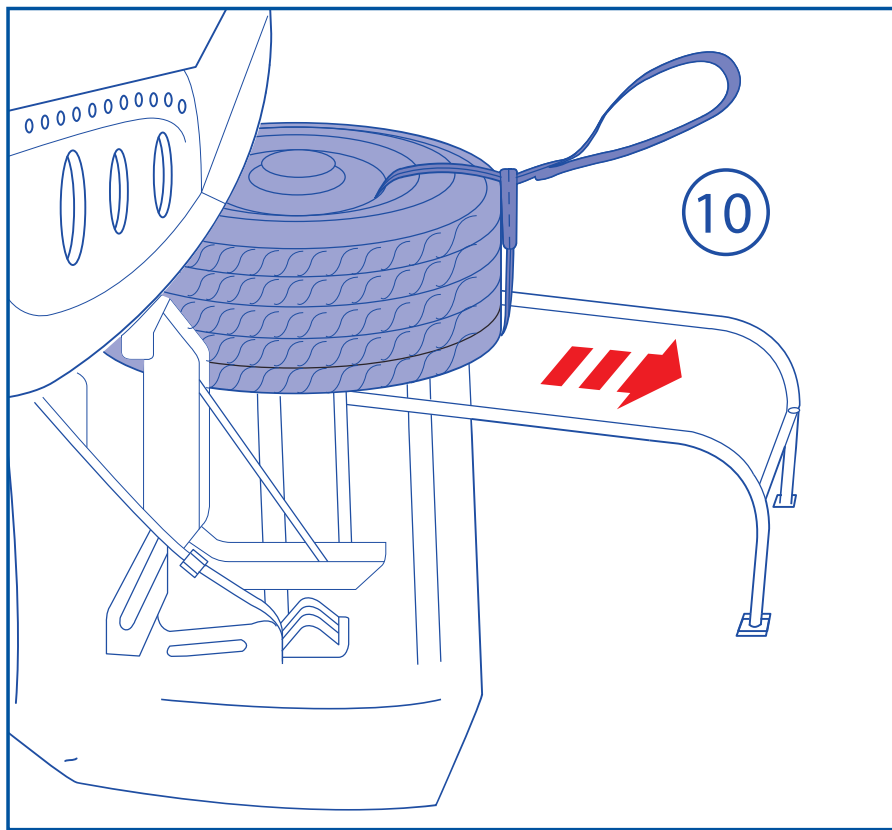
1. The pipe at the right side of the spare tire must be hooked at the left side of the tire. Pipe at the left side of the spare tire must be hooked at the right side of the tire.
2. Connection rod is located at the left side of the front bumper and mounted to the floor with two screws which need to be removed.
3. First, connect one of the pipes to the auxiliary rod with a screw and then connect the other pipe to the rod with another screw.



10.6 Changing Tires

Removing spare tire

10. Landing mechanism is ready to use. Hold the belt and pull in the direction of the arrow.



10.7 Shifting Tires

Tires may wear down after a certain driving period depending on the location and the load strain of the tire.

