

CITIPORT

INTRODUCTION AND USER MANUAL

ANADOLU ISUZU

Revision No: 02



It is a representative photograph of the Citiport vehicle.

PREFACE

This manual is prepared to provide you with general information about the efficient and the most economical use of your **Citiport** vehicle. We strongly recommend that you read the information provided carefully and follow all the warnings. We would like to inform you that our company will not be responsible for the material and moral problems and damages that may arise in case of failure to follow the statements herein.

If you need more detailed information about your vehicle, you can contact an authorized dealer and an authorized service.

Always keep the user manual in the vehicle.

Due to our constant efforts towards developing our vehicles, changes in shape, equipment and technique can be made. The information, pictures and specifications herein are based on the latest product information available at the time of publication of the manual and **Anadolu Isuzu A.Ş.** reserves the right to make changes without prior notice.

Thank you for choosing this product. We wish good rides.

Anadolu Isuzu Otomotiv Sanayi ve Ticaret A.Ş.

Headquarters : Fatih Sultan Mehmet Mah. Balkan Cad. No : 58 Buyaka E Blok Tepeüstü
34771 Ümraniye / İSTANBUL
Factory : Şekerpınar Mah. Otomotiv Cad. No : 2 41435 Çayırova / KOCAELİ
Phone : 0850 200 1900
e-mail : isuzu@isuzu.com.tr

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1.INTRODUCTION



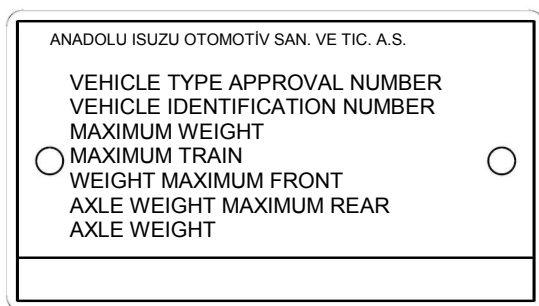
It is a representative photograph of the Citiport vehicle.

CHASSIS NUMBER



Vehicle's chassis number is located on the front wheelhouse inner covering sheet.

IDENTIFICATION PLATE



The identification plate is located at the entrance of the front door, under the right front seat. Identification plate contains the VIN number, maximum total axle load, maximum front axle load and maximum rear axle load information.

It contains information such as the VIN number, vehicle model, maximum loaded weight, type of engine, driving system, wheelbase, manufacturing place codes as well as the chassis number of the vehicle.

VEHICLE IDENTIFICATION NUMBER SYSTEM																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
N	N	A	M	0	B	D	L	B	0	2	0	0	0	0	0	1
(EXAMPLE)																
1 -3	WORLD MANUFACTURER CODE					NNA:	(AIOS) ANADOLU ISUZU OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ									
4	MODEL					M:	BUSES GROUP									
5	MAXIMUM LOADED WEIGHT					N:	14 PASSENGER SEATS									
						H:	17 PASSENGER SEATS									
						8:	18 PASSENGER SEATS									
						F:	19 PASSENGER SEATS									
						G:	20 PASSENGER SEATS									
						L:	21 PASSENGER SEATS									
						B:	22 PASSENGER SEATS									
						C:	23 PASSENGER SEATS									
						4:	24 PASSENGER SEATS									
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						D:	27 PASSENGER SEATS									
						R:	28 PASSENGER SEATS									
						P:	29 PASSENGER SEATS									
						T:	30 PASSENGER SEATS									
						K:	31 PASSENGER SEATS									
						S:	32 PASSENGER SEATS									
						U	33 PASSENGER SEATS									
						V	34 PASSENGER SEATS									
						5	35 PASSENGER SEATS									
						6	36 PASSENGER SEATS									
						7	37 PASSENGER SEATS									
						Z:	38 PASSENGER SEATS									
						9	39 PASSENGER SEATS									
						A:	43 PASSENGER SEATS									
						0	INDEPENDENT FROM THE NUMBER OF THE SEATS									
6	MODEL EXTENSION					S:	STANDARD									
						A:	AIR SUSPENSION									
						Z:	AIR SUSPENSION (EUROPE EXPORT)									
						L:	WITH SPRING									
						B:	MUNICIPALITY TYPE									
						H:	WITH PNEUMATIC DOOR STANDARD									
						E:	MUNICIPALITY TYPE (ALGERIA EXPORT)									
						2	INTERURBAN TYPE									
7	ENGINE TYPE					D:	CUMMINS ISB6.7e5 300B									
8	DRIVING SYSTEM					L:	LEFT STEERING									
						R:	RIGHT STEERING									
9	WHEELBASE					B:	5850mm									
10-11	PLACE OF PRODUCTION					01:	AIOS KARTAL FACTORY									
						02:	AIOS GEBZE FACTORY									
12-17	PRODUCTION ORDER NO						CHASSIS NUMBER									

ENGINE NUMBER

The engine number is indicated at 2 places on the engine.



On the engine identification label on the rocker cover



On the oil cooler body in the engine block

VEHICLE WARRANTY

The warranty period and conditions of the vehicle are stated in the “Warranty Certificate” supplied with the vehicle. You can find the detailed information on the warranty procedure in the “Warranty Certificate”.

OPTIONS

Other than the standard specifications of the vehicle, the following options can be applied to the vehicle when requested.

- Heated air conditioner
- Preheater
- Automatic greasing system
- Engine oil supplement system
- Engine chamber fire extinguisher system
- Diesel exhaust emission liquid heating system
- Digital colour front route display board
- Passenger information panel (1 piece additional to rear side)
- LCD display (additional 2 pieces)
- Closed, fixed fuel tank cover
- Water heater / cooler for the driver
- Stainless houses

SUGGESTIONS / WARNINGS

- Only use fuel that is of the specified specification (EN 590 appropriate sulphur ratio max. 10 ppm) in your vehicle.
- Use diesel exhaust emission fluid according to DIN 70070.
- Do not load your vehicle above the passenger capacity and do not change the seat positions. Our factory shall not be responsible for any problems that may arise due to a change of the load balance in the vehicle.
- Check the exhaust pipe from time to time. If you see any damage (for example, a damaged coupling piece due to wear or a hole or crack, a leakage at the pipe connection points), have it checked and serviced by the nearest Authorized Service.
- Check tire pressures frequently, and always make sure they are at the correct value.
- Have the front alignment adjustments checked at every 20,000 km to take the tire wears under control.
- Check the high and dipped beam settings, do not drive with defective headlights.
- Check the brake, parking and licence plate lamps frequently, do not drive with defective or muddy brakes, parking and license plate lamps.
- To ensure maximum performance in your vehicle, make sure to have all maintenances carried out on time and periodically at the Authorized Services.
- Liquids such as waste oil, brake fluid, antifreeze, waste filters and scrap batteries that you have used in your vehicle are very harmful to the environment when they are thrown away randomly. Please note that such hazardous wastes should be able to be disposed of in accordance with environmental regulations.
- It is extremely dangerous to have empty boxes, empty bottles or other items that roll on the floor, please make sure that especially the floor around the driver's seat is clean and tidy.
- Before starting the engine, make sure that there are no flammable substances under or around the vehicle. Presence of such materials may lead to a fire.
- Before driving, make sure to adjust the seat, steering wheel and mirrors to the positions that provide the correct driving position for you.
- Always wear your seat belt.
- Make sure that the windscreen and side windows are clean. Keep the curtains so as not to interrupt your vision and your driving.
- Do not increase the engine speed before the engine has warmed up sufficiently.
- Use your vehicle by paying attention to the traffic rules and to the road conditions.
- If you feel any abnormality in a tire while driving, immediately stop in a safe place. If you continue to drive with a deflated tyre, excessive force may be applied to the wheel studs causing the bolts to break and the wheel to come out.
- Drive at a constant speed whenever possible. Heating the engine for longer than necessary and having a high engine speed waste the fuel.
- If a warning lamp flashes on, do not ignore it and do not continue driving. Please note that you must take a corrective action by referring to the descriptions of the meters, warning lamps and indicator lights.
- When the vehicle malfunctions while driving, run the the hazard lights and immediately take the vehicle to a safe location where it will obstruct the traffic. Place warning triangles to notify other vehicles of your presence. Get the other passengers out of the vehicle and have them wait in a safe place. Call the nearest authorized service.
- The vision is reduced in bad weather conditions and the slippery road conditions increase the stopping distance. Drive slower than your speed in good weather conditions. Also, do not rotate the steering wheel suddenly and do not brake harshly. Use tire chains and winter tires on the roads covered with snow or ice.

2. GENERAL INFORMATION

STARTING THE ENGINE

Turn the main switch to the "ON" position and the transmission to the "N" position. Bring the ignition key to the "M" position and turn on the ignition key and press the starter ("D" position).



Do not run the starter for more than 30 seconds and do not press the accelerator pedal while running it. Wait two minutes between each running attempt.



If the engine oil warning lamp does not flash out within 15 seconds, turn off the engine to prevent damage to the engine. Contact an authorized service.



Run the engine at idle for 3- 5 minutes after starting the engine, gradually increase the engine speed. Do not operate the engine in such a way that it will exceed the maximum engine speed, which can seriously damage the engine.

Running the Engine at Cold Weather

Turn the main switch to the "ON" position and the transmission to the "N" position. Bring the ignition key to the "M" position and when the glow light is off, turn the ignition key and press the starter ("D" position).



If the vehicle will be parked for a long time (more than 2 days), turn the main switch off.

STOPPING THE ENGINE

Stop the engine by turning the ignition key to the "St" position.



Do not switch off the main switch when the ignition switch is open and before 70 seconds pass after the ignition switch has been switched off.

OPENING AND CLOSING THE DOORS

Vehicle's front door is opened/closed with a remote control from outside.

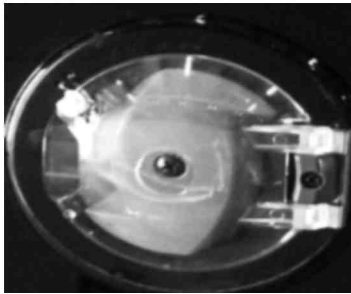
On the front control panel there are door opening/closing switches for opening/closing the doors from inside.



Opening the Doors in Emergency Situations



Air discharge valves are available on the upper side of the doors for emergency conditions. Discharge air by rotating the valve clockwise when required and open the doors by pulling them inwards.



There are also air discharge valves on the sides of the doors to allow opening of the doors from the outside when required. Turn the valve clockwise and open the door by pushing inwards.



There is also a red unlocking/closing control on the door in order to open the door when a passenger is left inside when the vehicle is locked from the outside with a key. When required, the control is rotated in the direction of the arrow and the air is discharged by rotating the air discharge valve on the upper side of the door, and the door is opened by pulling inwards.

EMERGENCY EXITS

In emergency situations, the windows on the right and left side of the vehicle and the window on the roof can be broken by the emergency hammer to enable emergency exit.



STEERING WHEEL SETTING



The steering wheel can be adjusted up, down, forward or backward according to the comfortable operating position of the driver. The steering level adjustment switch on the front control panel is used for this adjustment. It is necessary to have sufficient air pressure in the vehicle while making the adjustment.

3. CONTROLS AND DISPLAYS

DRIVER CONTROL PANEL



Driver control panel;

Front control panel

Side control panel

indicator and warning lights panel.

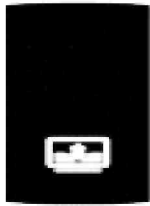
FRONT CONTROL PANEL



- | | |
|---|---|
| 1. Power front roller switch | 20. Radiator switch |
| 2. Optional | 21. Selection key that determines the front door operation mode |
| 3. Front roof ventilation cover switch | 22. High driving switch |
| 4. Rear roof ventilation cover switch | 23. Tilting / driving level switch |
| 5. Roof lamp switches | 24. Optional |
| 6. Driver roof lighting lamp key | 25. Optional |
| 7. ASR cancel key | 26. Disabled passenger ramp switch |
| 8. Outside rear view mirror resistance switch | 27. Optional |
| 9. Driver side window resistance switch | 28. Optional |
| 10. Steering level adjustment switch | 30. Front door wing selection key |
| 11. Optional | 31. Middle door opening / closing switch |
| 12. Hazard warning lights switch | 32. Rear door opening / closing switch |
| 13. Optional | 33. Middle and Rear door opening / closing switch |
| 14. Optional | 36. Optional |
| 15. Optional | 37. Automatic transmission control buttons |
| 16. Headlight/parking/front-rear fog lamps control switch | 50. Retarder control lever |
| 17. Optional | 51. Ignition key |
| 18. Stop brake switch (Optional) | 52. Signal and wiper handle |
| 19. Route display board switch | 53. 7" LCD Display |

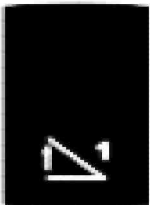
NOTE : Location of the keys may vary from vehicle to vehicle.

1 Power Front Roller Switch



It is used to open and close the curtain in front of the driver. The curtain goes down when the lower end of the switch is pressed. When the switch is released, the curtain stops moving and remains on the level where it is lowered. When the upper end of the switch is pressed, the curtain goes upward.

3 Front Roof Ventilation Cover Switch



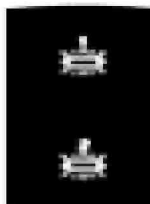
Front roof ventilation cover opens when the upper end of the switch is pressed. The cover closes when the lower end of the switch is pressed. Backlight flashes while the roof cover moves upwards or downwards. Backlight of the button illuminates when the roof ventilation cover is open. The ventilation cover closes automatically while the air conditioner or wiper is running.

4. Rear Roof Ventilation Cover Switch



Rear roof ventilation cover opens when the upper end of the switch is pressed. The cover closes when the lower end of the switch is pressed. Backlight flashes while the roof cover moves upwards or downwards. Backlight of the button illuminates when the roof ventilation cover is open. The ventilation cover closes automatically while the air conditioner or wiper is running.

5. Roof Lamps Switch



The function light illuminates when the switch is pressed. The switch has 3 positions.

1. Partial lighting is provided when the upper end is pressed.
2. It closes in the middle position.
3. Full lighting is provided when the lower end is pressed.

6. Driver Roof Lighting Lamp Switch



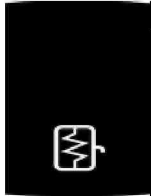
The lamp flashes on when the lower end of the switch is pressed, it closes when the upper end is pressed.

7. ASR Cancel Key



The ASR system is deactivated when the lower end of the switch is pressed, and the system is activated when the upper end is pressed.

8. External Rear View Mirror Resistance Switch



When the switch is pressed, the external rear view mirror heating is activated. When pressed again, it will be deactivated immediately and if not pressed, it will be deactivated automatically after 500 sec. The backlight of the switch lights on during heating.

9. Driver Side Window Resistance Switch



When the key is pressed, the driver side window heating is activated. When pressed again, it will be deactivated immediately and if not pressed, it will be deactivated automatically after 500 sec. The backlight of the switch lights on during heating.

10. Steering Level Adjustment Switch



The vehicle is equipped with an air-assisted adjustment system for ease of adjustment. When the switch is pressed, the steering adjustment is unlocked, after the adjustment is made, the steering is locked by pressing the switch again.

12. Hazard Warning Lights Switch



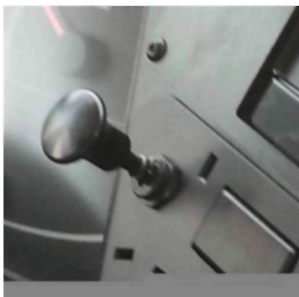
The hazard lights turn on when the lower end of the switch is pressed and turns off when the upper end is pressed. When the switch is pressed, the signal warning lights on the instrument panel and all the turn lamps on the vehicle and the function lamp on the switch blink and a buzzer is given.

16. Headlight/Parking/Front-Rear Fog Lamps Control Switch



When it is rotated to the right once while it is in the "0" position, the parking lamp flashes on. When it is rotated again, the headlights flash on. The front fog lamps flash on when pulled up once while the parking lamp or the dimmed headlights are on and the rear fog lamps flash on if pulled once more.

18. Stop Brake Switch (Optional)



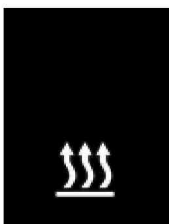
This switch is used to prevent the vehicle from moving in short-duration waits, such as getting on and off passengers at the stops. When the switch is pulled in, the system is activated and when pushed out, it is deactivated. When the doors are opened while the system is active, the stop brake is activated and the vehicle does not move.

19. Route Display Board Switch



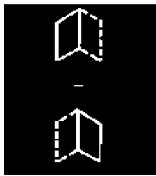
When the upper end of the switch is pressed, the route display board is activated and when the lower end is pressed it is deactivated.

20. Radiator Switch



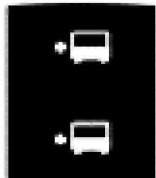
Level 1 is activated when the lower end of the switch is pressed, and level 2 is activated when it is pressed second time, and it is deactivated when it is pressed the third time.

21. Selection Key That Determines the Front Door Operation Mode



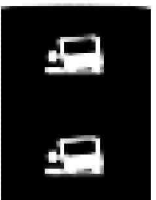
When the upper end of the switch is pressed, the front door left wing is opened and closed, when the lower end is pressed, the front door right wing is opened and closed and when it is left in the middle, two wings of the front door are opened and closed.

22. High Driving Switch



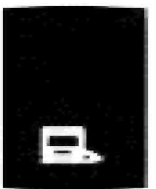
This switch is used for driving at a higher level than the normal level in the vehicle. When the upper end of the switch is pressed, the vehicle reaches a higher level. When the lower end is pressed, the vehicle reaches normal driving level.

23. Tilting/Normal Level Switch



When the lower end of the switch is pressed, the vehicle tilts to the right and when the upper end is pressed, it comes to the driving position.

26. Disabled Passenger Ramp Switch



Disabled passenger ramp opens under the supervision of the driver and the stop brake activates automatically when the lower end of the switch is pressed. And when the upper end of the switch is pressed, the stop brake does not deactivate and prevents the vehicle from moving with the ramp open if the disabled passenger ramp is not closed.

30 Front Door Opening / Closing Switch



As per the selection performed with the selection key which determines the operation of the front door, it opens or closes the right, left or both wings of the front door. The backlight flashes on if the door is open, it flashes off if it is closed. The door opening feature will not be active at speeds above 5 km.

31. Middle Door Opening / Closing Switch



It opens or closes the middle door. If the door is open, the backlight flashes on, if it is closed it will flash off. The door opening feature will not be active at speeds exceeding 5 km.

32 Rear Door Opening / Closing Switch



It opens or closes the rear door. If the door is open, the backlight flashes on, if it is closed it will flash off. The door opening feature will not be active at speeds exceeding 5 km.

33 Middle and Rear Door Opening / Closing Switch



It opens or closes the middle and the rear doors at the same time. The backlight flashes on if the door is open, it flashes off if it is closed. The door opening feature will not be active at speeds above 5 km.

37. Automatic Transmission Control Buttons



- 1** : Transmission does not shift over the 1st Gear
- 2** : Transmission does not shift over the 2nd Gear
- 3** : The transmission works on each of the 3 gears.
- D button** : It is the forward driving gear.
- N button** : It is the neutral gear, parking position.
- R button** : It is the reverse driving gear.

50. Retarder Control Arm



The retarder is activated or deactivated in 3 stages.

51. Ignition Key



The ignition key operates against the spring pressure in the starter position and returns back again when released.

St Off

M The ignition is switched on
D Starter operates



Do not attempt to remove the ignition key while the vehicle is moving.

52. Signal and Wiper Handle



The handle signals to the left while it is in the downward direction and to the right while in the upward direction. At first rotation, it activates the wipers intermittently, at the second, at normal speed and at the third, at high speed. The water jet runs when it is pushed towards the steering wheel. When the button on the end is pressed, the horn is activated.

53. 7" LCD Display



The images of the cameras intended for the security of vehicle interior and exterior while driving are viewed from this screen. When the vehicle is shifted to the reverse gear, it automatically switches back to the rear view position. Monitoring can be done by dividing the screen as desired (2, 4, 8, etc.).

SIDE CONTROL PANEL



1. Amplifier
2. Cup holder
3. Cigarette lighter
4. Mirror control switch
5. Emergency switch
6. LCD (19") switch
7. Driver window switch
8. Parking brake

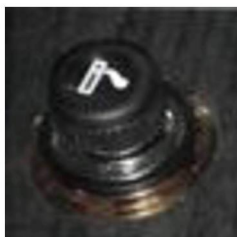
1. Amplifier



Speaker on/off operations are performed by the amplifier.

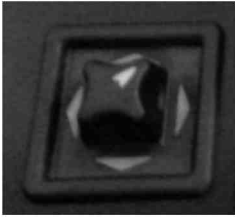
2.Cup holder

3.Lighter



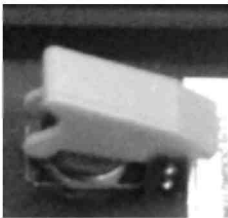
The cigarette lighter is pushed towards the inner heat element and automatically ejects when heated.

4. Mirror Control Switch



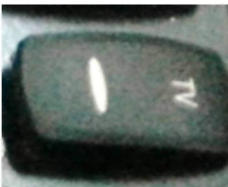
This switch is used for the driver to adjust the direction of the rear view mirrors according to himself. Turn the mirror to the desired direction by turning the arrow mark on the switch to the desired side of the mirror to be adjusted (right, left, up, down).

5. Emergency switch



To use the emergency switch, lift it upwards and open the red safety cover on it. When it is pushed forward, the power in the system is cut off, the engine stops, all interior lighting lights and the hazard lights turn on and the door switches are in a actively operating condition. When pulled back, the system returns to normal.

6. LCD Switch



When the lower end of the switch is pressed, LCD is activated and it is deactivated when the upper end is pressed.

7. Driver Window Switch



When the lower end of the switch is pressed, the driver window moves down and when pressed again it stops; it moves up as long as the upper end is pressed.

8. Parking Brake



The parking brake system is of pneumatic type and spring installed. The parking brake lever is on the left side control panel. When the vehicle is stopped, the parking brake lever is pulled back, the lever must be locked in the lower position. To release the brake, pull the locking latch at the bottom of the lever slightly upwards and release the lever forward. There is a warning light on the instrument panel which indicates whether the parking brake system is active. For driving (vehicle active), if the brake air is insufficient when the parking brake is pulled to neutral (below 6 bars), the warning light flashes red. lights and wait

INDICATOR AND WARNING LIGHTS PANEL





High Beam Warning: It is a blue warning light that flashes on when the high beams are in use or when the headlights are flashed.



Dipped Beam Warning: It is a green warning that flashes on when the dimmed headlights are in use.



Front Fog Warning: It is a yellow warning that flashes on when the front fog lights are in use.



Rear Fog Warning: It is a yellow warning that flashes on when the rear fog lights are in use.



Signal Warnings: It is a green light, buzzer warning that shows right and left turns, that blinks when the signal lever on the steering or the hazard light switch is used.



Low Pressure Warning: It is a red warning light that illuminates when the brake circuit system pressure drops below 6 bars.



PParking (Hand) Brake Warning: It is a red warning that flashes on when the parking (hand) brake is applied, indicating that the brake is active.



Engine Fault Warning: It is a yellow warning that flashes on when there is an engine malfunction.



Engine Oil Warning: It is a red warning that flashes on when the engine oil pressure is low.



Transmission Failure Warning: It is a red warning that flashes on when there is a fault in the transmission.



ASR Warning: It is a yellow warning that flashes on when ASR is switched on.



Retarder Warning: It is a yellow warning that flashes on when the retarder is active.



Charge Warning: It is a red warning that flashes on when the ignition is on and that flashes off when the engine is powered and exceeded the idle speed. It indicates that there is a malfunction in the charging system if it flashes on during driving.



Brake Lining Worn Off Warning: It is a yellow warning that flashes on when the brake lining thickness received from EBS decreases below 10%.



Driver Warning: It is a red warning that flashes on in case of a malfunction where the driver should be informed.



Stop Brake Warning: It is a green warning that flashes on when the stop brake is active. It is activated when any door is open and while the engine is running and it is deactivated when all the doors are closed.

STOP

Engine STOP Warning: It is a red warning that flashes on if there is a serious engine malfunction; an authorized service should be contacted.



EBS Warning: It is a red or yellow warning that flashes on when a fault information is received from the EBS module.



Transmission Overheating Warning: It is a yellow warning that flashes on when the transmission oil is over 107°C.



Air Intake Clogged Warning: It is a yellow warning indicating there is not sufficient air intake.



Engine Coolant Level Warning : It is a red and audible warning indicating that the engine coolant level has dropped and it should be added.



Air Conditioner Active Warning : It is a blue warning that flashes on 2 minutes after the air conditioner has been activated.



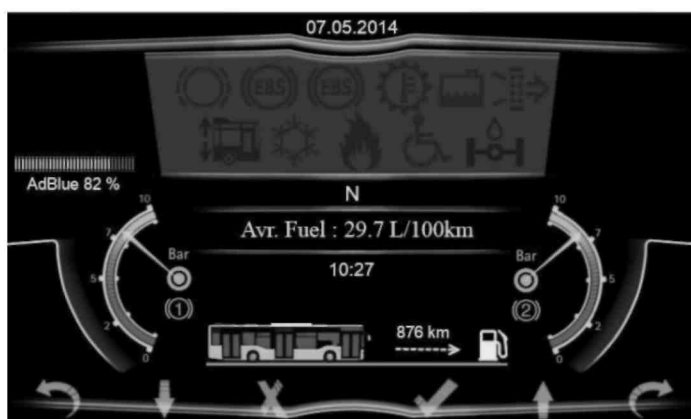
Fire Warning: It is a red and audible warning that flashes on when the engine chamber temperature exceeds 175°C.



Greasing Fault Warning: It is a yellow and audible warning when there is a malfunction in the automatic greasing system.

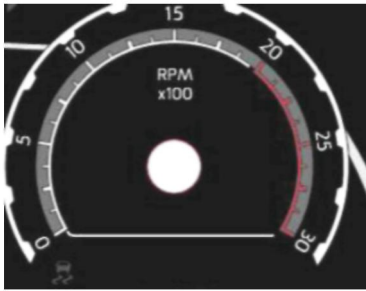
Info Screen

You may access the information specified below from this screen.



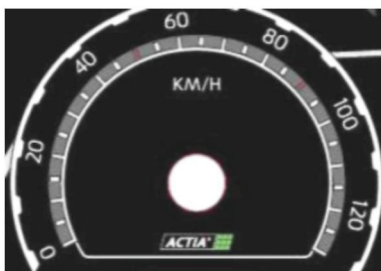
Average fuel consumption The distance that may be travelled with the current fuel level Gear Total travelled distance Digital clock Diesel exhaust emission fluid level Brake pressures

Engine Speed Indicator



The engine tachometer measures the number of engine revolutions per minute. It starts running when the engine is started.

Speed (km/h) Indicator



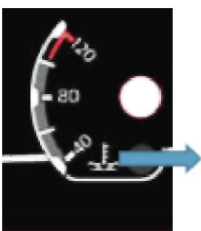
It displays the speed of the vehicle in kilometre/hour. It starts running after the vehicle starts moving.

Fuel Gauge



The fuel gauge shows the fuel level in the fuel tank. When the dial approaches "0", the red light in the lower right of the gauge flashes on, showing that the fuel has decreased. Fuel must be added before the fuel in the fuel tank completely finishes, otherwise the system will have air.

Engine Overheating Indicator



It indicates the coolant temperature of the engine. When the temperature rises above 107°C, a red light flashes on.

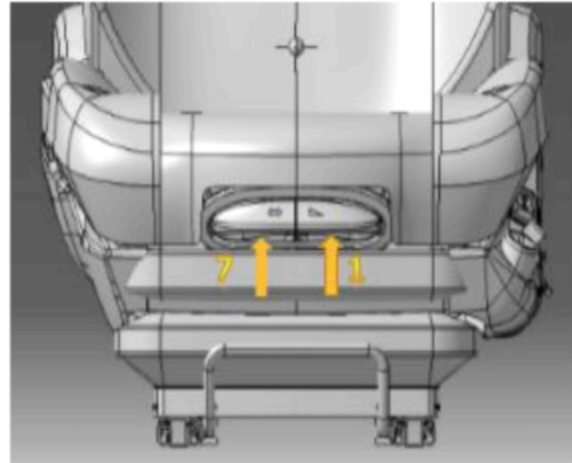
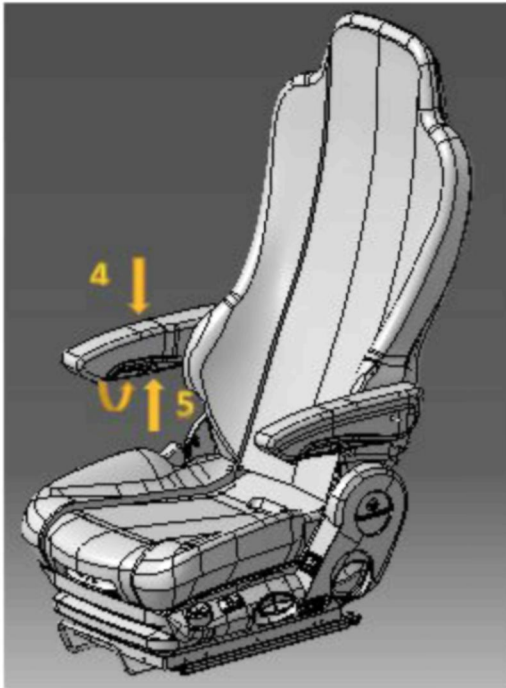
ROUTE DISPLAY BOARD CONTROL PANEL



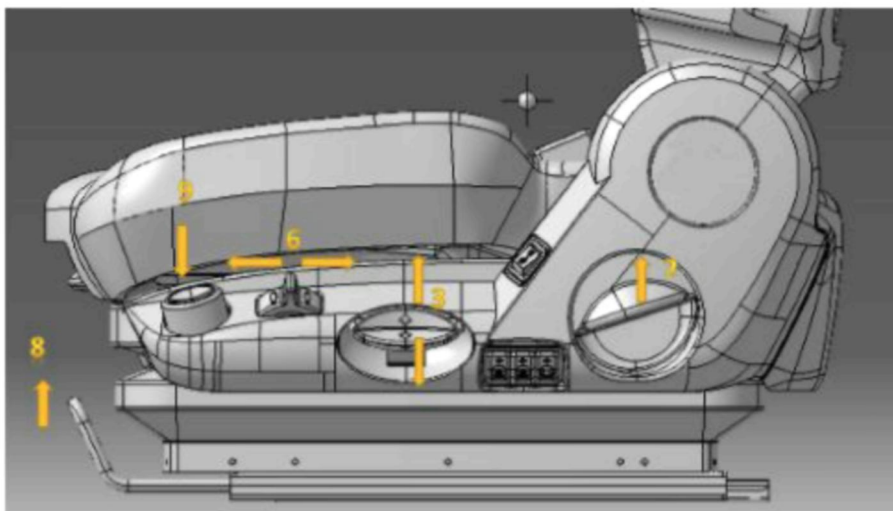
The driver's compartment top console is equipped with a route display board control panel. The route information to be displayed on the route display board is selected, and changed via the this control panel.

4.VEHICLE EQUIPMENT

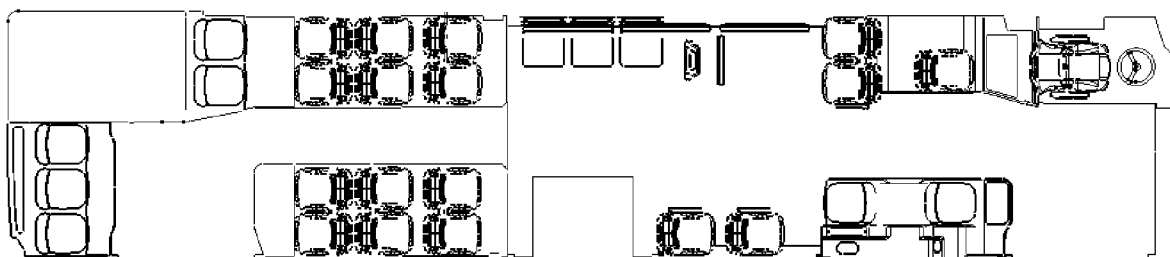
DRIVER SEAT



1. **Seat inclination adjustment:** The button on the left is pulled up to adjust the inclination of the seat. Inclination of the seat is brought to the desired position by giving the weight to the front or back at the same time.
2. **Backrest inclination adjustment:** It is adjusted by unlocking the backrest (the lock lever is lifted up) and the backrest is depressed and tilted backward.
3. **Height adjustment :** The height of the seat is changed by pressing the adjustment knob up or down.
4. **Armrest:** There are armrests that can be lowered and risen on both sides of the seat.
5. **Armrest inclination adjustment:** The armrest inclination can be changed by turning the knob.
6. **Shock absorber stiffness adjustment:** Flexibility stiffness of the seat can be adjusted in 3 steps.
7. **Seat depth adjustment:** The right button is pulled up to adjust the forward move width of the seat. At the same time, the desired position is adjusted by pulling the seat forward and backward.
8. **Forward-back adjustment:** The seat can be moved forward or backward by pulling the locking lever.
9. **Fast lowering:** The seat can be lowered to the lowest position by pressing and fixing the button. When the button is pressed again, the seat rises to the driving position.



PASSENGER SEATS



There are 27 passenger seats (24 + 3 folding seats) in the vehicle as a standard. The passenger seats are fabric upholstered. There is a triple seat at the rear, two single seats in the right front, one single seat on the left wheel and there are also double group seats in the other sections. Opposite to the middle door, there are 3 folding seats. There are two priority seats in front of the middle door right side of the vehicle and four priority seats including one double on the left. Armrests are available in these seats. There is a wheelchair area and backrest pad for disabled passengers, opposite the middle door.

	24\0	24\3	24\0
	0	0	1
	78	75	70
	102	102	95

There is a passenger capacity label in the upper area in the front of the vehicle. This label shows the number of seated and standing passengers.

DRIVER SIDE WINDOW WITH RESISTANCE

This is located on the left side of the driver. It can be driven by an electric motor and can be controlled by the driver with the switch on the front control panel. If the moving glass breaks or the electric motor malfunctions, it is necessary to consult to an Authorized Service.

WATER HEATER / COOLER FOR DRIVER (OPTIONAL)



On the right side of the driver's seat, there is a water heater/cooler for the driver. Cooling mode is at 22°C below the ambient temperature and the heating mode is at beverage temperature up to 60°C.

DVD PLAYER



The top console of the driver compartment contains a DVD player with USB and AUX-IN inputs.

ROLLER BLINDS

There is an electric roller blind on driver's side of the windshield. This blind is opened and closed with a roller blind switch on the front control panel. Also, there is a manually operated roller blind on the left side of the driver.

DIAGNOSTIC SOCKET

This is located on the rear of the driver's seat. This socket is used to load and change the parameters to the vehicle communication system and for the diagnosis of faults.

PASSENGER INFORMATION PANEL



There is a digital panel on the upper section on the rear right of the driver to inform the passengers. This panel displays the time and ambient temperature, and also the date information alternately.

Also, when the stop button on the passenger information panel is pressed a "STOP" warning is displayed.

MIRRORS



There is 1 rear view mirror in the vehicle.

There are 2 exterior rear view mirrors on the vehicle, one on the right and one on the left. Mist or ice formation on the outer mirrors is prevented by the heater with resistance.



**LEFT EXTERNAL
REARVIEW MIRROR**



**RIGHT EXTERNAL
REARVIEW MIRROR**

DIGITAL ROUTE DISPLAY BOARDS



There are 1 front (corner turning) and 1 rear digital route display boards in the vehicle

Digital Colour Front Route Display Board (Optional)

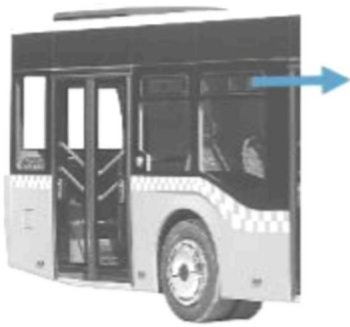
There are 3 optional route display boards in the vehicle, including 1 front (coloured), 1 side, 1 rear.

LCD Display



There is 1 piece of 19" LCD Display in the front of the vehicle. This display may be used for displaying information and advertisements.

HALF OPENING WINDOW



There are 7 half opening windows in the vehicle. These windows may be opened and closed with the spanner provided in the toolbox.

ROOF COVER



There are 2 roof covers on the front and rear of the vehicle. Covers are electrically controlled. Opening/closing of the covers as per the desired air intake direction is performed with the ventilation switch on the front control panel. Roof covers are designed so that they can be used as an emergency exit when required.

HAND GRIPS



Hand grips are available on the vehicle's gripping pipes to enable the passengers to grip.

STOP BUTTON



There are a total of 11 stop buttons in the vehicle, 7 on the gripping pipes, 3 on the side wall for prioritized passengers and 1 for the handicapped passengers. The passengers who want to get off the vehicle press on this button to signal a warning to the driver. The light of the relevant door button is illuminated and "STOP" is displayed on the passenger information panel. An audible warning is activated, too. When the doors are opened, the "STOP" message and the warnings on the door buttons turn off.

PACKAGE AREA



There is a package area on the left front wheel hood in the vehicle to allow the passengers to travel comfortably, to put the items they are holding on their hands (umbrella, package, suitcase etc.) on it.

WHEELCHAIR FASTENING ZONE

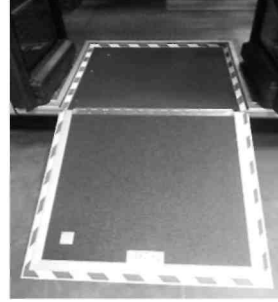
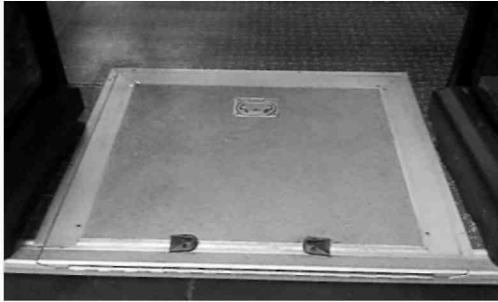


There is a special place on the opposite of the middle door for the passengers who enter the vehicle with a wheelchair to travel safely.

DISABLED PASSENGER RAMP

A manual opening / closing ramp is installed in the middle door to facilitate entrance— exit of the disabled passengers with a wheelchair.

Use of the ramp



Stop the vehicle where the traffic is convenient

- Open the middle door
- Hold the ramp from its grips and open towards the outside of the vehicle
- Enable the entrance— exit of the disabled passenger
- Close the ramp by folding it into the vehicle.

In case the ramp is open, the Disabled Ramp Warning Lamp and the buzzer will be activated.

EXTERIOR CAMERA SYSTEM

There are 2 external cameras on the sides of the right and left outside rear view mirrors to see the obstacles on the right and left during vehicle movement. The camera on the right also enables monitoring of the passengers getting off the bus from the middle and rear doors.

INTERIOR CAMERA SYSTEM



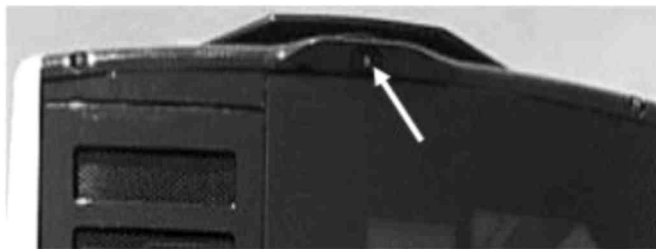
There are a total of 5 cameras in the vehicle, including 3 cameras in the passenger area to monitor the entrance and exit of the passengers and one for monitoring the driver and one for monitoring the road. The image taken from the camera is displayed on the LCD screen on the front control panel.

DVR (Digital Video Recorder)



A DVR is placed under the front roof covers in the driver's area. DVR allows you to record audio and video taken to the camera.

REAR VIEW SYSTEM



There is a closed circuit camera system that displays the area behind the vehicle while parking and reverse driving. The image taken from the camera is displayed on the LCD screen on the front control panel.

PARKING SENSORS

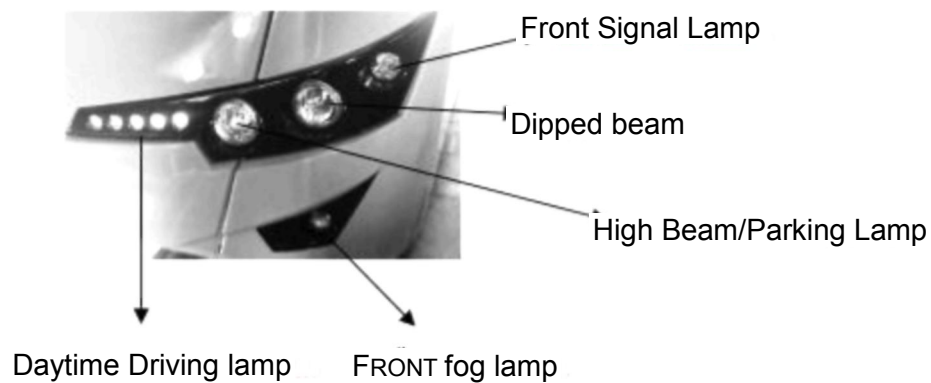


There are 4 parking sensors installed on the rear bumper. Sensors are activated when the vehicle is shifted to reverse. Warns the driver with a buzzer as per the distance between the bumper and the obstacle behind while manoeuvring in reverse.

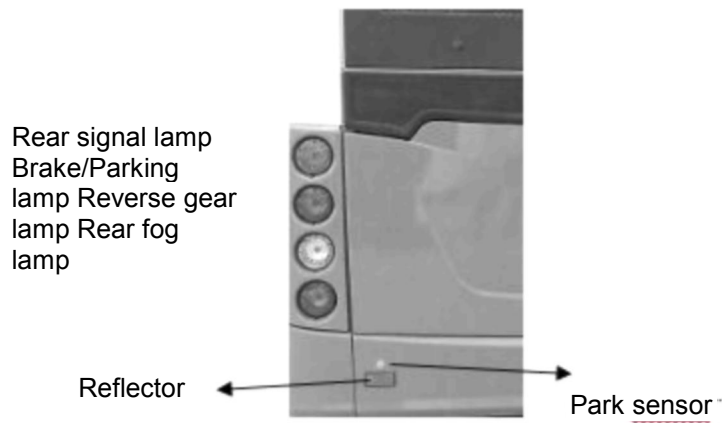
EXTERNAL WARNING AND LIGHTING LAMPS

Lamps	Number in the vehicle
High beam/parking	2 pcs
Dipped beam	2 pcs
Front fog light	2 pcs
Front turn lamp (with led)	2 pcs
Front positioning lamp (with led)	2 pcs
Side turn lamp (with led)	2 pcs
Sidemarkers (with led)	10 pcs
Rear turn lamp	2 pcs
Brake/parking lamp	2 pcs
Reverse gear lamp	2 pcs
Rear fog lamp	2 pcs
Rear license plate lamp (with led)	2adt+
Rear positioning lamp (with led)	2adt+
Daytime driving lamp (with led)	1 set
Reflector	2 pcs
Engine lighting lamp (Led)	1 pcs

Front Headlight Assembly



Rear Lamp Group



Side Turn Signal Lamps



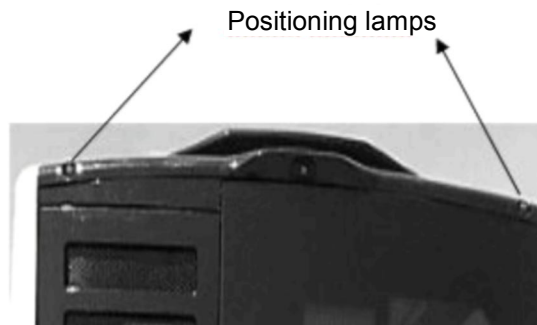
Side turn signal lamp

There are 2 side turn signal lamps in total on the right and left sides of the vehicle. Front and rear turn signals operate together.

Sidemarkers and Positioning Lamps

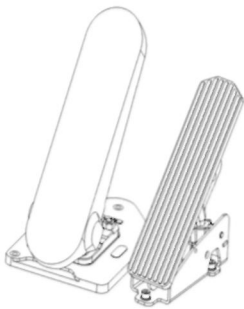


Sidemarker



There are a total of 4 positioning lamps in the vehicle, including 2 on the front top and 2 on the rear top side. Also, there are 10 sidemarkers in total, including 5 on the right and 5 on the left.

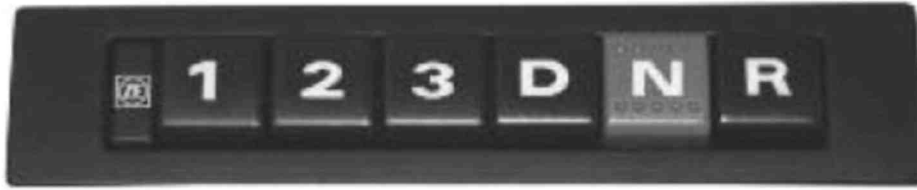
PEDALS



Brake Pedal The pedal on the left is the brake pedal. The pedal is part of the electronic brake system (EBS). By pressing the brake pedal, an electrical signal is transmitted to the central control unit and air is supplied to the brake components.

Accelerator Pedal The pedal on the right is the accelerator pedal. The electronic signal sent by the position sensor connected to the accelerator pedal is evaluated by the ECU (Electronic Control Unit) and the amount of fuel supplied to the engine is set. There is a kick-down button at the end of the accelerator pedal that increases the engine speed.

TRANSMISSION



The vehicle is equipped with a 6-button gear selector;

Buttons 1, 2, 3 : It is used to limit the maximum gear value that the transmission will take.

D button : Automatic forward

N button : Transmission in neutral

R button : Reverse

The transmission must be in the "N" position while the engine is running.

When the ignition key is turned, firstly, the lights of all buttons flash for 1-2 seconds; then only the light of the selected button remains on.

If the selected button light is blinking, it means that the selected gear is not accepted by the transmission control unit because proper conditions for gear shift are not provided.

If all the lights are blinking, it means that the gear selector is faulty or there is a problem with the vehicle data communication system (CAN) in the cable connection. If you accidentally press more than one key, the transmission will apply the selected smaller gear option. For example, when you press the D and 3 keys at the same time, the transmission shall follow key no. 3.

While shifting;

- Accelerator pedal should not be pressed
- Engine speed should be below 900 rpm
- Vehicle must be stopping
- The brake pedal must be depressed
- The button of the gear to be selected must be pressed

In the following situations, the transmission does not allow gear selection and the light blinks when the button is pressed.

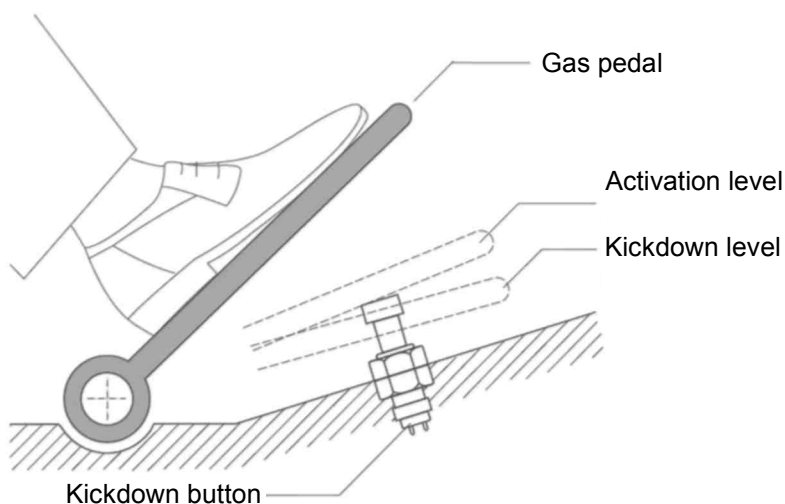
- If the accelerator pedal is pressed
- If the engine speed is above 900 rpm
- If the vehicle is moving at a speed higher than 3 km/h and it moves in the reverse of the desired direction
- If the transmission oil temperature is below -20°C

1-2 seconds after selecting the gear, pull your foot off the brake pedal and the vehicle will move.

While the vehicle is uphill, when the foot is pulled off the brake pedal, the transmission makes a brake to prevent the vehicle from slipping back.

Driving downhill

For downhill cruising, the gear increase should be limited by selecting gear 1, 2 or 3 to limit the gear when needed.



Kickdown feature

When high engine power is needed, gear is decreased by the kickdown feature. For this, the accelerator pedal must be depressed until it passes the kickdown activation point. Using the kickdown feature increases the fuel consumption.

Retarder feature

The retarder is the hydrodynamic brake feature that the transmission has to extend the life of service brakes. It operates in three levels with the lever and/or the brake pedal. The first time the brake pedal is pressed, the retarder runs in the 1st stage, as the pedal is depressed, it increases up to the 3rd stage and increases the braking torque. If the pedal is pressed more, the service brakes are activated. When the transmission oil temperature rises above the critical temperature, the retarder performance decreases or the transmission closes the retarder feature. When the transmission temperature rises excessively, the warning light flashes on the display.

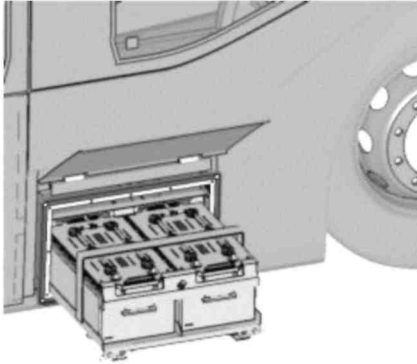
FUEL TANK and COVER

The fuel tank is on the right side of the vehicle and is on the front wheel. Its tank capacity is 300 l.

The fuel tank cover is accessed by opening the protective cover. The cover is opened by the fuel tank key. After the filling process, the tank cover is locked by turning clockwise.

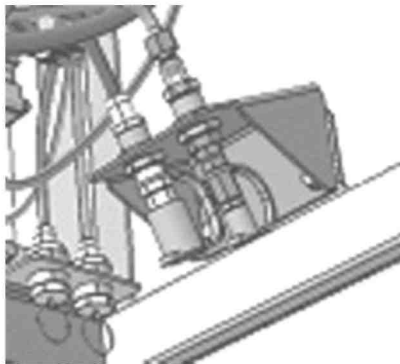
There is one fuel tank maintenance cover under the seat group in the right front area of the vehicle. For cleaning the fuel tank, the bolts of this cover are removed and the drain plug is reached. The cover is opened by turning the plug and the deposits in the fuel tank are discharged.

ACCUMULATORS



Accumulators are located on the front of the rear left wheel; they are placed on slides so that it shall be easy to install or remove them. There are 2 accumulators in the vehicle. Each accumulator is 12 V and 240 Ah.

TIRE INFLATION SET



Ports for taking and supplying air from/to the vehicle are located at the bottom between the middle door and the rear wheel. If the air pressure of the vehicle's tires are lowered, it is possible to adjust the tire pressures by using the tire inflation set that is available in the toolbox. For this purpose,

- Park the vehicle so as not to obstruct traffic.
- Pull the parking brake, shift the gear to neutral and start the engine.
- Take the tire inflator set.
- Attach one end of the hose to the valve of the tire to be inflated and the other end to the air outlet behind the middle door
- Complete the tire inflation process by supplying gas to the engine.

HEATING and COOLING SYSTEM

Air Conditioner Adjustment Control Unit

The control unit driver compartment is located in the upper console. On the rear panel of the control unit there are one 22-pin, one 20-pin and one 6-pin connection sockets available. On the front panel of the unit, there are 11 keys for managing the various functions of the air conditioner.

Different information and values, such as the desired (set) and current temperature degrees can be read from the three-digit, seven-segment display on the control unit of the passenger section.

Driver Compartment Control Keys

Passenger Compartment Control Keys



Control Unit Key Functions

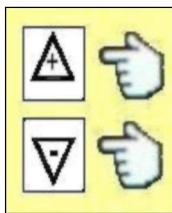
Key no	Key Function
T1+	Switching on / off the driver side heating mode
T2+	Selecting the driver side circulation air / fresh air mode
T3+	Selecting the driver side air flaps (foot / foot-torpedo / windscreen)
T4+	Driver side window defrosting
T5+	Manual adjustment of the driver side fan efficiency
T6+	Operation in driver side cooling mode
T7+	Switching on/off passenger side air conditioner
T8+	Activating the passenger side manual fan efficiency
T9+	Selecting the passenger side circulation air / fresh air
T10+	Rising the passenger side comfortable temperature level to 15°C - 30°C
T11+	Reducing the passenger side comfortable temperature level from 15°C - 30°C
T10-T11+	Calling the sensor values (when both keys are pressed at the same time)
R	Display

Reading the Internal Temperature Value



While the vehicle is running, the display automatically shows the current interior temperature.

Manual Reading of the Outside Temperature Value

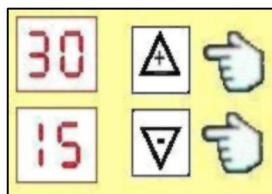


When the T10 and T11 keys are pressed at the same time, P1 appears on the display. Press the + key until P5 appears on the display, the display shows the outside temperature levels for 5 seconds. It then automatically shows the passenger side temperature.

Adjustment of the Passenger Side Temperature



Press the Auto (T7) key on the Control Unit, (led is active).



Press the T10 key to increase the desired ambient temperature. It can be adjusted to max. 30°C.

Press the T11 key to decrease the desired ambient temperature. It can be adjusted to min. 15°C.



then the display automatically shows the passenger side (interior temperature) again.

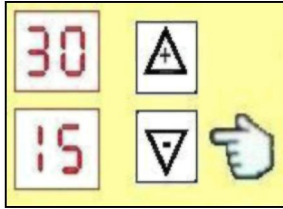
Running the Roof Air Conditioner in Cooling Mode

Run your vehicle's engine



Press the Auto key on the Control Unit and when you press the **"Auto"** key, your air conditioner will start to run in the **"Auto Mode"**. When auto is active, the red led flashes on and in the cooling mode the red and green led flash on together.

Note: When the Auto key is pressed, the set value is automatically taken as 21°C.



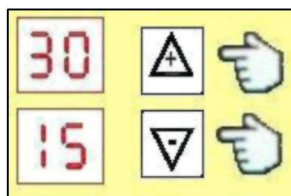
If you set the desired comfortable temperature for operating in "Cool mode" to minimum **1.5 degrees below** the passenger side temperature, then the device will start to operate in cooling mode after 60 seconds. The blowing fans automatically accelerate or decelerate depending on the degree. Press the (Auto) key again to exit the automatic operation mode. Condenser fans are deactivated after 20 sec.

Operation of the Passenger Side Air Conditioner in Heating Mode

If the vehicle has a heated air conditioner (option), it turns on the heated air conditioner. Start the engine of your vehicle.



Press the Auto key on the Control Unit and when you press the **"Auto"** key, your air conditioner will start to run in the **"Auto Mode"**. The red led flashes on when Auto is active.



If you set the desired comfortable temperature for operating the Passenger air conditioner in "Heating mode" to minimum **1.5 degrees** over the passenger side temperature, then the Roof Air Conditioner will start to run in heating Mode. The blowing fans operate in the 1st stage in the "Auto" heating mode. Press the (Auto) button again to exit the automatic operation mode.

Manual Adjustment of the Ventilation Efficiency of the Passenger Side Air Conditioner

It is possible to manually control the ventilation efficiency of the passenger side air conditioner.



By pressing the T-8 fan button repeatedly, you can gradually increase, decrease or turn off the ventilation power.

There is a fan symbol on the three side by side fan keys where you can see the fan speed. If the LED on this symbol is active, the fan speed you have selected can be seen.



Led I (Evaporator blowing fan Level 1 active (relevant led is illuminated))

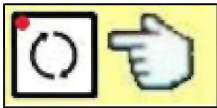


Led II (Evaporator blowing fan Level 2 active (relevant led is illuminated))



Led III (Evaporator blowing fan Level 3 active (relevant led is illuminated))

Operation of the Passenger Side Air Conditioner in Circulation Air Mode



When you press the T9 Flap button on the control unit, the "Circulation air mode" is activated. The corresponding led becomes active. When the air conditioner is in the "Auto" mode, it starts to operate in the "circulation air mode" automatically.

Operation of the Passenger Side Air Conditioner in Fresh Air Mode



When you press the T9 Flap button on the control unit, if the corresponding led is not illuminated, it starts to run in the "fresh air mode". The corresponding led is not illuminated.

Operation of the Front / Driver Side Air Conditioner in Cooling Mode



When you press the T6 driver side cooling button on the control unit, the magnetic valve will open and it will start cooling. The corresponding led will turn on. When you press the same key once again to turn it off, the led flashes off and it turns off.

Note: The front / driver side air conditioner will only perform cooling if the passenger side air conditioner is operating in the cooling mode.

Operation of the Front / Driver Side Air Conditioner in Heating Mode



When you press the T1 button on the control unit, the heating valve is opened and the heating starts. The heating efficiency can be adjusted in 2 steps by pressing the T1 key successively.

When you press the T1 button once, the motorized valve is opened 50% and once you press it again, it is opened 100% fully.

Manual Adjustment of the Ventilation Efficiency of the Front / Driver Side Air Conditioner

The ventilation efficiency of the front / driver air conditioner is controlled only manually.



By pressing the T5 fan button repeatedly, you can increase, decrease or close the ventilation efficiency.



Led I (Frontbox blowing fan Level 1 active (relevant led is illuminated))



Led II (Frontbox blowing fan Level 2 active (relevant led is illuminated))



Led III (Frontbox blowing fan Level 3 active (relevant led is illuminated))

At the same time, when you press the T5 fan button, you can see the fan speed you selected on the control unit display in the following codes.



Screen display dF0 / Blowing fan 0 / off



Screen display dF1 / Blowing fan 1st stage



Screen display dF2 / Blowing fan 2nd stage



Screen display dF3 / Blowing fan 3rd stage

Defrosting the Windscreen with the Front / Driver Side Air Conditioner



When you press the T4 "DEF" button, defrosting of the windscreen starts automatically. The fans automatically rise to the 3rd stage at maximum, the heating valve automatically opens up to 100% maximum, the air blower flap position automatically switches to the windscreen.

Press again the T4 "DEF" key to turn it off (the corresponding led flashes off)

Front / Driver Side Air Conditioner Air Flap Positioning



You can set the air circulation in the driver side in 3 different positions by pressing the T3 air flap positioning key successively.

1. Air flap position to the feet (if activated, the led on the symbol flashes on)
2. Air flap position foot and front torpedo. (if activated, the led on the symbol flashes on)
3. Air flap position to the windscreen (if activated, the led on the symbol flashes on)

Display codes descriptions:

P1 - Internal Ambient Temperature Sensor Right

P1 - Internal Ambient Temperature Sensor Left

P3 - Internal Ambient Temperature Sensor Right / Optional

P4 - Internal Ambient Temperature Sensor Left / Optional

P5 - External Sensor

F0 - Passenger side blower fan off

F1 - Passenger side blower fan Level 1

F2 - Passenger side blower fan Level 2

F3 - Passenger side blower fan Level 3

dF0 - Driver Side Frontbox blowing fan / off

dF1 - Driver Side Frontbox blowing fan / Level 1

dF2 - Driver Side Frontbox blowing fan / Level 2

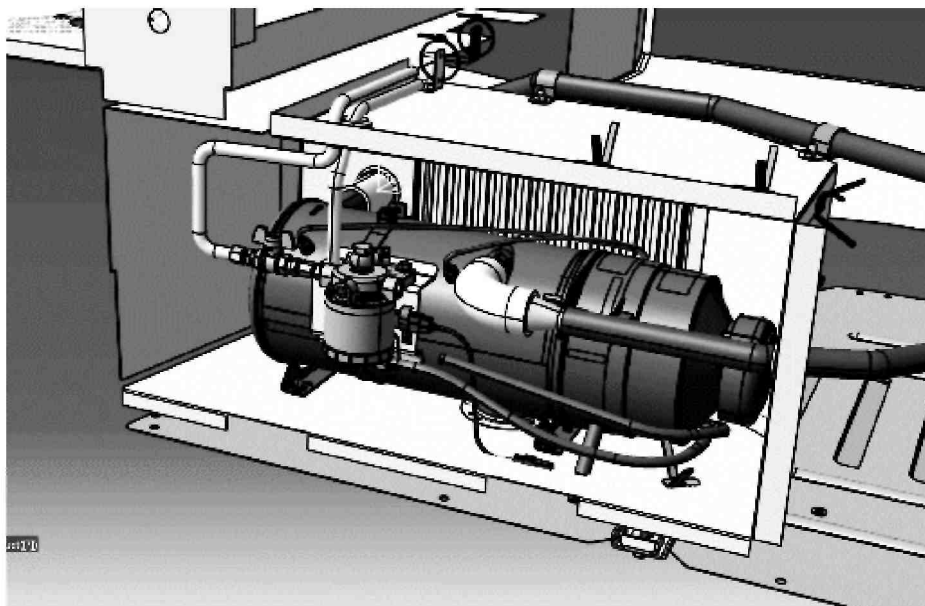
dF3 - Driver Side Frontbox blowing fan / Level 3

Error Codes

There are 10 error codes defined for the air conditioner control unit. EEE - There is an error,

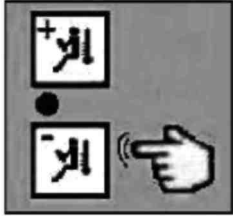
- A1 - There is no main supply
- C1 - Magnetic clutch does not draw the coil
- H1 - Heating valve does not engage
- E1 - Internal ambient temperature sensor error (Right)
- E2 - Internal ambient temperature sensor error (Left)
- E5 - External ambient temperature sensor error
- E6 - Right flap positioning error
- E7 - Left flap positioning error
- E10 - 3-way motor valve positioning error
- E12 - Frontbox air management flap positioning error

PRE HEATER (OPTIONAL)





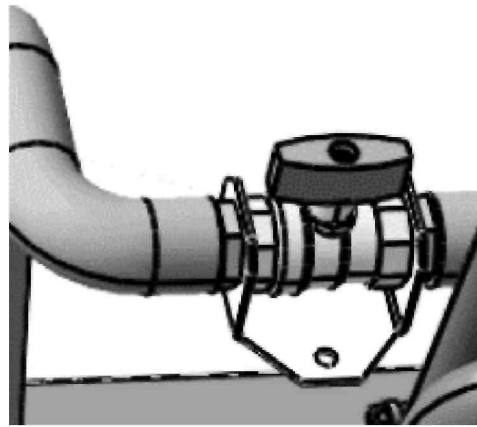
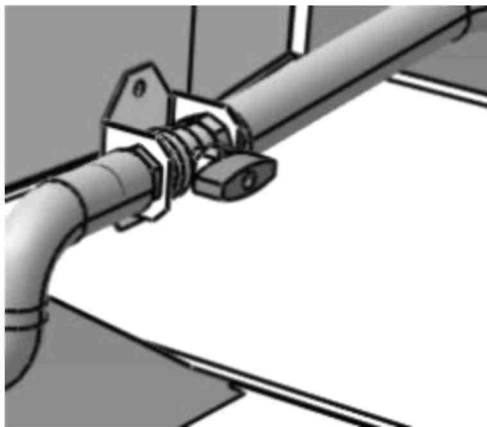
The front heater is located in the lower cabinet behind the rear wheels. The 3-way valve is closed to only pre-heat the engine water. (The - position must be pressed.) The desired programming can be done from the program time. The 3-way valve is opened to support the heating system. (The + position must be pressed.)



The filter valve must be open while running the preheater. The filter should be cleaned periodically.



Check for fuel leaks on the fuel line and pre-heater before operating. The air setting for the pre-heater shall be performed on very cold areas and areas high above the sea level. If the air setting is not performed, black smoke comes out of the exhaust of the pre-heater (Air setting is performed by the authorized pre-heater service only). The pre-heater shall not be operated when the heating system is set to summer mode (when the manual valves are off).



Also, the battery switch and main power switch should not be turned off after the preheater is switched off. After the preheater is switched off, it automatically cools down for 5 minutes. The preheater may be damaged if the power switches are turned off.



The heater can turn itself off due to overheating for any reason. If the heater turns itself off several times due to overheating, the control circuit turns off the heater automatically. Please contact the Authorized preheater service to open the heater and to eliminate the problem.




The preheater is controlled from the controller on the console on the driver's side.


Use of Preheater

The pre-heater control unit is located in the top console of the driver






Main Functions of the Keys:



-  With this key you can operate the heater or confirm the inputs.
-  With this key you can turn off the heater, exit the menus or stop the functions.
-  keys may be used to select and adjust the functions.

-  The ventilation symbol operating unit appears only if it is connected to heaters (dry type heaters) that support this function.



Running the Ventilation

Select with  and confirm with the  key


Set the operation time with the  keys

Confirm the settings with , the ventilation will start to run. Press and hold  key for 2 seconds to turn off

Running the Heater with the Additional Unit

Select with  and confirm with the  key



set the desired ambient temperature (only with dry type heaters) and the operating time with the

  keys, and confirm the settings with , the heater shall start to operate. Press the  key for 2 seconds to turn off.



^{AD} Additional Unit symbol

Additional Unit function can be activated by the Eberspaecher authorized service stations.

Running the Ventilation with the Additional Unit


Select with ^{AD} and confirm with the  key
Perform the steps in the running the ventilation section. Press
the  key for 2 seconds to turn off

Running the Heater with the Additional Unit




Select with ^{AD} and confirm with the  key Perform the
steps in the running the heater section. Press the  key
for 2 seconds to turn off




P Programming symbol

For programming

Select with **P** and confirm with the  key

Select one of P1, P2 or P3 programming memories with the   keys, and confirm with 

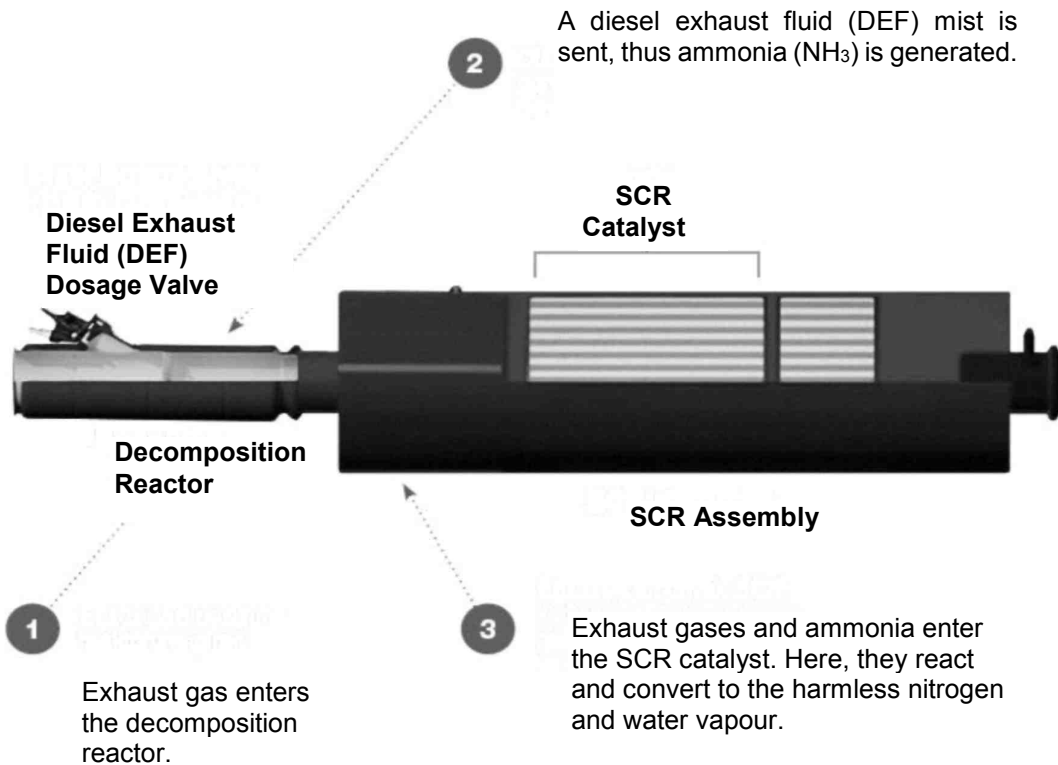
To activate the recorded program; bring the program to "ON" position with the   keys, and confirm
with the  key

For the cancellation of the selected program; bring the program to "OFF" position with the   key and
confirm with the  key.

SCR SYSTEM and DIESEL EXHAUST EMISSION LIQUID TANK

The diesel exhaust emission liquid is a 32.5% urea solution in demineralised water. It is a liquid consumed to reduce the emission ratios of the engine.

The diesel exhaust emission liquid is pumped into the exhaust gases by the dosing pump. It forms during combustion and reacts with nitrogen-oxide gases being discharged and converts these gases into pure nitrogen and water. This process is called "Selective Catalytic Reduction" (SCR).



The diesel exhaust emission liquid tank filling cover is located behind the rear door in the vehicle. The capacity of the diesel exhaust emission liquid tank is 47 litres. The liquid level in the tank is checked constantly. If the level drops below a certain value, the warning lamp on the display flashes on red. In this case, liquid level must be supplemented immediately. The tank must always contain at least 6% liquid for healthy operation of the vehicle. When the level of the diesel exhaust emission liquid falls below this value, the engine gives a malfunction code and cuts the power. The diesel exhaust emission that you purchase for the efficient operation and long life of the SCR system must be certified to comply with the American Petron Industry (API), DIN 70700, ISO 22241 and AUS 32 standards. Adhering to these standards guarantees that the liquid has the appropriate purity and concentration (32.5%). No additives are to be added to the diesel exhaust emission liquid.

DIESEL EXHAUST EMISSION LIQUID HEATING SYSTEM (OPTION)

The diesel exhaust emission liquid used in the vehicle starts to freeze at -11°C . When the temperature rises, the engine begins to spray urea into the exhaust system. If, when the engine warms up, the liquid in the tank remains frozen, the engine cuts power since there will be no urea spray. For this reason, in cold climate conditions (at -7°C and lower temperatures), the engine heats the diesel exhaust emission liquid tank with hot water and the diesel exhaust emission liquid line from the tank to the injector with the electric heater.

ELECTRONIC BRAKE SYSTEM (EBS)

Electronic brake system is equipped with both electronic and pneumatic infrastructure. Brake system is controlled electronically under normal conditions. Brake request from the driver is processed by the control unit, and the best braking at that condition is provided. This system offers better performance than the conditioning systems. The system does not turn itself off in case of an electronic failure, it continues to operate pneumatically.

The EBS system contains the following functions:

- 1) **Anti Block System (ABS)**: Prevents the vehicle from sliding by preventing the locking of wheels while braking.
Ensures stability of steering in abrupt brakings.
- 2) **Anti Skid System (ASR)** : On ramps, on slippery surfaces and during acceleration, when the drive wheels skid, ASR is engaged and the driving safety is improved by reducing the slip to the minimum level.
- 3) **Drift Torque Control (DTC)**: The wheels can be locked due to the inertia of the transfer organs on slippery grounds. This system is engaged and increases the engine torque and tries to maintain the road holding.
- 4) **Electronic Brakeforce Distribution (EBD)**: It distributes the braking force required according to the load condition and the wear of the linings on the vehicle to the wheels.
- 5) Wear of the linings can be controlled, the lining thickness on the instrument panel is continuously monitored.
- 6) **Retarder Integration**: The system is in constant interaction with the retarder. In the case of light brakes, the retarder is engaged, preventing wearing of the linings. At the same time, it supports the braking system under normal conditions. When the ABS function is operated, the retarder system is deactivated.

In the event of electronic malfunctions, the safety functions will not work, the brake performance will reduce, and in this case the driver will have to contact carefully with the nearest Authorized Service. Safety functions such as the ABS, ASR and DTC are effective in reducing the risk of accidents but the most important point is that the vehicle is driven according to the traffic and road conditions.

ENGINE CHAMBER FIRE DETECTION SYSTEM

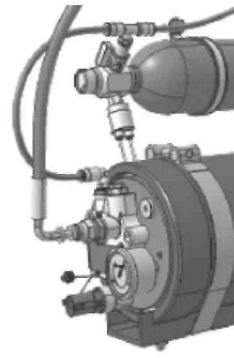
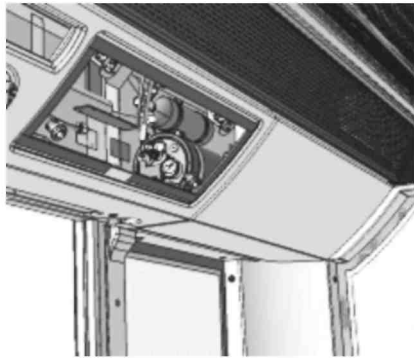


It is a system that gives a red light and buzzer warning on the information screen when the engine chamber temperature exceeds 175°C . There are fire detection sensors in the engine chamber.

ENGINE CHAMBER FIRE EXTINGUISHING SYSTEM (OPTIONAL)

It is a system that consists of a pressurized fire detection hose and fire spray nozzles which is passed through the areas where fire may occur in the engine chamber. There are 2 tanks in the system, one is the nitrogen tank which enables detecting the fire and the other is the extinguishing tank which contains the fire extinguishing liquid. Illuminated and audible warning lights warn during a fire detection.

During extinguishing process, the fire extinguisher is sprayed from the nozzles, which reduce the temperature and turn into column shaped smoke clouds that cut off the contact with air. The fire extinguisher is basically antifreeze water based. The extinguishing time is normally 3- 5 seconds and the effective time is 50- 75 seconds.



In case of fire;

- Stop the engine
- Empty the vehicle
- Close the current
- Keep the engine hood closed for at least 5 minutes
- Use a portable fire extinguisher if necessary
- Contact the authorized service.



When the fire extinguishing system comes into an active state for any reason other than fire and the tanks are empty, the following procedures must be carried out:

- Wash all component surfaces with water to avoid corrosion of the parts in the engine chamber affected by the system
- Supply water to the fire extinguishing tubing system and wash inside of the pipes and the nozzles, if it is late for this process, remove the nozzles and clean them with water together with the tubing. Replace the nozzles if necessary.
- Put on protective covers on the nozzles again
- Mount the filled tanks and re-engage the system.

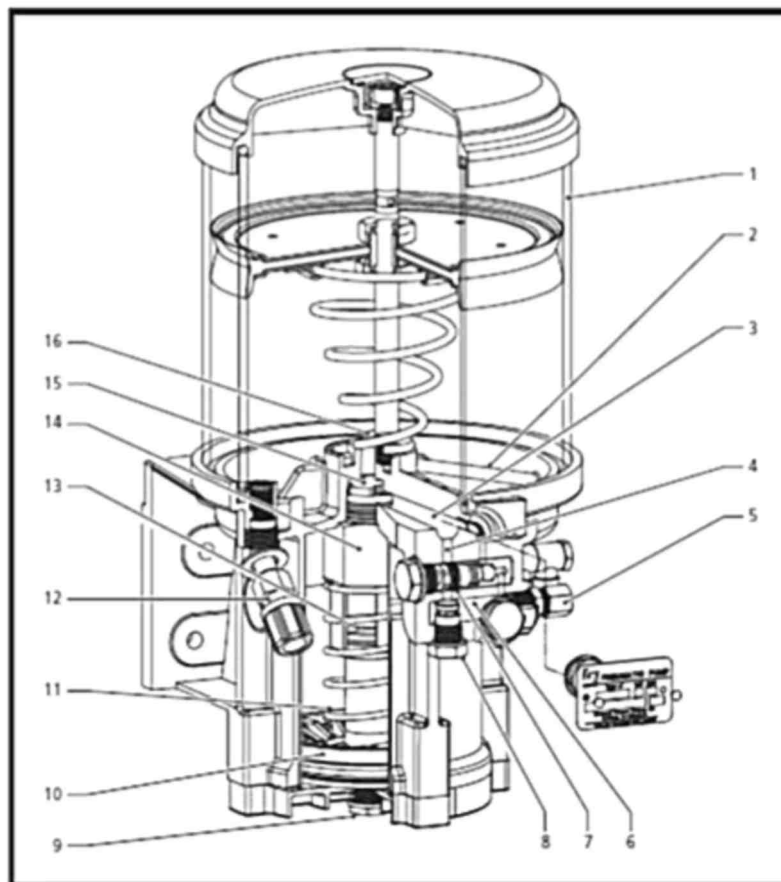
AUTOMATIC GREASING SYSTEM (OPTION)

The automatic greasing system is a system that sends oil to 10 grease fitting points on the front axle at certain periods. The system's pump and grease unit is located on the front of the vehicle. It supplies oil to the front axle as 0.2 and 0.15 cc at certain periods.

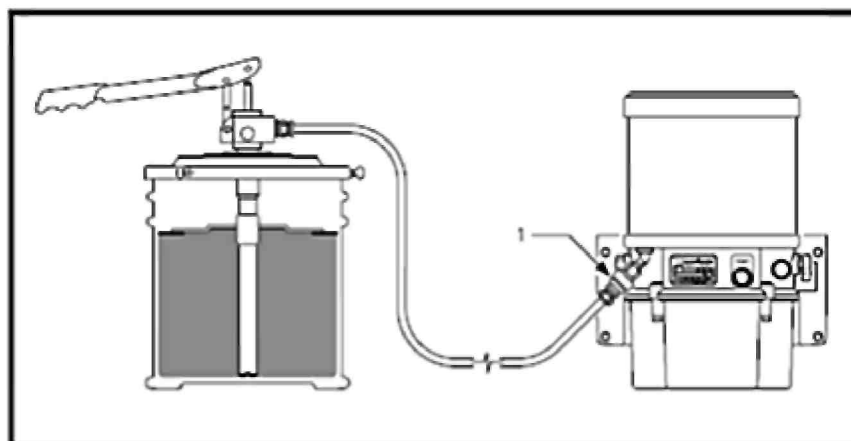


If there is a fault in the system, a yellow warning buzzer is activated on the information screen.

Automatic Greasing System Filling Procedure



The place shown in the figure with number 12 is the filling point.



The grease in the tank must be refilled when it reaches the minimum level, for which usually a filling pump is used. The filling procedure is as follows:

- There should be no air in the hose during the first filling, otherwise air will be pumped into the tank. For this, press the marble at the end of the connector and pump until oil comes out from the hose.
- Remove the dust plug from the filling mouth
- Clean and the connectors both on the hose and on the tank thoroughly
- Mount the hose and the tank connectors together
- Fill the tank so that it does not exceed the maximum level (2 cm below the tank) or until the level plate comes to the stopping point
- Disconnect the connectors from each other
- There is a filter in the tank connector. If it is difficult to pump, the filter may be clogged. In this case, remove the filter and clean it.

5. SERVICE AND MAINTENANCE

CLEANING THE VEHICLE

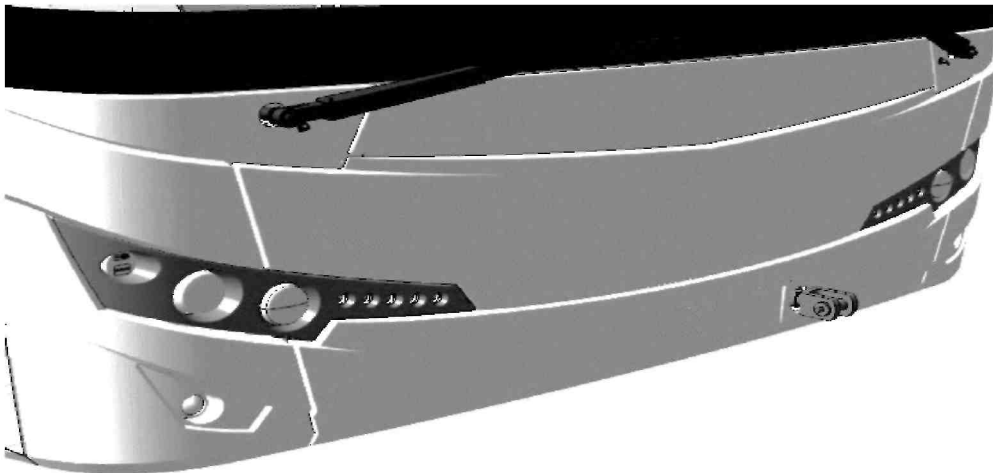
Exterior Cleaning

Do not clean your vehicle with detergents and chemicals, do not wipe with gasoline.
Use pressurized water when cleaning the vehicle, do not leave the excess water on the vehicle after cleaning, remove the excess water with a cloth or chamois
Do not wash your vehicle under hot sunlight.
Keep the insides of the fenders clean in winter.
Use only soap and water when cleaning the air bellows inside the vehicle.

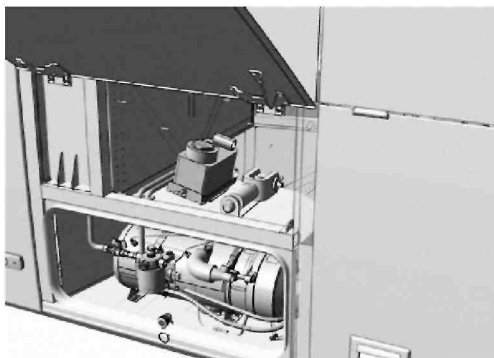
Interior Cleaning

Clean the instrument panel with a wet cloth, never use any substances such as alcohol or thinner.
Clean the seats with a wet cloth or a foamed artificial leather cleaner. Clean the passenger floor with a wet mop, then dry the floor.

TOWING THE VEHICLE



- Open the towing hook cover on the front bumper.
- Take the towing hook from the pre-heater cabinet behind the left rear wheel
- Screw the towing hook firmly into the slot on the bumper and make sure it is fitted.

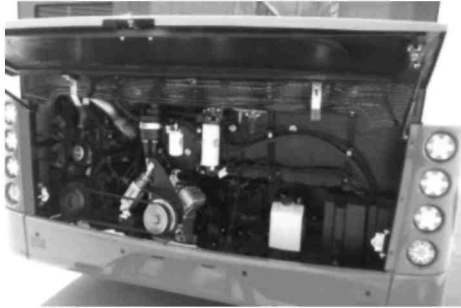


ENGINE MAINTENANCE

The vehicle's engine is accessed from 4 sections.

It is possible to access the engine from behind, from the left side, inside and under the vehicle.

Rear lower cover



You may access the alternators, A/C compressor, V-belts, recirculation pump, fuel water separator, oil tank for engine oil supply, Diesel exhaust emission fluid tank, ECM (Electronic Control Module), oil dipstick, steering tank, dosage pump and air filter of the dosage pump by opening the rear lower cover.

Rear upper cover



The hydraulic fan oil tank and the hydraulic fan motor are accessed by opening the rear top cover.

Left side lower cover



The oil filter, fuel filter, starter, alternators and turbo unit are accessed by opening the left side lower cover.

Left side radiator cover



The cooling unit, the expansion tank water filler neck and level sight glass are accessed by opening the left side radiator cover.

Left side filter cover



The air filter, valves and pumps for the heating system are accessed by opening the left side filter cover.

Internal covers



Air compressor, hydraulic fan, steering pump, fuel filter, fuel pump, temperature and Nox sensor on the exhaust gas treatment unit, urea injector, rocker cover, engine oil filler, transmission oil filler and dipstick port by opening the 2 covers inside the vehicle.

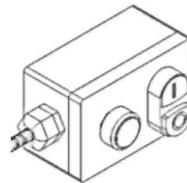
Bottom cover

The engine oil pan is accessed by opening the cover under the vehicle.

Start / Stop Button Group



If it is necessary to start the engine during an engine maintenance operation, the rear bottom cover of the vehicle is opened and the start/stop button group here is used.



To start the engine, the ignition key is put to the "M" position and this button is pressed when the transmission is in the "N" position.



This button is pressed to stop the engine.

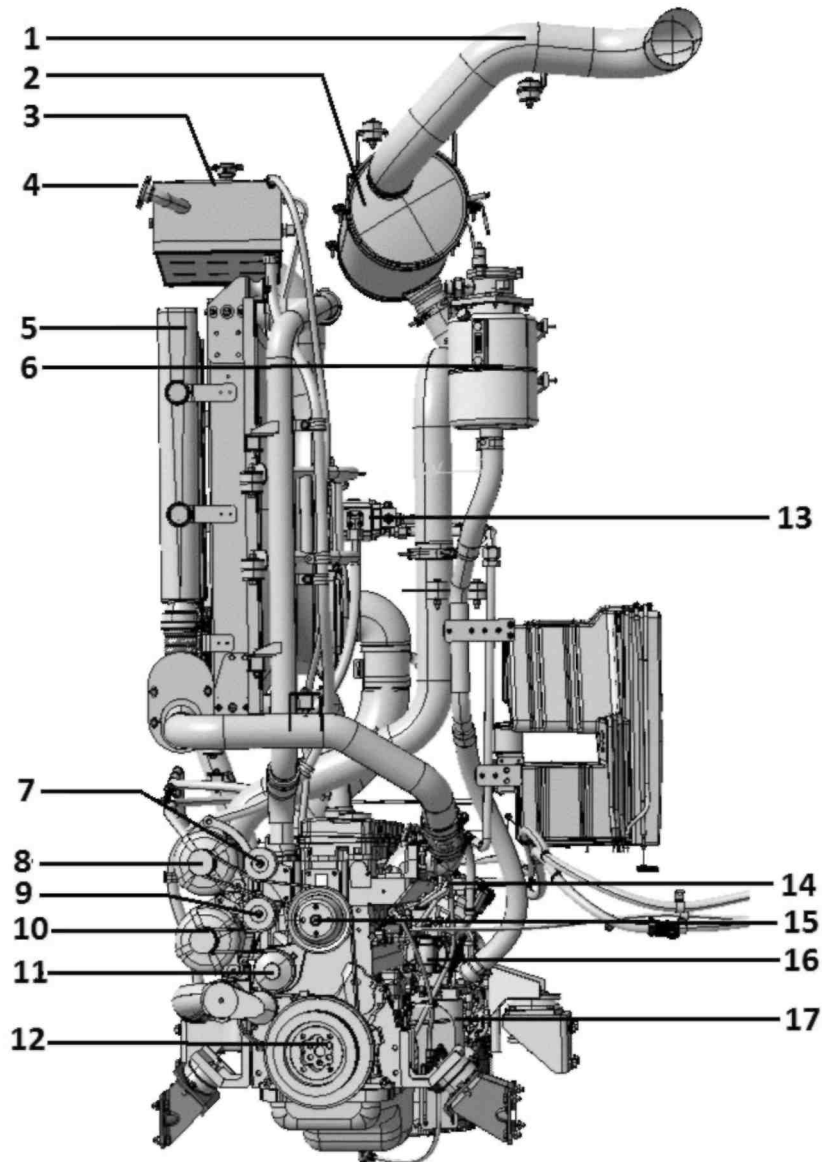


This (green) button is pressed for illumination of the engine.

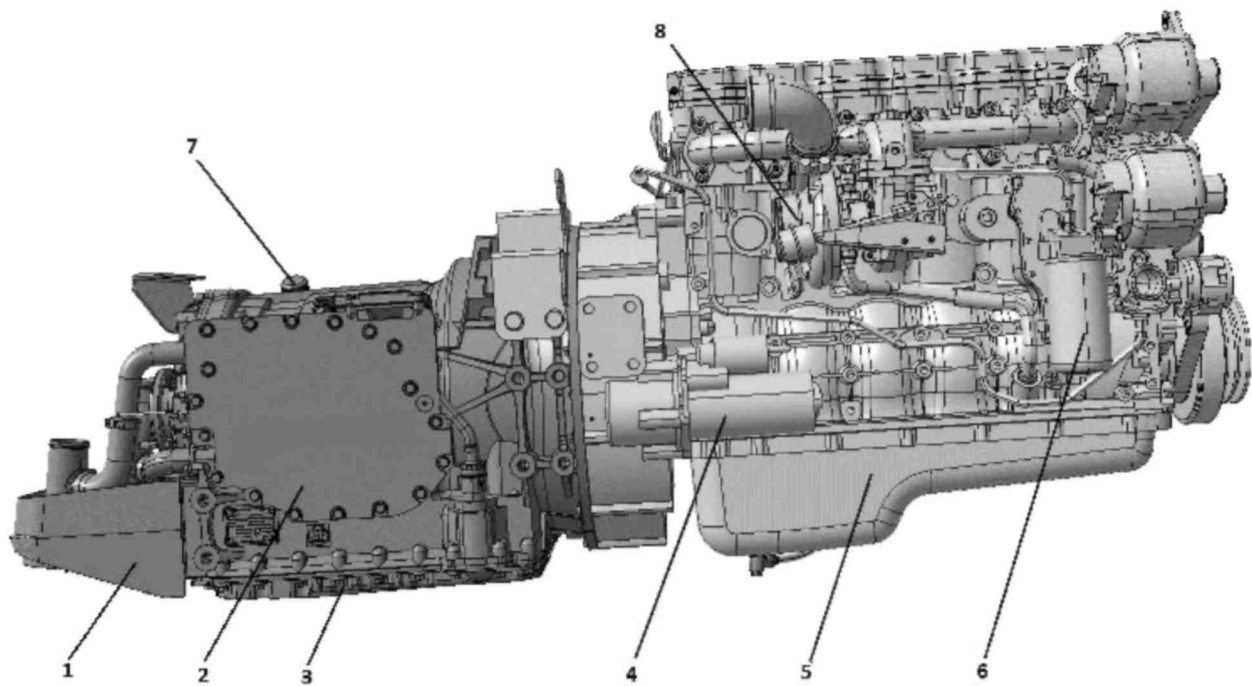


For safety reasons when the rear cover is opened, there is a safety switch that prevents the engine from being operated from the driver's side.

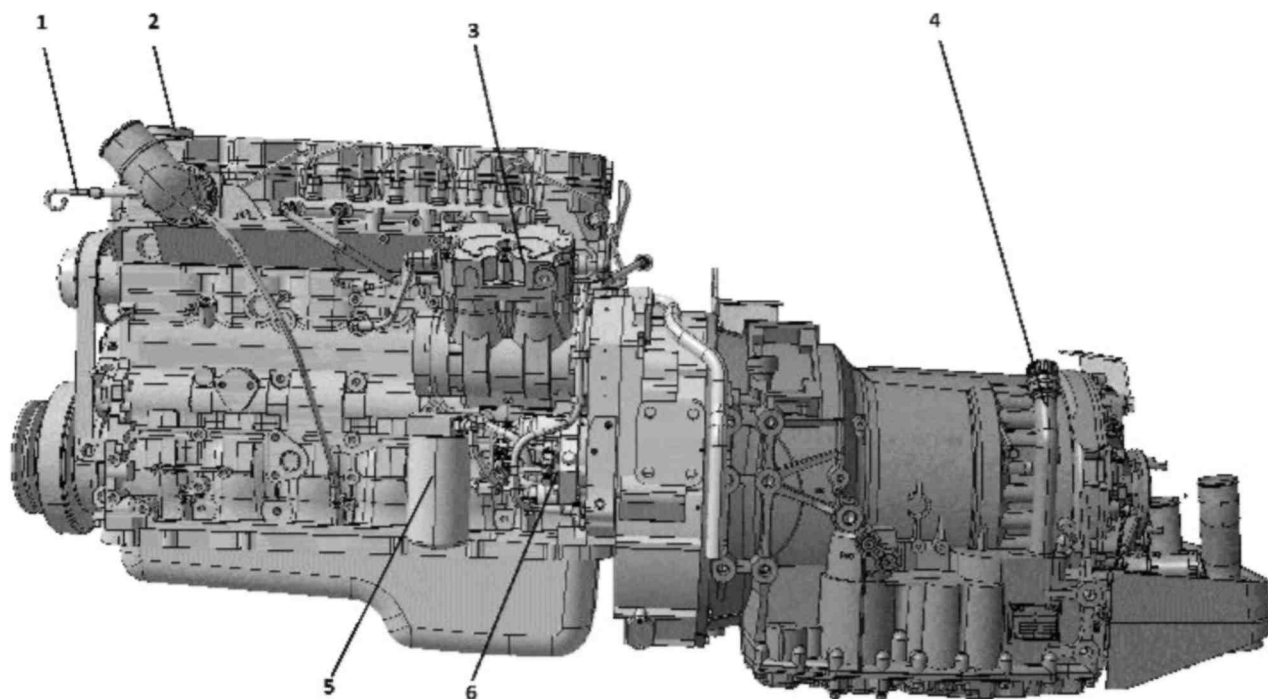
ENGINE



- | | |
|---------------------------|-----------------------------------|
| 1 Exhaust Outlet Pipe | 9 Guide Pulley |
| 2 Exhaust Silencer | 10 Alternator |
| 3 Expansion Tank | 11 Recirculation Pump |
| 4 Filling Neck | 12 Crankshaft Pulley |
| 5 Cooling Unit | 13 Hydro fan Motor |
| 6 Hydro Fan Oil Reservoir | 14 Oil Rod |
| 7 Guide Pulley | 15 Camshaft Pulley |
| 8 Alternator | 16 Hydro Fan - Steering Gear Pump |
| | 17 Fuel Filter |



- 1 Torque Converter Oil Cooler
- 2 Transmission Oil Cooler
- 3 Transmission Oil Pan
- 4 Starter
- 5 Engine Oil Pan
- 6 Oil Filter
- 7 Transmission Oil Filling Cover
- 8 Turbo Unit



- 1 Oil Rod
- 2 Engine Oil Filling Cover
- 3 Air Compressor
- 4 Transmission Oil Filling Pipe
- 5 Fuel Filter
- 6 Fuel Pump

ENGINE LUBRICATION SYSTEM

Changing the motor oil

- Place the vehicle in a horizontal position
- Run the engine until the coolant reaches 60°C
- Switch off the engine
- Remove the oil drain plug, drain the oil into the oil collecting container (remove and replace the oil filter if the oil drain is performed as a service maintenance interval)
- Install the oil drain plug with a new sealing washer and tighten with a torque of 80 Nm.



Use engine oil as specified in the fluid specifications.

- Do the oil filling process from the oil filler neck on the rocker cover
- Open the cover, fill oil in the amount specified in the fluid specifications
- After waiting 5 minutes for the oil to reach the pan, check the oil level from the oil dipstick (H level) and close the cover.

Fluid Level Check

You can access the oil dipstick by opening the rear engine cover. For oil level check;

- Take the dipstick out
- Wipe it with a clean cloth
- Install the dipstick back and pull again
- Check the oil level, fill to level H



If the oil level is a little above the level L, it must be added (on vehicles without the oil supplementing system). The oil level must not fall below L.

ENGINE OIL SUPPLEMENT SYSTEM (OPTIONAL)

Engine oil supplement system adds oil automatically when the engine oil level of the vehicle is decreased. There is an oil tank of 6 L capacity in the engine compartment of the vehicle. The system checks the oil level automatically when the ignition key is switched on after it has been off for 3 hours. In case the engine oil level decreases, the pump connected to the oil tank replenishes 0.5 L of oil to the engine.

There is a warning lamp on the information display which gives a warning when there is a fault in the system during engine oil replenishment.



ENGINE COOLING SYSTEM

The engine cooling system ensures that the engine temperature remains within the proper temperature range, thus keeps the engine running efficiently and maintains the proper oil viscosity to prevent engine wear. The system also cools the transmission. Also, it provides the hot water requirement of the heating system and the heating of the diesel exhaust emission fluid tank (optional) at very low temperatures. The coolant used in the cooling system is a mixture of 50% water and 50% antifreeze, the antifreeze used shall comply with ASTM4985 (GM6038M specifications) or ASTM D6210 standards. This mixture has a freezing point of -36 °C and a boiling point of +108 °C. No additional additives shall be used in the coolant.

ADDING COOLANT TO THE ENGINE AND HEATING SYSTEM

When the liquid level in the tank drops to a minimum level, it can be seen with a lens on the tank. Also, with a warning indicator on the tank, a warning appears on the instrument panel.

- The vehicle is parked on a level ground.
- The entire heating system is switched on at the maximum position (All valves, all pumps are open. All lines are open. The controller is taken to manual maximum heating mode. The manual valves are open. The electronic 3 way valve is open. The system pump and heated air conditioner pump are running)
- The addition of the coolant is done via the radiator expansion tank. There are two covers on the tank. The other cover which is accessed from the left side cover is used for adding liquid to the system. The steam in the tank is discharged by the valve in the upper zone of the tank, which is opened with 1 bar pressure. This cover must always be open during filling liquid. Coolant check and liquid addition must be carried out when the engine is cold. Coolant is added until it overflows from the tank filler.
- After the initial addition of fluid, the filling cap is closed and the engine is warmed until it exceeds 83°C. The engine should be run for at least 10 minutes at a temperature range of 83-95°C.
- During this time, the thermostat is opened, the air in the cooling system is discharged and at the same time the air of the system should be discharged from the air relief cocks on the radiator. The engine is increased to the maximum speed during the discharging process (the air in the system must also be discharged from the air relief cocks on the heated air conditioner). As a result of these operations, the liquid level inside the expansion tanks drops.
- Wait until the engine cools down and add liquid again from the filling neck until the liquid overflows.
- If the heaters do not blow hot while the engine is hot as a result of all these operations, it means that the air of the radiator line is not completely discharged. In this case, the engine is run again at maximum speed for 15 minutes and adding liquid is repeated until it overflows when it cools down.



The filling cap should not be opened when the engine is hot. Otherwise, the fluid may overflow from the cover causing serious injury.

REPLACING THE OIL FILTER

The oil filter can be accessed from the left side lower cover. To replace the oil filter;

- 1 Clean the oil filter cap and remove the filter with the aid of a filter remover
- 2 Fill the new filter to be installed with clean engine oil
- 3 Apply a thin layer of engine oil to the oil filter o-ring
- 4 Tighten the oil filter by hand until it touches the surface of the rubber seal, then tighten % turns more with a filter apparatus
- 5 Start the engine and check the filter for leakages.

REPLACING THE FUEL FILTER

The fuel filter can be accessed from the left side lower cover. To replace the fuel filter;

- Remove the fuel filter
- Remove the paper filter element inside the filter
- Remove the o-ring inside the filter
- Fit the new filter element properly into the filter
- Attach the new o-ring to the filter
- Lubricate the fuel filter o-ring with clean lubrication oil
- Fill the fuel filter with fuel
- Install the fuel filter on the fuel filter cap so as to hold a thread
- Tighten the filter with a torque of 32 Nm

FUEL WATER SEPARATOR



The fuel water separator is located in the centre position as installed on the body when the rear lower cover of the vehicle is opened. Its function is to enable efficient use of fuel by distilling the water in the fuel.

For discharging the water that accumulates in the filter of the fuel water separator;

- Rotate and open the water discharge tap
- In a controlled manner, re-tighten again when switching from water to fuel
- After starting the engine, check for leakages.



To replace the fuel water separator's filter;

- Remove the connection cable of the fuel water control switch
- Remove the fuel filter
- Discharge the fuel filter, remove the fuel water control switch from the fuel filter
- Check for damages or cracks on the switch.
- Re-install the fuel water control switch to the new filter
- Lubricate the fuel filter o-ring with clean engine oil
- Install the filter.

CHECKING THE BRAKE DISCS AND THE BRAKE LININGS



The lining warning indicator should be checked regularly. When the lining indicator value is 10%, it must be replaced by an authorized service. The right and left brake linings on the same axle must be replaced together. The original brake part defined by the vehicle manufacturer must be used.

Brake discs should also be checked and if necessary, replaced when replacing the brake linings. Otherwise, the brake performance may be affected adversely.

MAINTENANCE OF THE TRANSMISSION

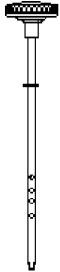
The oil type should be 20E or 20F according to TE- ML 20.105 based on the ZF specifications.

The transmission takes 38 L of oil in the first filling.

When oil is to be replaced, discharge of the oil should be waited for about 10 minutes and then 24 L of oil should be added.

Fluid Level Check

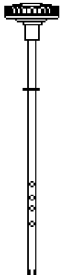
Oil level check when the transmission is cold



30°C cold

- Park the vehicle on a level ground.
- Put the transmission in the "N" position
- Run the engine for 10-20 seconds, at 1200- 1500 rpm
- Take the engine in idle
- The oil level should be at the "30°C (cold)" level on the oil dipstick.

Oil level check when the transmission is hot (90°C):



90°C hot

- Park the vehicle on a level ground.
- Put the transmission in the "N" position
- Run the engine for 10- 20 seconds, at 1200- 1500 rpm
- Take the engine in idle
- The oil level should be at the "90°C (hot)" level on the oil dipstick.

Oil Replacement Period

The transmission oil must be replaced at the **180,000 km or every 3 years** (whichever comes first). The pressure filter must also be replaced with every oil replacement.

Discharging the Oil

- Discharge the transmission oil for 10 minutes while the transmission is hot
- Stop the engine
- Remove the oil plug.
- Remove the oil plug on the filter cover and also discharge the oil in the filter section
- Remove the filter cover
- Replace the o-ring on the cartridge filter (pressure filter) and the filter cover's plug.

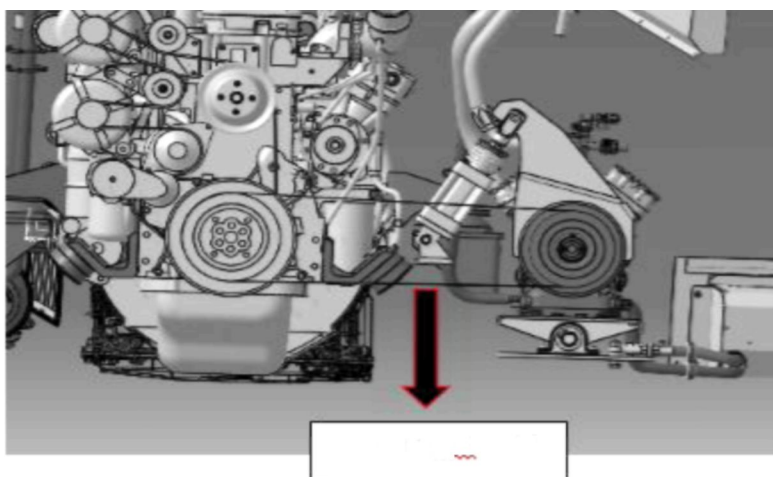
Oil Filling

- When attaching the filter cover, tighten the bolts with a torque of 29 Nm, pay attention to the bolt lengths
- Install the plug on the filter cap (tightening torque 25 Nm)
- Tighten the oil plug with a torque of 35 Nm
- Add oil from the oil filler neck
- Check the oil level with a dipstick.

REPLACEMENT OF DIFFERENTIAL OIL

- Place the oil drain container under the differential housing for draining the oil
- Unscrew the oil drain plugs located under the housing, discharge the oil to the container
- Replace the plug washers after draining and tighten the plugs with a torque of 35- 40 Nm
- When the level check plug is closed, remove the fill plug and fill in the oil (differential oil capacity is 16.5 litres)
- Wait for 15 minutes after the filling process so that the oil is spread onto the axles
- Remove the level check plug to check the oil level being filled (oil level should be at the plug slot level).
- When the required level is reached, replace the washers of the plugs and tighten at a torque of 130 Nm.

AIR CONDITIONER COMPRESSOR BELT



V-BELT/Double 17"



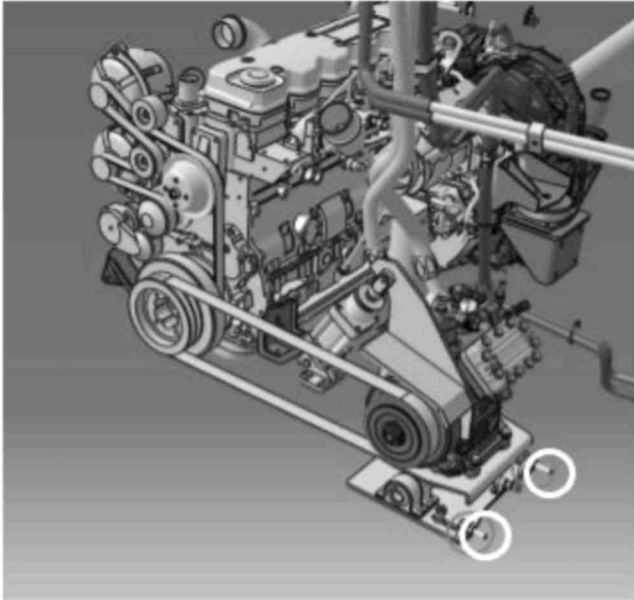
A/C compressor is equipped with a Double 17" V-belt. The codes available on the belts are shown below. If the belts are damaged or ruptured, contact your Authorized Service for replacement.

Lot-number

(Brown Letters)

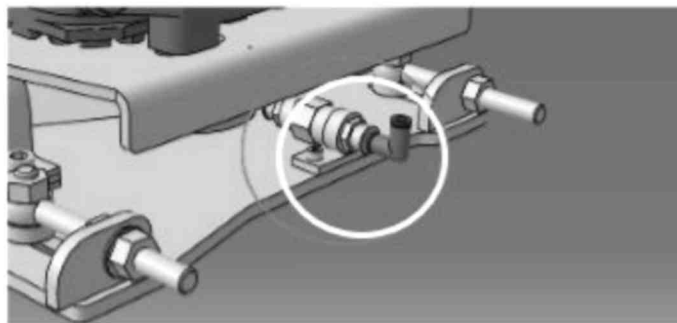
(Black Letters / Silver Back)

(Silver Letters)



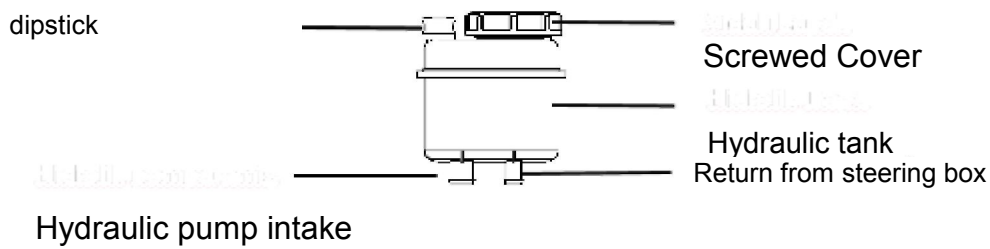
The compressor belt must be tightened by tightening the nuts at the indicated points (This must be performed by the Authorized Service).

However, the tensioning system always actively tightens the belt with an air piston. Before the first operation, check whether the air valve below is open. The air valve should be open. A 6 bar air tightens the compressor together with the piston.



Do not operate the engine if the valve is closed. There is a risk of shoot out and breaking of the belt since the belt is not under tension
Do not approach while the engine is running and the belt is rotating and do not touch the belt with hands.

STEERING HYDRAULIC TANK



It is located on the right side of the engine when the rear maintenance cover is opened. There is a screw-cover and a dipstick on the reservoir. Oil level check should be done every 3,000 km. For the oil level check, the dipstick of the reservoir is removed, there is a minimum and maximum line on the dipstick and the oil level shall be between these lines.

For the power steering and the pump to operate without *any problems*, the oil specified by the vehicle manufacturer must be used. If there is not enough oil in the steering system, the vehicle must not be started, the steering pump may be damaged. If the oil has decreased, oil is filled up to the maximum line of the dipstick.

GLASS WATER JET WATER TANK

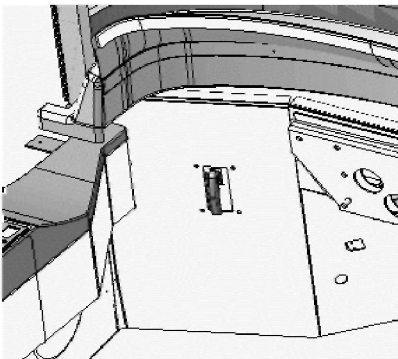


Fig. 1

The front dashboard cover of the vehicle is opened with the lever (Figure 1) located at the left knee level of the driver (Figure 2). After opening the cover, a glass wash water can be put in the tank up to a level of maximum 10 litres.

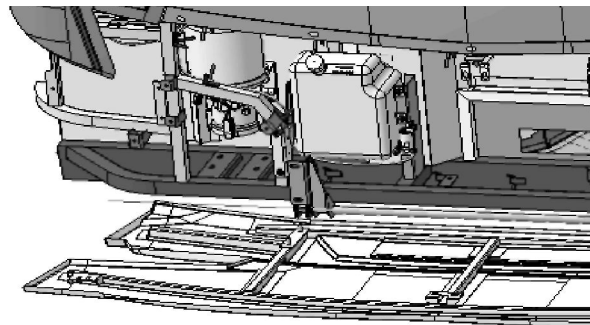
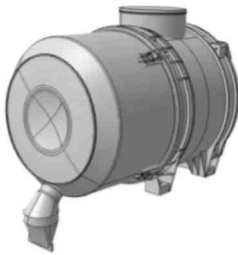


Figure 2



In cold weathers, an antifreeze-glass water should be used to prevent the water from freezing.

AIR FILTER



The air filter is accessed by opening the left rear side cover of the vehicle.

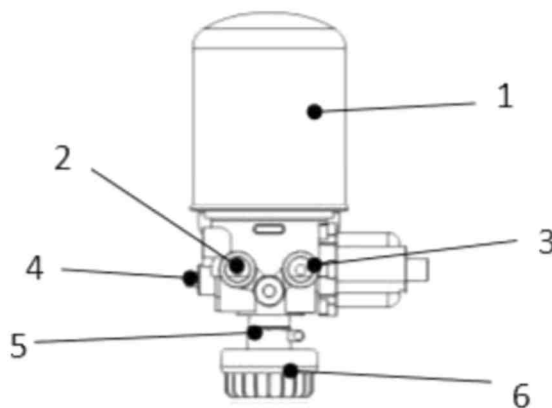
To clean the air filter, the rubber dust valve located on the bottom side is squeezed from its edges to discharge the accumulated dust.

Air Filter Element

Air filter element must be replaced every 30,000 km, the following steps should be followed for the replacement:

- Open the connection latches
- Pull the rear cover towards yourself
- Remove the filter element by pulling it towards yourself
- Place the new filter element in the body housing and push it forward to fit it into its place
- Place the rear cover in the body so as that the discharge valve faces directly downwards
- Close the latches.

AIR DRYER



1. Cartridge
2. Compressor connection
3. Four way valve connection
4. Heater
5. Air discharge
6. Silencer

The air dryer is located in the front of the right rear tire. The function of the air dryer is to adjust the air system pressure and to reduce the moisture and oil in the air pumped from the compressor. There is a heating feature that prevents the dryer from freezing in cold weathers. This feature is especially activated at low temperatures and deactivated at high temperatures. The air dryer fills up the system with air until the circuit breaker discharge at 9.8 bars. When the filling process is completed, the dryer discharges the accumulated water and the oil from the silencer which is located in the lower part of the dryer with pressure. Thus, it cleans itself. At the end of **1 year or 40,000 km** usage, the cartridge of the air dryer should be replaced.

REPLACING THE WINDOW WIPERS

There are 2 wiper external arms in the vehicle, including right and left.

To replace the sweeper of the wiper, remove the bolts and nuts in the middle of the sweeper (Figure 1 and Figure 2).

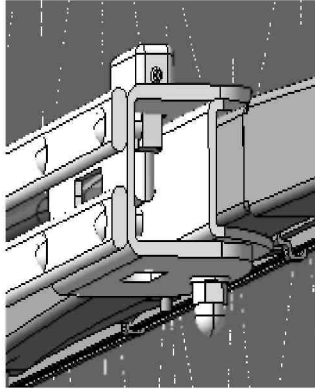


Figure 1

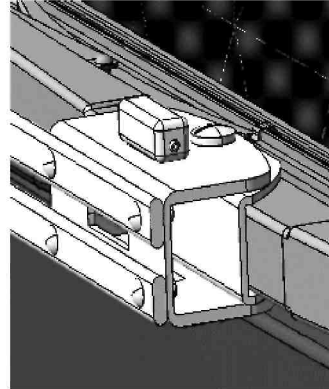


Figure 2

For the complete replacement of the wiper external arm, the plastic cover at the point of attachment to the vehicle body is opened and the wiper arm is removed by unscrewing the nut here (Figure 3). The jet hose connected to the arm during removal of the wiper arm must also be removed from the point of attachment to the vehicle body (Figure 4).

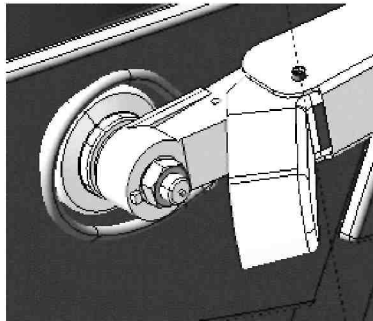


Fig. 3

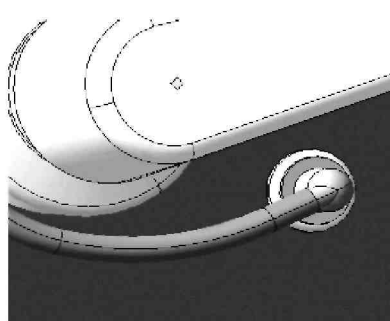


Fig. 4



**During winter, the wiper blades must be checked and replaced if necessary.
Replacement of wiper internal mechanism should be performed by an authorized service.**

FUSES / RELAYS

The fuse and relays panel is located behind the left ventilation cover, which is located on top of the battery cabinet. The fuse layout and the values are located on the fuse label under the cover. The fuses used in the vehicle are of blade type.

When a short circuit or leakage current occurs in the system, the relevant fuse trips as an open circuit to protect the electrical components. After the electrical fault is removed, the fuse is replaced with a fuse having the same ampere.

REPLACING THE LAMPS

Replacement of the Dipped Headlight Bulb

- Open the front engine hood
- Pull out and remove the rubber guard behind the headlight unit
- Remove the bulb by pressing inward on the wire clamps
- Replace with an equivalent bulb
- Install the rubber guard so as that the water hole is facing downwards

Replacement of the High Beam / Parking Bulb

Replacement of the high beam bulb

- Open the front engine hood
- Pull out and remove the rubber guard behind the headlight unit
- Remove the bulb by pressing inward on the wire clamps
- Replace with an equivalent bulb
- Install the rubber guard so as that the water hole is facing downwards

Park bulb

- Open the front engine hood
- Pull the socket with the bulb at the bottom end of the headlight unit
- Replace with an equivalent bulb
- Re-install the socket

Replacement of the Side Turn Signal Lamp

- Disconnect the lens from the body
- Pull the lamp out by removing the screws of the frame
- Remove the socket
- Replace with an equivalent lamp
- Fit the lens by screwing the frame into its place

Replacement of the Rear Signal, Rear Brake/Parking, Reverse Gear, Rear Fog Light Bulb

- Remove the lens by removing the screws
- Remove the bulb by rotating
- Replace with an equivalent bulb
- Screw the lens together with the rubber seal

Replacement of the Front Turn Signal Lamp

- Open the front engine hood
- Remove the headlight cover entirely
- Remove the front turn lamp screws
- Disconnect from the socket
- Replace with an equivalent lamp
- Re-install the front turn signal lamp by screwing

Replacement of the Daytime Driving Lamp

- Open the hood
- Remove the headlights cover from its place
- Remove the brackets that prevent the lamps on the cover from moving out by removing their screws
- Remove the lamps from their socket
- Disconnect the adapter (driver)
- Replace with an equivalent lamp set
- Re-install the headlight cover by screwing the brackets
- Screw the adapter (driver) back

Replacement of the Front Fog Lamp Bulb

- Pull out and remove the rubber guard behind the headlight unit
- Remove the bulb by pressing inward on the wire clamps
- Replace with an equivalent bulb
- Install the rubber guard so as that the water hole is facing downwards

Replacement of the Roof Lighting Leds

There are lighting lamps on the right and left side of the roof. The lighting lamps consist of led groups of certain sizes. If there is a problem in one of the roof lighting LEDs, the polycarbonate lens on the lighting is removed and the problematic led/leds group is/are replaced with a new one.

Replacement of the Rear Reflector

- Remove the rear reflector from its place
- Clean adhesive residue on the bumper
- Tear off the adhesive protection in the rear reflector
- Paste the rear reflector in its place

Replacement of the Front and Rear Positioning Lamps

- Remove the lamp
- Pull out and disconnect from the socket
- Replace with an equivalent lamp
- Re-install the lamp with the gasket

Replacement of the Sidemarker Lamp

- Remove the sidemarker lamp by removing the screws
- Disconnect from the socket by pulling out the lamp
- Replace with an equivalent lamp
- Re-install the lamp by screwing it together with rubber seals

Replacement of the Engine Lighting Lamp

- Open the rear radiator cover
- Unscrew and remove the engine lighting lamp
- Disconnect from the socket
- Replace with an equivalent lamp
- Re-install the engine lighting lamp by screwing

Replacement of the Rear Plate Lamp

- Remove the lamp by removing the screws
- Disconnect from the socket
- Replace with an equivalent lamp
- Re-install the lamp by screwing

JACKING and TIRE REPLACEMENT

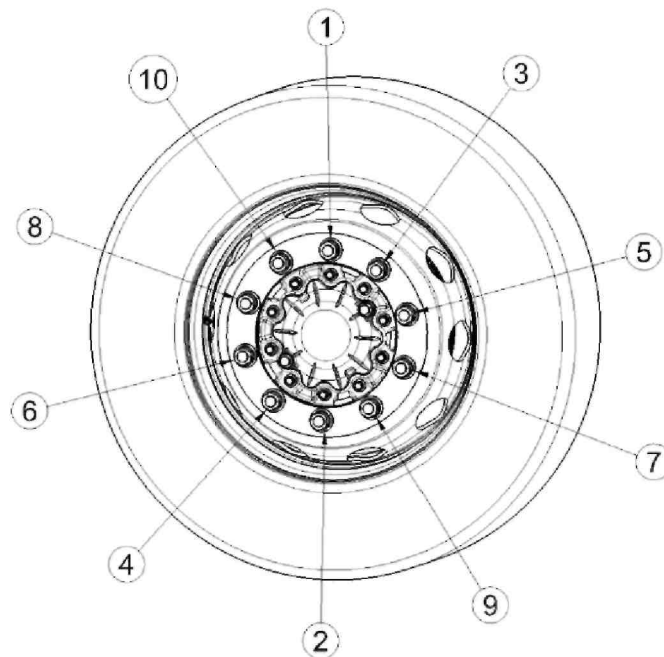
The vehicle's jack points are located behind the front and rear tires on the body.

Using a jack

- Make sure the discharge screw is tight
- Use your own jack lever to lift the jack
- To lower the jack, turn the discharge screw two turns to the left.

Tire replacement

- Place a wedge under the wheel opposite and across the tire you will lift
- Loosen the wheel nuts on the side of the tire to be replaced, but do not remove them
- Jack up the vehicle from the point of the jack behind the tire to be changed until the state where the tire will be completely lifted from the ground
- Remove the wheel bolts and remove the tire
- Install the spare tire
- Take the gap of the wheel nuts and fit the wheel
- Tighten the wheel nuts crosswise and with a torque of 600 +/- 60 Nm in three steps



- Lower the vehicle by loosening the relief screw of the jack slightly.



Make sure that the jack is placed on a level and solid surface. Do not run the engine while the vehicle is on the jack. Do not go under the vehicle when using the jack. When changing tires, get the passengers out of the vehicle, make sure the vehicle is parked, pull the parking brake and open the hazard lights.

NOTE : If the tire pressure is constantly falling, there may be an object stuck to the tire. It should be checked whether there is an air leakage from the rim or from the valve.

PERIODICAL MAINTENANCES

DAILY MAINTENANCE

- Check the tires
- Check operation of the brakes
- Check engine coolant level
- Check the engine oil level
- Discharge the water condensed in the air tanks especially in the winter
- Check the diesel exhaust emission liquid level
- Check if the exterior lighting lamps are suitable for a safe drive
- Check the air intake hoses, exhaust pipes and belts
- Check the fan system for hydraulic leakages
- Drain the water of the air tanks
- Discharge the water that accumulates in the fuel water separator

WEEKLY MAINTENANCE

- Check the tire pressures with the air meter
- Check the power steering fluid tank level
- Check the air suspension bellows (hole, damage etc.) while the engine is running
- Check the air filter for contamination
- Check the level of the glass wash water.

PERIODIC MAINTENANCE TABLE

The main periodic maintenance interval of the vehicle is 15,000 km. The procedures to be performed at every 15,000 km is on the periodic maintenance table.

A: Adjust
 R: Replace
 G: Grease
 C: Checking, cleaning, correcting if necessary

Maintenance Interval ("1000 km)	15	30	45	60	75	90	105	120	135	150	165	180	195	76
ENGINE														
Engine Malfunctions Diagnostics Check	C	C	C	C	C	C	C	C	C	C	C	C	C	
Engine oil	C	R (or 1 year)	C	R (or 1 year)	C	R (or 1 year)	C	R (or 1 year)	C	R (or 1 year)	C	R (or 1 year)	C	
Engine oil supplement (OPTIONAL)	C	R (or 1 year)	C	R (or 1 year)	C	R (or 1 year)	C	R (or 1 year)	C	R (or 1 year)	C	R (or 1 year)	C	
Valve clearance adjustment						A			A			A		
Oil Filter	C	R	C	R	C	R	C	R	C	R	C	R	C	
Fuel Filter	C	R	C	R	C	R	C	R	C	R	C	R	C	
Fuel water separator filter	C	R	C	R	C	R	C	R	C	R	C	R	C	
Fuel water separator filter water level							weekly							
Air filter element	C	R	C	R	C	R	C	R	C	R	C	R	C	
Fuel tubes and hoses	C	C	C	C	C	C	C	C	C	C	C	C	C	
Cooling system leakage check	C	C	C	C	C	C	C	C	C	C	C	C	C	
Hydrostatic fan drive system oil	C	C	C	C	C	C	R (or 1 year)	C	C	C	C	C	C	
Replacement of the oil filter of the hydrostatic fan drive system (together with the replacement of the oil)			R			R			R			R		
Inspection of hydrostatic fan drive oil level, inspection for leaks and functioning	C	C	C	C	C	C	C	C	C	C	C	C	C	
DEF system leakage check	C	C	C	C	C	C	C	C	C	C	C	C	C	
Urea pump filter		R		R		R		R		R		R		
External cleaning of radiator coils (coolant, air and oil)		C		C		C		C		C		C		
Belt tension and damage	C	C	C	C	C	R	C	C	C	C	C	R	C	
POWER TRAIN														
Lubrication of grease nipples (if no automatic greasing is available)	G	G	G	G	G	G	G	G	G	G	G	G	G	
Adding oil for auto greasing (OPTIONAL)					G					G				
Transmission oil and filter	C	C	C	C	C	C	C	C	C	C	C	R (or 3 year)	C	
Cleaning of transmission ventilation valve		C		C		C		C		C		C		
Inspection of transmission oil leakage	C	C	C	C	C	C	C	C	C	C	C	C	C	
Torque inspection of transmission retaining (connection) bolts		C		C		C		C		C		C		
Front axle shaft pins and bushings	C	C	C	C	C	C	C	C	C	C	C	C	C	
Differential oil	C	C	C	C	C	C	C	D (Hot countries)	C	C	C	R	C	
Rear axle and brake calliper connection bolts	C	C	C	C	C	C	C	C	C	C	C	C	C	
Rear axle ventilation hose	C	C	C	C	C	C	C	C	C	C	C	C	C	
Hydraulic steering oil	C	C	C	C	C	C	C	R (or 2 year)	C	C	C	C	C	
Oil leaks in the power steering system	C	C	C	C	C	C	C	C	C	C	C	C	C	
Hydraulic steering system connections	C	C	C	C	C	C	C	C	C	C	C	C	C	
Hydraulic steering hose	C	C	C	C	C	C	C	C	C	C	C	C	C	
Wheel nuts	C	C	C	C	C	C	C	C	C	C	C	C	C	
Tire air pressure	C	C	C	C	C	C	C	C	C	C	C	C	C	
Tire hub bearing	C	C	C	C	C	C	C	C	C	C	C	C	C	

Maintenance Interval (x1000km)	15	30	45	60	75	90	105	120	135	150	165	180	195
BRAKES AND SUSPENSION													
Brake pipe and hoses, leakages	C	C	C	C	C	C	C	C	C	C	C	C	C
Visual inspection of the brake lining and the disc	C	C	C	C	C	C	C	C	C	C	C	C	C
Looseness in the shock absorbers and fasteners	C	C	C	C	C	C	C	C	C	C	C	C	C
Strokes of brake, accelerator and clutch pedals	C	C	C	C	C	C	C	C	C	C	C	C	C
ECAS settings and air bellows	C	C	C	C	C	C	C	C	C	C	C	C	C
ELECTRICAL EQUIPMENT													
Inspection of headlight, turn, parking, fog and brake lamps	C	C	C	C	C	C	C	C	C	C	C	C	C
Inspection of internal illumination	C	C	C	C	C	C	C	C	C	C	C	C	C
Inspection of the functioning of wiper and washing system	C	C	C	C	C	C	C	C	C	C	C	C	C
General inspection of wirings and connectors in the fuse panel	C	C	C	C	C	C	C	C	C	C	C	C	C
Battery connection cables	C	C	C	C	C	C	C	C	C	C	C	C	C
Concentration of the battery electrolyte	C	C	C	C	C	C	C	C	C	C	C	C	C
Starter electrical connections			C			C			C			C	
CHASSIS AND BODY													
Pneumatic door setting	C	C	C	C	C	C	C	C	C	C	C	C	C
Inspection of the functioning of the safety mechanism of all doors	C	C	C	C	C	C	C	C	C	C	C	C	C
Inspection for air leaks, damage, tightness and door function of the door elements	C	C	C	C	C	C	C	C	C	C	C	C	C
Inspection of the connecting parts of the rearview mirrors (including mirror heating system)	C	C	C	C	C	C	C	C	C	C	C	C	C
Inspection against corrosion on the chassis and body parts			C			C			C			C	
HEATING AND COOLING SYSTEM													
Replacement of auxiliary heater fuel filter (replace earlier when required) (OPTIONAL)		R		R		R		R		R		R	
Air conditioner compressor oil						every 5000 hours or 3 years							
Air conditioning refrigerant and oil						every 4000 hours or 2 years							

The filters of the heaters shall be cleaned every 6 months. A/C air intake filters shall be cleaned every 6 months and replaced with a new filter annually.

The antifreeze should be replaced once a year.

For fire extinguishing system; the extinguishing fluid must be replaced every 5 years, and the tanks must be replaced every 10 years.

Hot country description for axle oil replacement:

The average temperature for two months during the year exceeds 25°C or the temperature exceeds 40°C for 7 days during the year

The cooling tank should be cleaned at every maintenance or every 30,000 km.

*** The periodic maintenance table is prepared for 195,000 km. The maintenance operations after 195,000 km is the same as the maintenance periods starting from 15000 km.

6. TECHNICAL INFORMATION

VEHICLE LENGTH	12030 mm
VEHICLE WIDTH	2550 mm
VEHICLE HEIGHT	3136 mm
MAX. SPEED	90 km/h
ENGINE	
Model	CUMMINS ISB6.7e5 300B
Max. Power	289 HP / 2300 rpm
Max. Torque	1087 Nm /1285 rpm
Volume	6700 cc
Number of cylinders	6
Transmission	ZF 6AP1200 Ecolife (Automatic)
Number of gears	6+1
AXLES	
Front axle	ZF RL82EC
Front axle capacity	8200 kg
Rear axle	ZF AV 132/80
Rear axle capacity	13000 kg
SUSPENSION	Electric Controlled Active Suspension (ECAS)
Front	2 Air bellows, 2 shock absorbers, 1 level sensor
Rear	4 Air bellows, 4 shock absorbers, 2 level sensors
BRAKES	Full air, double circuit, electronically controlled, front and rear disc brakes
PARKING BRAKE	Spring loaded acting on rear axle
FUEL TANK	300 L
DEF TANKI	47 L
AIR COMPRESSOR VOLUME	460 (Knorr)
A/C CAPACITY	39 KW KONVEKTA
TIRE TYPE	275/70 R22.5
ALTERNATOR	2 x 90 A
ACCUMULATOR	2x12V 240 Ah
MAX. CLIMBING	28%
TURN RADIUS	10900 mm

NOTE : The stated technical values are approximate values and may vary depending on the vehicle type and options.

PRESSURE VALUES		
Four Way Protective Valve	Static Closing Pressure	> 5.5 Bars
Air Dryer	Minimum Opening Pressure	8.1 bar
Air Dryer	Maximum Closing Pressure	10.45 bar
Tires	Cold Heading Pressure	9 bar/131 psi

LIQUID SPECIFICATIONS

DESCRIPTION	CAPACITY	NORM	CLASS
Engine Oil	17 lt	SAE 15W 40	API CH-4/SJ, ACEA E-5, E-7, CES-20076,
Engine Oil Supplement (OPTION)	6 lt	SAE 15W 40	API CH-4/SJ, ACEA E-5, E-7, CES-20076,
Transmission Oil and Filter	24 l (38 litres in the first filling)	TE-ML20.105	20E/20F according to TE-ML 20.105
Differential oil & Rear axle	16.5	SAE80W 90, 80W-HO, 80W-140	ZFTE-ML12-EcofluidX, 12M
Differential oil & Rear axle	16.5	SAE80W 90, 80W-110, 80W-140	ZFTE-ML12-EcofluidX, 12M
Front Suspension Greasing		KP2K-20 and grades above as per DIN51825, ISO-L-XBCEB2 and grades above as per ISO 6743-9	ZFTE-ML12G+
Steering hydraulic oil	8	GMDexron-III	AUTRANDXIII
Hydrostatic fan oil	9.5	GMDexron-III	AUTRANDXIII
A/C compressor oil	2 l	DIN 51 503: KD, KE	FUCHS Reniso Triton SE 55
Antifreeze (50%) + Water (50%)	60 l	ASTMD6210+	CUMMINS FLEETGUARD COMPLEAT
Air conditioning refrigerant and oil	11 kg	1,1,1,2-Tetrafluoroethane (Refrigerant R134a)	Linde

7.AUTHORIZED SERVICES

CITY	SERVICE	PHONE	ROAD ASSISTANCE
ADANA	GARANTİLİ-İŞ OTO SERVİS Şakirpaşa Mah. T.Cemal Beriker Blv. No:203 Seyhan	0(322)435 32 17	0(532)798 14 50
ADIYAMAN	ULUM KUYUMCULUK OTOMOTİV Küçük Sanayi Sitesi 11. Blok No:9	0 (416) 223 18 14	0 (542) 601 06 02
AFYONKARAHİSAR	GÜVENİR OTOMOTİV Yeni Sanayi Sit. 4 Blok No:7 Bolvadin	0 (272) 611 22 04	0 (532) 788 00 92
AFYONKARAHİSAR	BACAĞOĞLU OTOMOTİV Yenice Mah. 114 Sk. No:20 Merkez	0(272)223 10 98	0 (544) 498 87 68
AKSARAY	OTO CEYLAN TAMİR BAKIM Yeni Sanayi Sit. 19. Blok No:25	0(382)215 15 50	0(532)515 35 98
AMASYA	ÜÇAY OTOMOTİV Yeni Sanayi Sitesi B-5 Blok No:6	0 (358) 232 44 86	0 (532) 483 09 31
ANKARA	MADEN MOTORLU ARAÇLAR İst. Yolu Oto Sanayi Sit. 30 Sk. No:31	0 (312) 278 16 08	0 (532) 327 33 91
ANKARA	GENÇLER GRUP SERVİS Mevlana Blv. No: 183/1 Balgat	0 (312) 583 33 43	0(533)501 85 16
ANKARA	ARDIÇLAR OTOMOTİV Bahçekapı Mah. 2510 Sk. No: 11	0 (312) 278 36 60	0 (534) 738 40 40
ANTALYA	ÇEKİÇOĞLU OTOMOTİV Cumhuriyet Mah. Yeni Azak San. Sit. No:59 Alanya	0(242)515 09 59	0 (532) 277 04 91
ANTALYA	ESAY OTOMOTİV Unsal Mah. Akdeniz San. Sit. 5041 Sk. No:64-65 Kepez	0 (242) 462 26 91	-
ANTALYA	ESAY OTOMOTİV Cihadiye Köyü girişi, havaalanı karşısı	0(242)462 15 48	0 (533) 430 09 91
ARTVİN	KESKİN KARDEŞLER OTO Sanayi Sitesi E Blok No:9	0(466)212 61 00	0 (532) 514 83 01
AYDIN	OTO MERT ISUZU Ata Mah. Alt San. 615 Sk. No:10	0(256)211 32 95	0 (532) 407 26 50
AYDIN	ÇELEN OTOMOTİV Yeni Sanayi Sitesi D.1 Blok 507 Sk. No:17 Nazilli	0(256)316 24 24	0(532)514 41 18
BALIKESİR	EFELEK OTO Yeni San. Sit. 19 Ağustos Cad. No: 100	0 (266) 246 11 00	0 (532) 302 57 60
BALIKESİR	EKEN MOTORLU ARAÇLAR Balıkesir asfaltı, Gross Market karşısı Bandırma	0 (266) 721 21 71	0 (542) 247 88 58
BARTIN	GÜN OTO Yeni Sanayi Sitesi 128. Sokak No:6	0 (378) 227 11 60	0 (532) 271 29 90
BARTIN	ÖZTÜRK DİZEL Yeni Sanayi Sitesi 4. Cad. No:31	0 (378) 227 71 32	0(532)562 12 37
BATMAN	ÖZ ALKAN OTOMOTİV Yeni Sanayi Sitesi A2 Blok No: 15	0(488)218 01 38	0 (542) 567 35 97
BOLU	BOLU YILMAZ OTOMOTİV E-5 Karayolu Kuruçay Mevkii Jandarma yanı	0 (374) 245 12 04	0(533)719 41 42
BURDUR	YENİ ÇÖZÜM OTOMOTİV Yeni Sanayi Sitesi 17 Sk. No: 4	0 (248) 252 85 50	0 (535) 926 82 26

You may access current service stations and spare parts procurement locations from the address below.
<https://www.servis.gov.tr>

PROVINCE	SERVICE	PHONE	ROAD ASSISTANCE
BURSA	BURSA AĞIR VASITA Ovaakça Eğitim Mah. Yeni Yalova Yolu Cad. No:752 Osmangazi	0 (224) 999 40 00	0 (530) 353 86 00
BURSA	AAD MARMARA MOTORLU ARAÇLAR Küçük Balıklı Mah. Fevzi Bey Cad. No:47/A Osmangazi	0(224)341 19 90	-
BURSA	GEYİK DİZEL Küçük San. Sit. Ersan Sk. No:8 Nilüfer	0 (224) 441 05 75	0 (535) 626 05 63
ÇANAKKALE	DEDEOĞLU DİZEL Sanayi Sitesi 5. Blok No:22 Biga	0(286)316 23 52	0 (532) 292 24 57
ÇANKIRI	DOĞAN OTO Küçük Sanayi Sitesi D9 Blok No:2	0(376)218 10 22	0(533)310 15 55
ÇORUM	ÇETİNLER MOTORLU ARAÇLAR Küçük Sanayi sitesi 17. Cad. No:33	0 (364) 235 02 74	0 (532) 724 48 40
DENİZLİ	UZUN OTOMOTİV Deliktaş Mah. Fevzi Çakmak Blv. 2000 Sk. No:1	0 (258) 264 41 51	0 (533) 308 50 28
DENİZLİ	EGE OTOMOTİV Sümer Mah. 3 San. Sit. 24. Sk. No: 47	0 (258) 251 23 93	0(532)314 00 16
DİYARBAKIR	TUNÇBİLEK OTOMOTİV Urfa yolu 6. km 3. San. Sit. 1 Blok No:1 Kayapınar	0 (412) 255 09 65	0 (533) 293 95 70
DİYARBAKIR	K-TUNÇ HAYAT OTOMOTİV Urfa yolu 3. Km 3. San. Sit. 0/1 Blok No:29-30 Kayapınar	0 (412) 255 00 34	-
DİYARBAKIR	ODABAŞI BAL OTOMOTİV Şanlıurfa yolu 4. km	0 (412) 255 12 01	0 (546) 968 98 85
DÜZCE	ÖZÇELİK KARDEŞLER OTOMOTİV SS Düzce Küçük San. Sit. F1 Blok No:5	0 (380) 537 51 39	0 (532) 514 83 02
EDİRNE	H-EGE OTOMOTİV Büyük Cami Mah. Çırak Sk. No:1	0(284)715 00 22	-
EDİRNE	GÜÇLÜ DİZEL Yeni Sanayi Sitesi 10. Blok No:6	0 (284) 235 80 51	0(533)216 26 15
ELAZIĞ	ALPAYLAR OTOMOTİV Sanayi Sitesi Sanayi Cad. No: 88	0 (424) 224 64 49	0 (532) 705 82 93
ERZİNCAN	ERİMSAN OTOMOTİV Yeni Sanayi Sitesi 9 Sk. No: 7	0 (446) 226 02 78	0 (532) 681 95 96
ERZURUM	SÖNMEZLER OTOMOTİV Tortum Yolu No:20 Isuzu Plaza	0(442)242 74 17	0 (532) 277 68 11
ESKİŞEHİR	NUR-İŞ OTOMOTİV Sanayi Çarşısı 2. Oto Tamir Sk. No: 18	0(222)237 22 18	0 (533) 230 74 06
ESKİŞEHİR	ÖZELLER DİZEL Sanayi Çarşısı Türker Sk. No: 35	0(222)237 49 12	0(532)514 41 29
GAZİANTEP	METİN DİZEL Küçük San. Sit. B Blok 3. Cad. No: 111	0 (342) 235 12 09	0(532)514 65 54
GAZİANTEP	ÖZDİCLE S. Konukoğlu Blv. Örnek Sanayi Sitesi girişi Şehitkamil	0 (342) 235 60 61	0 (544) 392 43 00
GİRESUN	SALMAN OTOMOTİV Sanayi Sitesi 3. Blok No:21	0 (454) 225 60 91	0 (532) 302 57 65

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PROVINCE	SERVICE	PHONE	ROAD ASSISTANCE
HATAY	ISUZU ALİ DİKMUŞLU Yeni San. Sit. 323/1 Sk. No:15 İskenderun	0(326)615 27 96	0 (532) 596 02 52
HATAY	ÖZTOPRAK OTOMOTİV İskenderun Yolu Odabaşı Beldesi Türk Telekom binası yanı 2. km	0 (326) 221 44 36	0 (532) 324 46 48
ISPARTA	KONYALILAR ISUZU Gül Sanayi Sitesi F Blok No:3	0 (246) 224 21 42	0 (533) 456 20 94
İSTANBUL	ÇELİK DİZEL Kocayol Cad. H.Çelik Sk. No:5 Bostancı	0 (216) 361 86 00	0(532)514 41 30
İSTANBUL	ANOTO SERVİS Cumhuriyet Mah. Lütfi Aykoç Cad. No:3 Gaziosmanpaşa	0 (212) 475 34 67	0 (532) 514 83 04
İSTANBUL	ÇETAŞ TİCARİ VASİTA İnönü Cad. No:115 Mahmutbey	0 (212) 445 33 80	0(533)712 47 46
İSTANBUL	GERÇEK OTOMOTİV Topselvi Mah. No:98 Kartal	0 (216) 306 39 56	0 (532) 514 83 06
İSTANBUL	GÖRKEM MOTORLU ARAÇLAR Akşemsettin Mah. Adem Sk. No:43-1 Sultanbeyli	0 (216) 540 90 90	0(532)514 65 53
İSTANBUL	OTO NİL Firüzköy Mah. Firüzköy Blv. No:98 Avcılar	0(212)428 03 13	0 (532) 763 86 46
İSTANBUL	AYKA OTOMOTİV Beylikdüzü Sanayi Sitesi No:111-116 Büyükçekmece	0(212)872 19 68	0 (532) 392 36 44
İSTANBUL	MEKANİK OTO Mithatpaşa Cad. Şahmerdan Sk. No:18 Yenibosna	0 (212) 503 36 98	0(532)522 13 59
İZMİR	OTO ÇAĞLAR 615/6 Sk. No:6/1 Çamdibi	0(232)459 43 18	0(535)415 06 77
İZMİR	TEKPAR YEDEK PARÇA Ulukent Sanayi Bölgesi 29 Ekim Mah. 10006 Sk. No:3/1 Ulukent	0 (232) 486 09 80	0(532)618 35 64
İZMİR	OTO UĞUR 1 San. Sit. Ön Blok No:81 Bergama	0 (232) 633 20 42	0(532)514 65 57
İZMİR	ERDİLOĞLU OTOMOTİV Kemalpaşa Cad. No:2 Pınarbaşı	0 (232) 478 23 23	0 (530) 664 70 62
İZMİR	CELİ KAL DİZEL Sanayi Sitesi 514/1 Sk. No:22-24 Gaziemir	0 (232) 282 01 07	0 (532) 282 49 61
İZMİR	İKİLER DİZEL Sanayi Sitesi C Blok No:1	0 (232) 892 50 58	0(532)562 12 34
KAHRAMANMARAŞ	YÜREKLİ OTOMOTİV Yeni Sanayi Sitesi 30 Çarşı No:28/A	0 (344) 236 26 96	0 (532) 748 85 53
KAHRAMANMARAŞ	GENÇ DİZEL ISUZU Yeni Sanayi Sit. Profilciler Cad. No: 19	0 (344) 236 16 52	0 (535) 585 70 44
KARABÜK	OTO ŞEN Küçük Sanayi Sitesi 17. Blok No:4	0 (370) 442 20 48	0 (542) 245 08 77
KARAMAN	ÖZEN-İŞ OTO SERVİS Yeni Sanayi Sitesi 735. Sk. No: 3	0(338)213 56 35	0(532)514 65 69

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PROVINCE	SERVICE	PHONE	ROAD ASSISTANCE
KARS	SÜPER OTO Faikbey Cad. No: 225	0(474)214 31 32	0 (532) 362 22 52
KASTAMONU	HABİPOĞLU OTOMOTİV Yeni Küçük San. Sit. 6. Ada A Blok No:8	0(366)215 18 29	0 (532) 705 82 89
KAYSERİ	NET OTOMOTİV Yeni Sanayi Şeker Kısmı 9. Sk. No: 23	0 (352) 331 40 02	0(532)514 65 63
KAYSERİ	OKURKÖSE OTO SERVİS Yeni Sanayi Sitesi 25. Sk. No: 19	0 (352) 332 05 05	0(532)567 19 12
KAYSERİ	YENİ KARDEŞLER OTOMOTİV Yeni San. Gazali Cad. 28. Sk. No: 7	0 (352) 331 00 24	0(532)514 65 61
KIRIKKALE	OLGUN OTO ISUZU Yeni San. Sit. 3/C Blok No:6 Yahşihan	0(318)357 23 16	0 (553) 296 38 46
KIRKLARELİ	BATUR OTO Atatürk Mah. Yeni San. Sit. 5 Sk. A/4 Blok No:59/61 Lüleburgaz	0(288)412 41 41	0(549)710 36 60
KIRŞEHİR	KARDEŞLER DİZEL Kılıçözü Sanayi Çarşısı 31. Blok No:3	0 (386) 252 70 39	0 (537) 977 71 02
KOCAELİ	İTİMAT OTOMOTİV S.Orhan Mah. Organize San. Sit. Yolu 1185/1 Sk. No: 12/B Gebze	0(262)644 48 15	0 (507) 259 40 37
KOCAELİ	KIRDUDU OTOMOTİV Sanayi Mah. Fırat Sk. Kuzey kapısı karşısı İzmit	0 (262) 335 12 50	0 (533) 325 62 63
KONYA	ÇELİK OTOMOTİV Ankara Cad. No:158/A Karatay	0 (332) 342 08 00	0 (533) 927 74 66
KONYA	GÜNDÜZ OTOMOTİV Karatay Sanayi Sit. Derince Sk. No: 18	0 (332) 233 33 07	0 (532) 286 41 47
KONYA	ONAT OTO Yeni San. Sit. B Blok No:24 Ereğli	0 (332) 734 57 51	0(532)514 65 51
KONYA	SARI KAYALAR Sanayi Sitesi 13. Blok No: 11 Beyşehir	0(332)512 27 51	0 (542) 670 23 55
KÜTAHYA	KARSEÇ OTOMOTİV Fatih Sanayi Sitesi 41. Sk. No: 19	0 (274) 231 95 89	0 (533) 331 31 41
MALATYA	AYDIN OTO TAMİR Özsan Sanayi Sitesi 5. Blok No:21	0 (422) 238 04 27	0(533)817 28 24
MANİSA	ÇAĞDAŞ OTO K.S.S. 2 Kısım 1823 Ada 119 Sok. No:28-30 Turgutlu	0(236)312 10 67	0(533)213 70 87
MANİSA	YÜKSELİŞ NAKİL VASITALARI Zafer Mah. 676 Sok. No. 13 Salihli	0(236)714 30 89	0 (538) 363 52 52
MANİSA	ÜNALLAR OTOMOTİV K.E.S.S. 75 Yıl Mah. 5313 Sk. No:21A-27A	0 (236) 236 00 32	0 (545) 479 07 24
MARDİN	KAVAK OTO Küçük San. Sit. B Blok No: 11 Nusaybin	0(482)415 44 20	0 (544) 697 32 09
MARDİN	DERLİ DİZEL Küçük San. Sit. 16/A Blok No:266	0(482)215 10 16	0 (532) 695 93 01
MERSİN	İSMER MOTORLU ARAÇLAR Yalınkayak Mah. Turgut Ozal Blv. Soda Hal Cad. No:39 Toroslar	0 (324) 234 16 39	0 (533) 712 67 70

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PROVINCE	SERVICE	TELEPHONE	ROAD ASSISTANCE
MERSİN	ÖZTOPRAKLAR GMK Blv. Seymenli Mah. No:1009 Mezitli	0(324)48135 34	0(535) 108 37 84
MUĞLA	ŞAHİN-SA OTOMOTİV Orhaniye Mah. San. Sit. 126 Sk. No:40	0(252)214 52 62	0 (532) 764 64 76
MUĞLA	ŞAHİN-SA OTOMOTİV Taşyaka Mah. Sanayi Sitesi 254. Sk. No: 107 Fethiye	0 (252) 611 05 35	0(532)656 58 13
MUĞLA	OTO SİTE TİCARET Konacık San. Sit. B Blok No: 16 Konacık	0(252)363 03 18	0 (542) 894 64 94
MUŞ	GÜVENSOY OTOMOTİV Yeni Sanayi Sitesi A Blok No:6/7	0(436)215 19 29	0 (532) 678 43 58
NEVŞEHİR	TEKNİKELLER OTOMOTİV Lale Sanayi Sitesi 4. Blok No: 14	0(384)213 24 14	0 (532) 276 42 30
NİĞDE	KIRIM OTO Ata Sanayi Sitesi 22. Blok No:5-6	0(388)213 82 90	0(542)314 73 11
ORDU	ÖZLER DİZEL SERVİS 2 Sanayi Sitesi 13. Blok No: 17	0 (452) 233 68 57	0(532)613 31 50
ORDU	KARTALLAR YEDEK PARÇA Yüceler Mevki 8. km Ünye	0 (452) 346 38 99	0 (532) 407 26 54
OSMANİYE	ÜÇ KARDEŞLER OTOMOTİV Y.Beyazıt Mah. Musa Şahin Blv. No: 71	0(328)812 76 18	0(532)515 35 64
RİZE	OTO İTİMAT Sanayi Sitesi No:90 Engindere	0 (464) 226 01 11	0 (507) 839 48 35
SAKARYA	GENÇ KARDEŞLER OTO Erenler Mah. 266 Sk. No:1 Adapazarı	0 (264) 275 02 56	0(532)588 21 83
SAMSUN	OTO FENLER Bayraktar Cad. No:7 Kutlukent	0 (362) 266 78 41	0 (542) 383 08 04
SAMSUN	FLK MOTORLU ARAÇLAR OTOMOTİV Atatürk Bulvarı No: 100 Tekkeköy	0 (362) 266 55 35	0 (544) 590 51 69
SİİRT	BİLİM OTOMOTİV Evren Mah. Kurtalan yolu No: 4	0 (484) 224 88 81	0 (546) 402 56 56
SİVAS	DOĞUSAN OTO 4 Eylül Sanayi Sitesi 13A Blok No:4	0 (346) 226 42 62	0(535)587 10 75
ŞANLIURFA	HATAYLI KARDEŞLER OTOMOTİV Evren San. Sit. 10. Blok 1. Cad. No:57	0(414)357 61 54	0 (533) 635 01 82
ŞANLIURFA	ŞANLI KARDEŞLER OTOMOTİV Evren Sanayi Sit. 2 Cad. 16. Sk. No: 20	0 (414) 357 58 74	0 (535) 462 53 51
ŞIRNAK	SEVEN ELEKTRONİK Küçük Sanayi Sitesi F Blok No:55-56	0(486)221 10 20	0(532)283 13 09
TEKİRDAĞ	AKSU OTOMOTİV Yeni Sanayi Sitesi M-6 Blok No:5	0(282)673 28 15	0 (532) 296 03 89
TEKİRDAĞ	SİGORTAM OTOMOTİV 100 Yıl Mah. K.Sultan Süleyman Blv. No:67 Süleymanpaşa	0 (282) 262 01 04	0 (533) 300 04 55
TOKAT	ULU HAN OTO Sanayi Sitesi 17. Blok No: 11	0(356)214 04 75	0 (544) 504 87 33
TRABZON	JAPON İŞ Bağkur Sanayi Sitesi Kabir Sk. No: 4	0 (462) 325 07 50	0 (532) 623 28 92

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PROVINCE	SERVICE	PHONE	ROAD ASSISTANCE
UŞAK	ÇALIK OTO Fevzi Çakmak Mah. Seval Sk. No:11/A	0(276)231 10 03	0(532)317 45 31
VAN	KARDEŞLER OTO Sanayi Sitesi B5 Blok No:7	0 (432) 223 16 20	0 (542) 634 45 41
YOZGAT	BÖLÜKBAŞI OTOMOTİV Yeni Sanayi Sitesi karşısı Sorgun	0(354)415 11 45	0 (532) 443 43 28
ZONGULDAK	ÖZERLER OTOMOTİV Sahil Bulvarı No:7 Ereğli	0(372)318 12 00	0 (546) 631 35 80
ZONGULDAK	SELİMLER OTOMOTİV Üzülmaz Cad. 69 Ambarları No:8	0 (372) 268 11 11	0 (532) 724 48 38

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