

# TS 35

## Warranty and Maintenance Manual

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9034-344Y  
RPPB7L2 REV.00

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08.04.2025





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## General Information

Your TEMSA SKODA SABANCI vehicle is manufactured in accordance with the cutting edge and state-of-the-art automotive manufacturing techniques and in line with most advanced quality control methods.

The maintenance services described in this book must be carried out by an authorized TEMSA SKODA SABANCI maintenance station to keep your vehicle's performance in the highest standards.

In order to receive maintenance services under TEMSA SKODA SABANCI warranty, the Vehicle Registration Card and the Warranty Form must be filled by the authorized dealer you receive your vehicle.

# TEMSA SKODA SABANCI

## INFORMATION OF PRODUCERS OR IMPORTERS

**Title** : TEMSA ULAŞIM ARAÇLARI SANAYİ VE TİCARET A.Ş.  
**Address** : SARIHAMZALI MAHALLESİ, TURHAN CEMAL BERİKER BULVARI, NO : 563/A  
01110 SEYHAN ADANA, TÜRKİYE

**Telephone** : +90 322 441 02 26  
**Telefax** : +90 322 441 08 74

## COMPANY OFFICER'S

**Signature and Stamp:**



## DETAILS OF THE PRODUCT

**Type** :  
**Brand** :  
**Model** :  
**Bandrol ve seri no** :  
**Tax label and serial No.:**  
**Maximum Repair Period:**  
**Warranty Period** : SPECIFIED IN THE WARRANTY TERMS

## SELLER COMPANY

**Title** :  
**Address** :  
**Phone** :  
**Invoice Date and No** :



## TEMSA SKODA SABANCI

### CUSTOMER DETAILS

Company's trade name :.....  
Name-Surname :.....  
Correspondence Address :.....

Telephone Number :.....  
(Workplace)  
Telephone Number (House) :.....  
Fax Number :.....  
Mobile Phone Number :.....  
E-mail Address :.....  
Date of Birth :.....

### VEHICLE DETAILS

Model :.....  
Chassis No :.....  
Engine No :.....  
Selling Date :.....  
Invoice No. :.....  
Licensing Plate No. :.....

### SELLER DETAILS

Title :.....  
Date :...../...../.....

[SIGNATURE & STAMP]  
(Authorized Dealer)

[SIGNATURE & STAMP]  
(Customer)

This form must be kept for 10 years starting with the selling date and the sale data must be entered in the TEMSA SKODA SABANCI DMS system.

## TEMSA Retail Delivery Advice

\*This form should be sent by dealer in 7 days time after delivery to end user\*

Date :

### Customer

Name & Surname : ..... Country: .....  
Gender : ..... Driver's license: ..... Who will be the main driver of the vehicle? .....  
Occupation : ..... Date of birth: ..... / ..... / .....  
Company : .....  
Address (customer) : ..... Zip: .....

Phone & Mobile : .....

E-mail: ..... / .....

### Other Owner

Other owner : ..... Country: .....  
Address (customer) : ..... Zip: .....  
Phone & Mobile : ..... E-mail: .....  
Gender : ..... Driver's license: ..... Date of birth: ..... / ..... / .....

### Vehicle

V.I.N.  Odometer: .....  
Equipment Code : ..... Manufacturer: .....  
Model : ..... Type: ☐ Coach ☐ Midibus  
Engine Serial : .....  
Rego no : ..... (if any) Registration Date: .....

Type of Use : ☐ City ☐ Intercity ☐ Touring  
City - Severe Conditions (Average Velocity: V<20 mi/h) / Intercity - Medium Condition (Average Velocity : 20<V<40 mi/h) / Touring - Light Condition (Average Velocity : V>40 mi/h)

### Warranty Conditions

Warranty Conditions : .....year(s) .....mile(s)  
Sales Contract Date : .....

### Delivery Inspection

- ☐ Fill in Warranty Certificate and deliver to the customer ☐ Check the invoice, packing list, CE conformity documents  
☐ Control of engine coolant, antifreeze, oil levels and connectors ☐ Visual check of interior, exterior and lodging appearance  
☐ Control of gauges & instrument panel, tachometer, audio & DVD systems, electronic control units, air conditioning controls  
☐ Availability of tool box, set of tools, documentation case, ...etc. ☐ Control of operating functions  
☐ Compliance requested and ordered specifications, modifications and design.  
☐ Road performance approval by customer after test ☐ Compliance with road homologation requirements. (if any)

### After Sales Service Instruction

- ☐ Warranty booklet, user guide, other warranty certificates ☐ Advising about warranty instructions & procedure given.

### Comments

NOTE: The vehicle specified in this document was delivered by th customer / representative in a proper working condition without any missing & failed parts after all delivery checks had been made, Vehicle complies fully my requests and orders.

Copy 1 : TEMSA copy





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## MINISTRY OF CUSTOMS AND TRADE WARRANTY CARD REGULATION

The warranty specification is valid from the date cited on the invoice for the product.

Contractor is liable to repair the item or cause it to be repaired without demanding any cost under the description of the cost of labour, cost of replaced part, whatsoever, in case of a failure of the item due to faults in material and labour as well as assembly within the warranty period.

Warranty period of the item replaced during warranty application is limited by the remaining warranty period of the purchased item.

In case of any dispute to arise with regard to the certificate of warranty, Directorate-General of Protection of Consumers and Competition of the Ministry of Industry and Commerce may be applied.

The consumer is required to inform the producer or the importer of the product by letter or by telephone any disputes with the maintenance station about the maintenance service.

The complete and ratified warranty card must be submitted for all warranty applications.

It is the vehicle owner's responsibility to bring the defective vehicle to a maintenance service atelier within the period of the warranty.

## TEMSA SKODA SABANCI WARRANTY SPECIFICATIONS

### (For Vehicles Purchased and Used For Commercial and Occupational Purposes)

1. The Warranty Period for this vehicle is [2 years or 200,000 miles, as shown on the vehicle's odometer, whichever occurs first. Emission-related warranty periods for the engine and aftertreatment system, the wheels and tires, and the air conditioning system are defined in the accompanying TEMSA Emission-Related Warranty on page 43 below.]
2. The product as a whole, including all of its components, is under warranty.
3. The warranty includes the change of the part which is accepted to be faulty and able to function again when repaired in accordance with the method approved by the producer and the workmanship required to carry out such repairs.
4. Warranty period of the item replaced during warranty application is limited by the remaining warranty period of the purchased item.
5. It is compulsory to have the first maintenance and the subsequent maintenance carried out according to the standards set forth by TEMSA SKODA SABANCI for the vehicle's warranty to be valid.
6. Limitation on Transfer: This warranty extends only to the first retail-purchaser and may not be transferred to a subsequent owner without TEMSA's express, written consent.

The Temsa emission-related warranty, however, extends to the first retail-purchaser and to all subsequent owners as described in the Temsa Emission-Related Warranty as described on page 43 below.

7. Product Changes: TEMSA reserves the right to change, modify, and improve any aspect of its products at any time and without coming under any obligation to change, modify, or improve vehicles already in service.
8. Arbitration in Lieu of Litigation: Any and all disputes arising under this warranty shall be resolved through binding arbitration under the auspices of the [American Arbitration Association, [indicate city and state of AAA office] or other provider of alternative dispute resolution services] and shall be resolved by application of the law of the State of xxxxxx
9. Period for Commencing Arbitration Proceeding: Any arbitration proceeding for breach of this warranty must be brought within one-year after the date on which the cause of action accrues or this Warranty expires, whichever is sooner.



**WARNING!**

Maintenance checklist content is regularly updated in line with technical developments. Therefore, only the current maintenance checklists should be considered during maintenance work.

You can find up-to-date maintenance information under the 'Maintenance Packages' section by entering the vehicle chassis number (VIN) on the Temsa Portal.

<https://online.temsa.com/login.html>

You can quickly access Temsa Portal without having to enter the chassis number by scanning the QR tag code on the lower right corner of your vehicle's windscreen with your mobile device.



\* Since the general warranty terms stated above may vary depending on the sales contract, therefore the warranty terms in the Sales Contract must be taken as a reference.



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## THE TEMSA SKODA SABANCI WARRANTY DOES NOT INCLUDE THE FOLLOWING

1. Malfunctions caused by usage in violation of the particularities in this manual and/or violating the instructions listed in this manual.
2. Overloading the vehicle in violation of the carrying capacity specified in this manual, carriage of excessive passengers or load, pulling other vehicles or trailers, malfunctions resulting from such uses.
3. Performing periodic maintenance (daily maintenance, periodic maintenance, periodic parts replacement, etc.) specified in the warranty and maintenance manual at maintenance stations that do not comply with the standards set by TEMSA SKODA SABANCI.
4. Malfunctions stemming from maintenance, settings and repairs that do not comply with the standards set forth by TEMSA SKODA SABANCI ULAŞIM ARAÇLARI A.Ş.
5. Modifications not recommended by TEMSA SKODA SABANCI ULAŞIM ARAÇLARI A.Ş. (changing the engine's functional parameters, connecting devices to the CANbus (Controller Area Network) of the vehicle, connecting devices to the OBD port while driving, tampering with the battery.
6. Abuse of the vehicle, poor road conditions, battery cell damage caused by keeping the vehicle in a lot without charging for 30 days, situations caused by neglect, accidents, external factors, natural disasters (earthquakes, fires, floods).
7. Malfunctions caused by usage of spare parts and accessories that are not original products or oils, hydraulic fluids and miscellaneous liquids other than those recommended.
8. Components that are worn out by normal usage and need to be replaced such as belts, filters, brake pads, clutch press, linings and ball bearings, oils, fluids, bulbs and similar components and components that are directly subject to road conditions such as shock absorbers, scissor bushing and tire assembly, and settings that break down as the vehicle is used such as the front setup, the wheel balance, valve settings, brake settings, etc. and resulting workmanship and supply expenses.
9. Damage sustained by the bodywork, the paint, windows, and similar components caused by external factors (bouncing stones, traffic accidents, scratches, weather damage, chemical contamination caused by the environment where the vehicle is used, metal dust, bird droppings and rust-causing substances transported with the vehicle, etc.)
10. In cases of malfunction of the tires, the accumulator, the radio, the water pump, the battery and similar components, the warranty is applied according to reports issued by the producer, the dealer or the maintenance station after examination.
11. Warranty is voided if the registry numbers such as chassis number and engine number, plates and labels and/or the battery set of the vehicle is changed with that of another vehicle after it is released out of the factory.





## TEMSA SKODA SABANCI WARRANTY CERTIFICATE

TEMSA SKODA SABANCI ULAŞIM ARAÇLARI A.Ş. (hereinafter referred to as 'TEMSA SKODA SABANCI') warrants each new VEHICLE to be free from faults in material and workmanship, subject to the conditions and limitations set forth here in.

### 1. Warranty Period

The warranty period is limited with the years or the kms of operation whichever occurs first. Considered from the warranty commencement date of delivery to the customer, which is mentioned in front on the Retail Delivery Advice Form OR with the date of First Registration, which of them starts earlier.

### 2. Warranty Coverage

Within the warranty period, the Authorized Dealer/Distributor of TEMSA SKODA SABANCI will repair or replace at its option, free of charge, any part or parts of the machine under warranty which are found by TEMSA SKODA SABANCI to be defective in material and/or workmanship. For some cases that are mentioned below in Article 3, Limitations of Liability, TEMSA SKODA SABANCI does not take responsibility for warranty. (If required, the parts replaced must be returned to TEMSA SKODA SABANCI's factory).

### 3. Limitations of Liability

TEMSA SKODA SABANCI shall not be liable for or in the respect of:

- 3.1. Components purchased by TEMSA SKODA SABANCI, and installed in a vehicle, beyond or in addition to any warranty provided to TEMSA SKODA SABANCI by the manufacturer of such components.
- 3.2. Components covered by sepa rate warranty performed by after-sales organisation of the component manufacturer (refer to related section of the Service & Warranty Policy Manual).
- 3.3. Repair or replacement of:
  - 3.3.1. Any normal wearing parts,
  - 3.3.2. Any aging or deterioration caused by foreign substances or by exposure to natural elements
  - 3.3.3. Any consumable items, such as oil, grease, refrigerant, filters, belts, bulbs etc.
- 3.4. Missing or over-dated Periodical Maintenance.
- 3.5. Any cost of repairs, alterations or replacements made by, or any expenses connected there with incurred by, anyone other than authorized Distributor/Dealer.
- 3.6. Any warranted vehicle which has been subjected to:
  - 3.6.1. Misuse, improper operation or misapplication, including but not limited to operation beyond rated capacity or purpose.
  - 3.6.2. Neglect, including but not limited to
    - a) Improper maintenance
    - b) Use of vehicle while any parts loose, broken or out of order.
  - 3.6.3. Unauthorized operations and force majeure.
  - 3.6.4. Improper or unauthorized installation, adjustment, repair or alteration including but not limited to:
    - a) Adjustment or assembly procedures not recommended or authorized in the operation & maintenance manual,
    - b) Use of unauthorized and/or genuine parts or attachments
    - c) Unauthorized modification or recall.
  - 3.6.5. Alterations.

TEMSA SKODA SABANCI shall be liable only for repair or replacement of parts as described under 'Warranty Coverage' and TEMSA SKODA SABANCI shall not be liable, whether under breach of warranty, negligence or strict liability, for any other injury, loss, damage or expenses, whether direct or consequential, including but not limited to loss of use, income, profit or production, increased cost of operation or damage to material.

TEMSA SKODA SABANCI reserves the right to make alterations or modifications in the vehicles at any time, which may improve the performance and efficiency of the vehicle in their opinion. TEMSA SKODA SABANCI shall not be obligated to make such alterations or modifications to used machines already in service.

The foregoing warranty is exclusive and in lieu of all other warranties including warranties of merchantability or fitness for a particular purpose, which are expressly disclaimed, whether written or oral, implied or expressed.

TEMSA SKODA SABANCI assumes no other obligation or responsibility with respect to the products, and no employee or representative is authorized to change or extend this warranty in any way or grant any other warranty.



VEHICLE EATURES



| Vehicle Model Code                  |                                             | RPPB7L2                    |
|-------------------------------------|---------------------------------------------|----------------------------|
| <div>Dimensions</div> <div></div>   | Overall length (ft)                         | 45ft                       |
|                                     | Overall width (in)                          | 100"                       |
|                                     | Overall height (in)                         | 11' 54 ft                  |
|                                     | Front Overhang (Front Bumper to Front Axle) | 82.12"                     |
|                                     | Rear Overhang (Rear Bumper to Rear Axle)    | 123"                       |
|                                     | Wellbase (in)                               | 218.11"                    |
|                                     | Turning radius (ft)                         | 31.4 ft                    |
| <div>Engine</div> <div></div>       | Model                                       | EPA24 CUMMINS 360HP L9     |
|                                     |                                             | CARB24 CA CUMMINS 360HP L9 |
|                                     | Tip                                         | Common Rail Diesel         |
| <div></div>                         | Front Axle                                  | ZF-RL 75E                  |
| <div></div>                         | Rear Axle                                   | ZF A 133 Diff. 4.18        |
| <div>Transmission</div> <div></div> | Automatic                                   | ALLISON B500 / B500R       |

## ✂ Vehicle Maintenance Plan

To maintain the reliability of your vehicle, it is essential that you perform the regular maintenance procedures outlined in your Service Record. Your Service Record is the diary of all maintenance work done on your vehicle which should be kept in your vehicle at all times.

### Inspection Service Before Shipment

All components of your vehicle are inspected by TEMSA SKODA SABANCI ULAŞIM ARAÇLARI A.Ş. or the Authorized Dealer in accordance with the maintenance program recommended by TEMSA SKODA SABANCI to help you obtain the maximum satisfaction with your new TEMSA SKODA SABANCI vehicle.

### Periodic Inspection and Maintenance

A suitable maintenance and care program is indispensable for the safe operation of a vehicle and low expenses in general. The periodic maintenance work listed in this booklet is the work that needs to be carried out by the authorized TEMSA SKODA SABANCI dealership and maintenance station under your initiative.

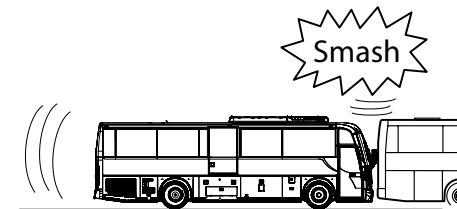
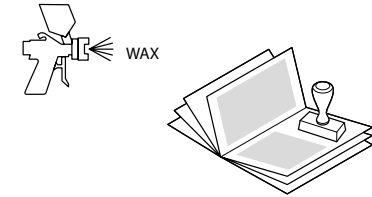
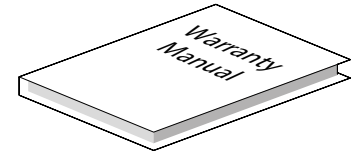
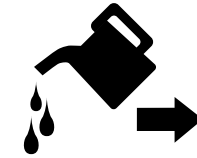
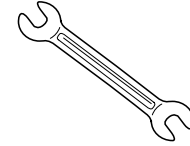
### When the inspection

is completed, the inspection record should be completed and stamped by the inspection company. This record can be found in the Maintenance Record Booklet.

### The costs of all

minor repairs applied for stone crashes, scratches, damage etc. must be undertaken by the vehicle owner.

If the vehicle is subject to an accident or if the plate panels require repair or replacement for any reason, the necessary repairs must be performed in accordance with the procedures in the respective repair manuals.



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## Use under Difficult Conditions

If the vehicle is used under difficult conditions, then the checks should be performed more frequently than the periodic checks specified in this manual. Difficult conditions and operating conditions include:

The shortened period is to protect the vehicle from damage to various areas including lubricant replacement in the transmission and axles where there is the possibility of water, mud, sand etc., causing damage due to contamination. If you are in doubt, please discuss the type of usage of your vehicle with your TEMSA SKODA SABANCI Authorized Service Point.

Driving in dusty areas or in areas where the vehicle is likely to be affected by dusty air or salt water.

Driving on rough roads, rough terrain, mountainous areas.

Driving in cold climates.

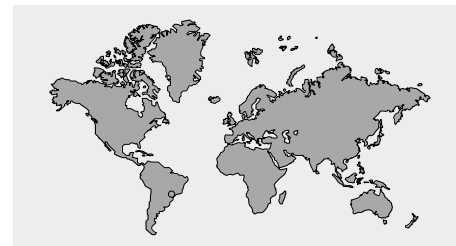
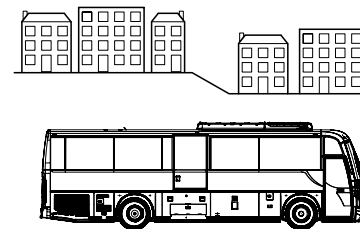
Towing a trailer.

Using as a taxi or rental vehicle.

When 50% of the operating time is over 32 °C or above at ambient temperatures in heavy traffic.

Where 50% of the operating time is 80 km/h or more.

Working with overload.



## Protection Against Corrosion

To protect your vehicle from corrosion, we recommend that the following inspection and cleaning procedures be performed frequently.

## Washing

You need to wash your vehicle frequently to protect it from external factors. When washing your vehicle by hand, use a good quality washing shampoo and warm water that does not burn your hand.



Note: Use water at a maximum temperature of 50 °C.

Use only cleaning agents recommended by TEMSA SKODA SABANCI.



**WARNING**

Do not use strong cleaning agents or chemicals to wash your vehicle. In cases where cleaning agent is used, rinse the surfaces with plenty of water after application. Do not allow residues to dry on painted or glossy surfaces.

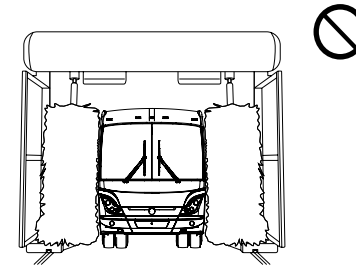


## Washing New Vehicles



### WARNING

Paint surfaces of new vehicles do not immediately set. Therefore, do not wash your vehicle in automatic washing devices for the first 2 months. During this time, only clean the vehicle with water. Do not use additives.

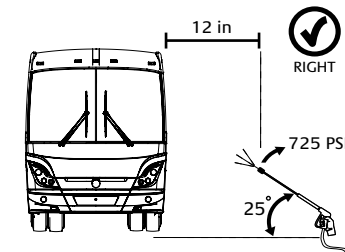


## Pressure Water Washing

You can wash your vehicle with pressurized water, except for the new ones, and you can use mixed water with a soft cleaning agent.

## Adjusting Washing Water

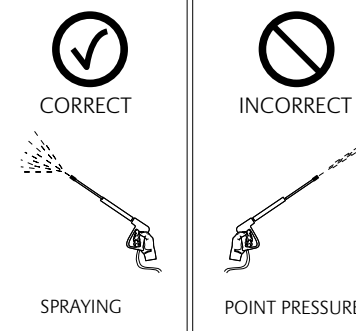
Use warm water when washing your vehicle with pressurized water. You can add cleaning agent at ratio of 1% or 5% to this water.



### WARNING

## Using a Pressure Washer

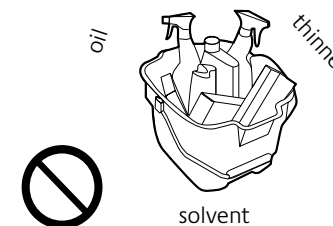
Use only flat spray nozzles in the pressurized water gun. Do not use water jet, pressure nozzles, or nozzles that produce point pressure called dirt milling. The operating pressure of the pressurized water washing device must be 50 bar.



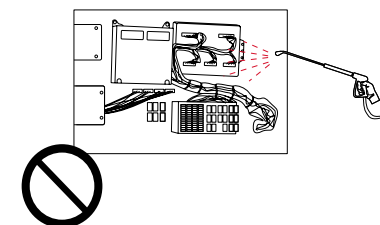
## Never Do These

**WARNING**

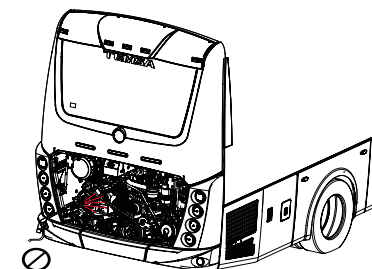
Never use additives or cleaning agents comprising petrol, thinner or any other hydrocarbon based solvents.

**WARNING**

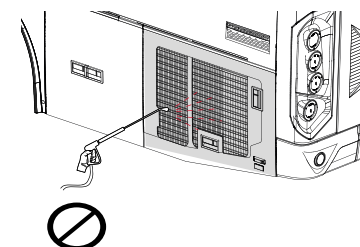
Do not point the water directly to any electrical equipment.

**WARNING**

Do not point the pressurized water directly to engine compartment, air suction zones, draining holes of axle and transmission system.

**WARNING**

Do not direct pressurized water directly at the fan and connections.



## Underbody Maintenance

In the winter, substances such as salt etc. are poured on the roads to prevent icing on the road. In particular, these substances accumulated on the vehicle's fender and underbody lower surfaces cause corrosion.

If these substances are not removed, accelerated corrosion may occur in underbody parts such as frame, base pan, side sills, exhaust system, brake and fuel pipelines.

Underbody and any areas where accumulation of debris and mud etc. may form should be thoroughly washed with normal water at least once a month.

Note: In the winter, wash the bottom of the vehicle at least once a month.

## Paint Maintenance

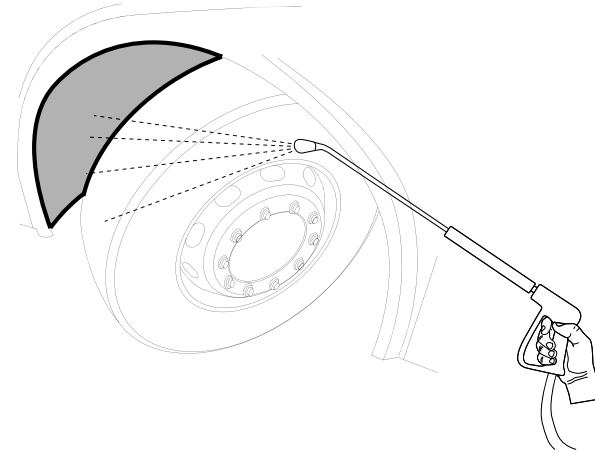
Repair the scratches, paint damage and scratches on painted surfaces at once. Bare metal can immediately rust and cause costs.

## Surface Protection

Protect the paint using a desiccant agent that provides glossy look to the paint.

Perform hot wax polish application after every 3 or 5 washes.

Thus, lubricant components which prevent dirt adherence to paint and facilitate washing processes are used.

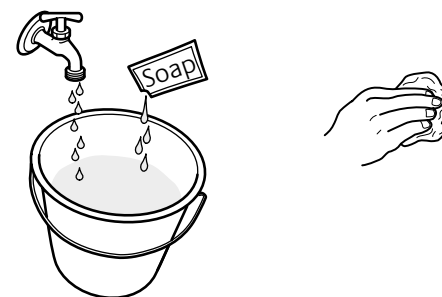
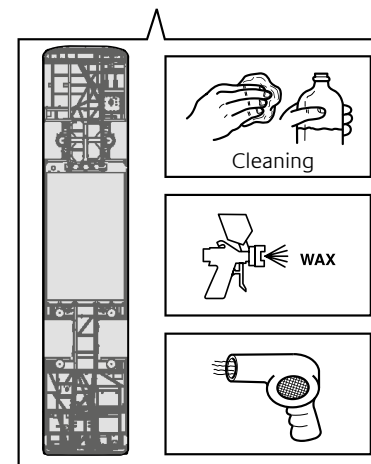


## ❄ Winter Preparation

Before the winter begins, the vehicle must be prepared for the cold season. Neglected corrosion protection measures cause premature corrosion in the vehicle.

### Apply These Regularly

- » Apply waxed-based protectives to superstructure, underbody and chasis.
- » Repeat this application of preservative on particularly damaged zones.
- » Wash and clean the road salt accumulation zones at periodic intervals.
- » Grease the chassis, brake system yokes and joints regularly.
- » Add approved antifreeze to the heating and cooling system with the right proportions.
- » Change the engine oil on its recommended time according to the specified SAE classes.







## Maintenance of TEMSA SKODA SABANCI Branded Vehicle

### Checks to Perform

You can perform the daily inspection and maintenance on the vehicle yourself. Perform the daily inspection and maintenance on the vehicle before operating it every day. Some maintenance work must be carried out periodically depending on the distance that the vehicle covers. Refer to the User's Manual for such inspections.

### Vehicles fitted with a Turbo-Charger

It is essential when the engine is started from cold that it be run for 30-60 seconds prior to driving.

After the engine has been running at high speed or under load, i.e. towing a caravan or trailer, allow the engine to idle for 1 or 2 minutes prior to switching off. This allows the turbo-charger to cool down and avoid possible bearing damage.

### Do It Yourself Checks

As the owner, it is possible for you to carryout many inspections and maintenance items on your vehicle yourself prior to driving long distances. Some of these checks can be carried out daily, weekly and monthly. For these items, please refer to the Do It Yourself section of the Owner's manual.

### Engine Lubrication Requirements

Use of the correct grade of engine oil in your engine is essential. Refer to your Service booklet. (see page 23)

### Battery

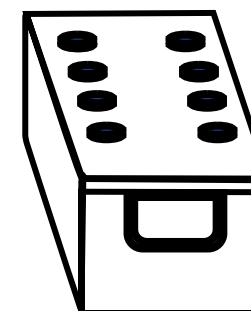
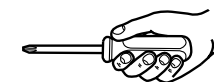
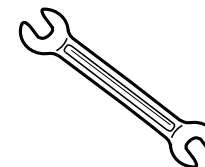
Battery must not leak liquid.

Battery must not be mud, dirt, oil, etc.

There should be no deformation or swelling in the battery.

Oxidation and pole head the bolts should not be loose.

D.I.Y



## Warranty Transfer

If you would like to extend the warranty period of a vehicle under warranty, you will need to go to the nearest TEMSA SKODA SABANCI Maintenance Station and have the vehicle and the customer registered in the TEMSA SKODA SABANCI DMS system.

If you have sold the vehicle to a TEMSA SKODA SABANCI Authorized Dealer, it is their responsibility to fill out all relevant information and deliver it to our representatives.

## Vehicles Originally Purchased In Other Countries

Owners of vehicles sold by TEMSA SKODA SABANCI but purchased in another country are entitled to the level of warranty cover originally provided with the vehicle, which must be supported by all TEMSA SKODA SABANCI Network partners. It is the owner's responsibility to proof entitlement to warranty by producing the Service Portfolio issued with the vehicle. Assistance must be provided following normal warranty procedures and the customer should not be charged for warranty work undertaken. If necessary, approval should be requested from TEMSA SKODA SABANCI to ensure customer satisfaction. No responsibility will be accepted by TEMSA SKODA SABANCI for the following:

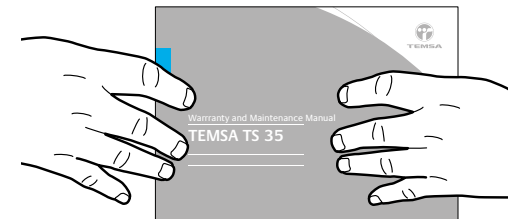
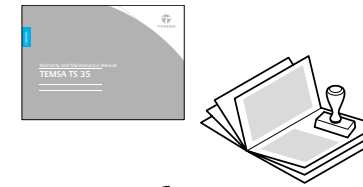
The vehicle, as manufactured by TEMSA SKODA SABANCI, does not meet the legal or operational requirements of market for which it was not specified.

The effects of unauthorised modifications to vehicle undertaken to comply with the legal or operational requirements of market for which it was not specified.

**Note:** Where applicable, TEMSA SKODA SABANCI Network partners may, at the customer's expense, carry out authorised modifications to meet legal or operational requirements of a market.

## Second or Later User

The warranty information of vehicles under warranty are found in the TEMSA SKODA SABANCI DMS system. If you are the second or later user of the vehicle, you can contact TEMSA SKODA SABANCI authorized maintenance stations and receive information on the warranty process of the vehicle.



## Vehicle Handover

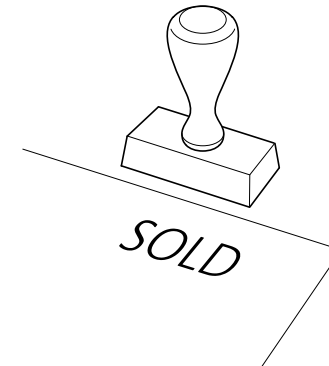
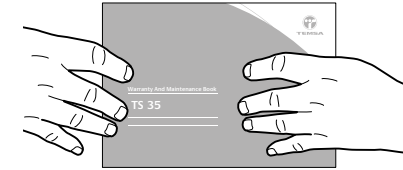
The Dealer has to ensure TEMSA SKODA SABANCI guidelines for vehicle. When presenting the new vehicle to the customer, it is essential that, in addition to explaining the features and controls of the vehicle, the opportunity is taken to fully explain the warranty terms and conditions. In particular the following points should be covered:

- » Introduce the owner to the Service Manager or Service Receptionist in order to create point of contact for service or warranty assistance.
- » Ensure the customer fully understands what the TEMSA SKODA SABANCI warranties cover.
- » Ensure that the owner is aware of the maintenance requirements.

Dealers have to inform their Distributor the sold date of all new TEMSA SKODA SABANCI vehicles. For company or demonstrator vehicles, the date should be the date that the vehicle is taken into service. This sold date must correspond with the Warranty Start Date in the Memorandum of Registration. This information must be provided as soon as possible.



TEMSA SKODA SABANCI



| Maintenance To Be Performed Regardless of Kilometers | Maintenance interval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Leather Seat Usage and Cleaning Instructions         | <p>Do not use bleach.<br/>           Do not clean with chemicals contain solvents/alcohol.<br/>           Do not allow contact with hot objects.<br/>           Do not alter with sharp objects.<br/>           Protect from impacts.<br/>           Do not expose to direct sunlight.<br/>           It can be cleaned with a vacuum cleaner and wiped with a damp cloth.<br/>           Use a highly absorbent cleaning cloth if a spill occurs.<br/>           Clean the spot with gentle movements.<br/>           Wipe oil stains with a soapy cotton cloth.<br/>           Clean with gentle movements using a clean, damp cloth.</p> |
| Velvet Seat Usage and Cleaning Instructions          | <p>Do not wash.<br/>           Detergent, bleach and chemical compounds absolutely must not be used.<br/>           It must be wiped in the direction of the fuzz with soft soap, white soap or a special shampoo,<br/>           left to dry and not sat on until it dries.<br/>           It can be dry cleaned except with trichlorethylene.<br/>           It can be ironed at low temperature.<br/>           Avoid exposure to direct sunlight.<br/>           Avoid direct contact with pets.</p>                                                                                                                                    |
| Air conditioning air suction culvert                 | Priority on cleaning, replacement if necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Battery care                                         | <p>The battery fluid level must be checked and the fluid level must be set if necessary.<br/>           The cable connections and pole heads of the battery must be checked.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Replace the air filter for the air conditioner       | controlled exchange                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## RECOMMENDED CHANGE INTERVALS

|                                                                                                      | Capacity | Norm/Class                                         | Değişim                                            |
|------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------|----------------------------------------------------|
| Cardan Shaft grease                                                                                  | 1,9 lbs  | RETINAX LX2                                        | 15.000 miles / 3 months / 25.000 km                |
| Engine oil (EPA24 CUMMINS 360HP L9)                                                                  | 6,4 gal  | CASTROL VECTON 15W-40 CK-4                         | 15.000 mil / 1,200 hours / 6 months / 25.000 km    |
| Replacement of differential oil                                                                      | 4,5 gal  | ZF Ecofluid X SAE 80W-90 12E                       | 90.000 mil / 3 years / 168.000 km                  |
| Replacement of steering hydraulic oil                                                                | 18.1 gal | Castrol ATF Dex II Multivehicle                    | 45.000 mil / 72.000 km                             |
| Replacement of coolant (antifreeze)                                                                  | 26 gal   | CUMMINS MOTOR ANTIFRIZ CC0285200 M                 | 45.000 mil / 72.000 km                             |
| Hydrostatic Transmission Oil                                                                         | 0,1 gal  | deagear Synth 75W90<br>TITAN Cytrac MB Synth 75w90 | 105.000 mil / 168.000 km                           |
| Transmission oil(ALLISON B 500)                                                                      | 10 gal   | TranSynd 668                                       | 150.000 mil / 6.000 hours / 48 months / 240.000 km |
| A/C compressor oil                                                                                   | 0,5 gal  | SE55 Esther Oil                                    | Change with controller                             |
| Replacement of door lock strikers grease                                                             | 0,04 lbs | MOBIL XHP 222                                      | Change with controller                             |
| Replacement of air conditioning gas                                                                  | 0,1 lbs  | R 134 A                                            | Change with controller                             |
| Wiper mechanism lubrication                                                                          | 0,04 lbs | Spheerol EPLX 200-2                                | Change with controller                             |
| Linnig Angel Gearbox Drive oil                                                                       | 0,2 gal  | Texaco 01554 Aircraft Hydraulic Oil                | Change with controller / 2-3 years                 |
| Replacement of hub grease (Front and Rear)                                                           | 1,9 lbs  | ZF TE-ML 12                                        | 300.000 mil / 500.000 km                           |
| Vax, engine compartment (areas exposed to high and low temperatures)                                 | -        | Efcoat WB 463 A1                                   | 3 years                                            |
| Vax, general use (inside the 3 Years 3 year profile, some equipment in the engine compartment, etc.) |          | Anticorit CPX 3373                                 |                                                    |
| Tire pressure                                                                                        | Front    |                                                    | Rear                                               |
|                                                                                                      | 125 PSI  |                                                    | 125 PSI                                            |

**WARNING**

Rotating fans or fan blades have the potential to cause serious cuts, injuries and even amputations. It is important to take safety precautions and avoid direct contact with these dangerous parts.

**WARNING**

\*The denomination "hot country use" is derived from the area where the vehicle is used, rather than from a country in the sense of a state. It is assumed that the conditions are "Hot Country Use" when:

1. The monthly average temperature exceeds 77°F (25°C) in more than 2 months within a year.
2. or if temperature rise above 104°F (40°C) on more than 7 days in a year.

Examples for possible countries or regions are : America: USA (South and deserts), Mexico.

**WARNING**

Precautions to prevent corrosion in cooling systems: Rinse with deionized water before each filling, ensure that the ethylene glycol used complies with the standard, ensure that the ethylene glycol contains an active corrosion inhibitor, use distilled water when mixing ethylene glycol with deionized water (60% ethylene glycol to 40% deionized water ratio), do not mix different types of coolants.

**WARNING**

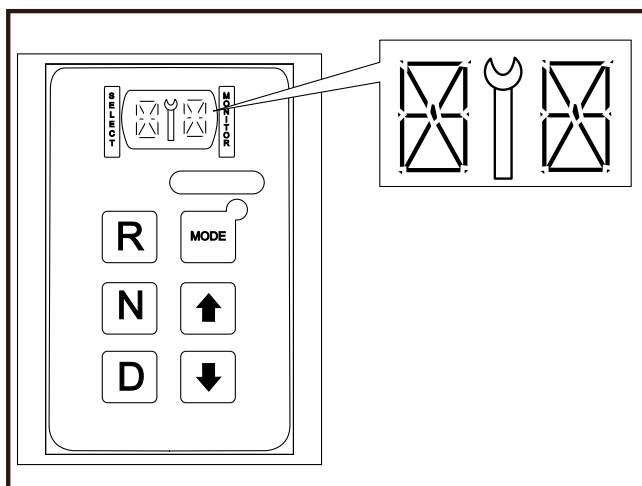
Fire hazard due to flammable materials!  
Before replacing the filter drier, remove the filter mat to prevent coolant oil from falling onto it.

## Maintenance Items That Drivers Should Check Regularly

| Key points                                                                                                                                    | Maintenance intervals |        |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------|---------|
|                                                                                                                                               | Daily                 | Weekly | Monthly |
| Make sure they are up-to-date by checking the vehicle records, insurance, and other necessary documents.                                      | ■                     |        |         |
| Make sure the seat belts are in good condition and the seats are securely fastened.                                                           | ■                     |        |         |
| All headlights, turn indicators and taillights must be in working order.                                                                      | ■                     |        |         |
| Check the tyre pressure.                                                                                                                      | ■                     |        |         |
| The disabled ramp should be air-cleaned every day                                                                                             | ■                     |        |         |
| The disabled ramp should be cleaned weekly and checked for dust, mud or stones that may prevent the ramp sensor from reading during cleaning. |                       | ■      |         |
| Check the windshield wipers for damage or wear and replace them if necessary.                                                                 |                       |        | ■       |
| Check the level of windshield washer fluid                                                                                                    |                       | ■      |         |
| Engine Coolant Level Check (When the Engine Is Cold)                                                                                          | ■                     |        |         |
| Draining water from air tanks.                                                                                                                | ■                     |        |         |
| Check the battery connections and measure the battery voltage. Replace low-performing batteries.                                              |                       | ■      |         |



Drivers taking a short check will help prevent major problems.

**WARNING!**

## Transmission

On the gearshift screen: Contact the nearest authorized Allison service when the gearshift selector warns as shown in the left. The reason for the warning must be determined by an authorized or qualified service with connection diagnosis. It will be better if the service life of the oil is monitored on an hourly basis especially for urban operations (for vehicles used with a speed of 40 km / h and lower). In addition, the oil and filter change interval must be determined according to this parameter. When this warning appears, this means that either the oil replacement period has expired or there is a technical problem with the transmission.

**Note 1:** Maintenances in table should be done of this maintenance & multiples of this maintenance.

**Note 2:** ATTENTION!

The quantities of oil and fluid specified are to be used for guidance only.

Use the oil level gauge, inspection plug holes, and level lines to make sure the oil and fluid levels are correct.





## Axles and wheel heads for buses (A, AV and RL series)

| Lubricant class               | Operating conditions                                                                        | Oil level check             | Oil change intervals and breather maintenance, ZF diaphragm breather (4) Hot-country operation (3) |
|-------------------------------|---------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------|
| ZF EcoFluid X SAE 80W-90 12M  | Line operation<br>City operation<br>Suburban operation<br>Coaches                           | With each engine oil change | 120.000 km / 80,000 miles / 2 years (2)                                                            |
| ZF EcoFluid XL SAE 75W-85 12F | Line operation<br>City operation<br>Suburban operation for low-floor portal axles AV series |                             | 120.000 km / 80,000 miles / 2 years (2)                                                            |



### WARNING

(2) Change required, depending on what occurs first.

(3) The denomination „hot country use“ is derived from the area where the vehicle is used, rather than from a country in the sense of a state.

Regarding ZF units, we say “Hot country use” when: 1. the monthly average temperature exceeds 25°C in more than 2 months within a year 2. or if temperatures rise above 40°C on more than 7 days in a year

Examples for possible countries or regions are:

America: Mexico, USA (South and deserts)

Whole Africa (without South Africa)



MENU

| The following maintenance should be performed independent of mileage;                                                          |                |
|--------------------------------------------------------------------------------------------------------------------------------|----------------|
| Description                                                                                                                    | Intervals      |
| Check the engine compartment automatic fire extinguisher system to verify*;                                                    | Every Months   |
| The Suppression Unit is in its proper location.                                                                                |                |
| The Tamper Indicator is intact.                                                                                                |                |
| The Maintenance Tag or Certificate is in place.                                                                                |                |
| The Suppression Unit shows no physical damage or condition that might prevent operation.                                       |                |
| This includes inspecting the detection tubing in the hazard area for abrasion, distortion, cuts, or dirt accumulation.         |                |
| The Pressure Gauge is in the operable range.                                                                                   |                |
| The Nozzle Blow-off Caps are intact and undamaged (if applicable).                                                             |                |
| Neither the Protected Equipment nor the Hazard has been replaced, modified, or relocated.                                      |                |
| Check the engine compartment automatic fire extinguisher system**;                                                             | Every 6 Months |
| Make sure that the hazard has not changed.                                                                                     |                |
| Inspect detection/actuation tubing, discharge piping, nozzles, signals, and all other auxiliary equipment.                     |                |
| Verify that the agent distribution piping is not obstructed.                                                                   |                |
| The Fire Suppression System Indication Module functionality should be tested.                                                  |                |
| The Fire Suppression System Assembly should be disconnected from the detection and discharge networks and the powder agitated. |                |



FireTrace Periodic Service and Maintenance Procedures

| Key points                                                                                                                                                                                                         | Monthly | Semiannual |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------|
| The Suppression Unit is in its proper location.                                                                                                                                                                    | ■       |            |
| The Manual Actuators are unobstructed.                                                                                                                                                                             | ■       |            |
| The Tamper Indicator is intact.                                                                                                                                                                                    | ■       |            |
| The Maintenance Tag or Certificate is in place.                                                                                                                                                                    | ■       |            |
| The Suppression Unit shows no physical damage or condition that might prevent operation.<br>This includes inspecting the detection tubing in the hazard area for abrasion, distortion, cuts, or dirt accumulation. | ■       |            |
| The Pressure Gauge is in the operable range.                                                                                                                                                                       | ■       |            |
| The Nozzle Blowoff Caps are intact and undamaged.                                                                                                                                                                  | ■       |            |
| Neither the Protected Equipment nor the Hazard has been replaced, modified, or relocated.                                                                                                                          | ■       |            |
| Check to see that the hazard has not changed.                                                                                                                                                                      |         | ■          |
| Inspect detection /actuation tubing, Manual releases, discharge piping, nozzles, signals, and all other auxiliary equipment.                                                                                       |         | ■          |
| Verify that the agent distribution piping is not obstructed.                                                                                                                                                       |         | ■          |



Examination of the Dry Chemical shall be conducted at an Authorized Firetrace Service Location at least once every 6 years. The powder will be examined for caking and may require replacement.



Only ABC Dry Chemical Powder supplied by Firetrace may be used in any Firetrace Dry Chemical Standalone Automatic Indirect Fire Extinguishing Unit.



MENU

| SYSTEM |     | FireTrace Periodic Service and Maintenance Procedures             |       |        |         |
|--------|-----|-------------------------------------------------------------------|-------|--------|---------|
| ON     | OFF | Key points                                                        | Daily | Weekly | Monthly |
| X      |     | Pre-trip Inspection - after starting                              | ■     |        |         |
|        | X   | Check tension and condition of V-belt                             | ■     |        |         |
|        | X   | Perform daily inspection                                          |       | ■      |         |
|        | X   | Check condenser, evaporator coils and air filters for cleanliness |       | ■      |         |
|        | X   | Check refrigerant hoses and compressor shaft seal for leak        |       | ■      |         |
| X      |     | Feel filter-drier for excessive temperature drop across drier     |       | ■      |         |
|        | X   | Perform weekly inspection and maintenance                         |       |        | ■       |
|        | X   | Clean evaporator drain pans and hoses                             |       |        | ■       |
|        | X   | Check wire harnesses for chafing and loose terminals              |       |        | ■       |
|        | X   | Check fan motor bearings                                          |       |        | ■       |
|        | X   | Check compressor mounting bolts for tightness                     |       |        | ■       |
|        | X   | Check fan motor brushes                                           |       |        | ■       |



## 15.000 miles MAINTENANCE CHECKLIST

**Periodical Maintenance:** **R:** Replace **C:** Check **C/R:** Check&Replace **CL:** Cleaning

|                                                                                                                          |   |
|--------------------------------------------------------------------------------------------------------------------------|---|
| Replacement of fuel filter                                                                                               | R |
| Replacement of Engine Oil                                                                                                | R |
| Replace engine oil filter                                                                                                | R |
| Replacement of cardan shaft grease                                                                                       | R |
| Replacement of Water Separator Filter                                                                                    | R |
| Replacement of fuel nozzle, pre-heater                                                                                   | R |
| Replacement of fuel pre-heater filter                                                                                    | R |
| Replacement of external air filter                                                                                       | R |
| Inspection of engine coolant anti-freeze                                                                                 | C |
| Inspection of the battery cables and connections                                                                         | C |
| Inspection of radiator pressure cap                                                                                      | C |
| Inspect differential oil level                                                                                           | C |
| Inspect differential oil for leaks                                                                                       | C |
| Inspect the fluid and fluid level in the power steering reservoir for the steering mechanism.                            | C |
| Inspect the steering mechanism for any gaps, rattling, or waddling in any part of the steering connection.               | C |
| Inspect brake system for air leaks                                                                                       | C |
| Inspect the brake pads. If the backplate and friction material thickness is less than 11 mm, the pad should be replaced. | C |
| Inspect the brake disks. If the disk thickness is less than 37 mm, the disk should be replaced.                          | C |
| Inspection of suspension connections                                                                                     | C |
| Inspection for leaks on air bellows                                                                                      | C |

|                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------|-----|
| Inspect starter wires                                                                                               | C   |
| Inspect the electrolyte level and density                                                                           | C   |
| Inspection of mirror connections                                                                                    | C   |
| Inspect the tightness of wheel nut                                                                                  | C   |
| Inspection of tire pressure                                                                                         | C   |
| Inspection of spare tyre connection                                                                                 | C   |
| Inspection of the functioning of the safety mechanism of all doors                                                  | C   |
| Inspection and adjustment of trunk locks for proper functioning (with the lubrication of the door hinges and locks) | C   |
| Inspection for proper functioning, air leak, tightness, door damage                                                 | C   |
| Inspection of fire extinguishing system                                                                             | C   |
| Inspection of A/C belt - Change when necessary                                                                      | C/R |
| Inspection of the refrigerant - Change when necessary                                                               | C/R |
| Inspection of refrigerant dryer - Change when necessary                                                             | C/R |
| Inspection of A/C compressor oil                                                                                    | C/R |
| Replacement of wiper mechanism grease                                                                               | C/R |
| Inspection of door lubrication - Change when necessary                                                              | C/R |
| Inspection of lift oil - Replace when necessary                                                                     | C/R |
| Inspection and cleaning of the battery                                                                              | CL  |
| Cleaning of heating coil for defroster filter                                                                       | CL  |
| Cleaning of cooling coil for defroster filter                                                                       | CL  |
| Cleaning of defroster air filter                                                                                    | CL  |

## 30.000 miles MAINTENANCE CHECKLIST

**Periodical Maintenance:** **R:** Replace **C:** Check **C/R:** Check&Replace **CL:** Cleaning

|                                                                                                                          |   |
|--------------------------------------------------------------------------------------------------------------------------|---|
| Replacement of fuel filter                                                                                               | R |
| Replacement of Engine Oil                                                                                                | R |
| Replace engine oil filter                                                                                                | R |
| Replacement of cardan shaft grease                                                                                       | R |
| Replacement of Water Separator Filter                                                                                    | R |
| Replacement of fuel nozzle, pre-heater                                                                                   | R |
| Replacement of fuel pre-heater filter                                                                                    | R |
| Replacement of external air filter                                                                                       | R |
| Inspection of engine coolant anti-freeze                                                                                 | C |
| Inspection of the battery cables and connections                                                                         | C |
| Inspection of radiator pressure cap                                                                                      | C |
| Inspect differential oil level                                                                                           | C |
| Inspect differential oil for leaks                                                                                       | C |
| Inspect the fluid and fluid level in the power steering reservoir for the steering mechanism.                            | C |
| Inspect the steering mechanism for any gaps, rattling, or waddling in any part of the steering connection.               | C |
| Inspect brake system for air leaks                                                                                       | C |
| Inspect the brake pads. If the backplate and friction material thickness is less than 11 mm, the pad should be replaced. | C |
| Inspect the brake disks. If the disk thickness is less than 37 mm, the disk should be replaced.                          | C |
| Inspection of suspension connections                                                                                     | C |
| Inspection for leaks on air bellows                                                                                      | C |
| Inspect starter wires                                                                                                    | C |
| Inspect the electrolyte level and density                                                                                | C |

|                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------|-----|
| Inspection of mirror connections                                                                                    | C   |
| Inspect the tightness of wheel nut                                                                                  | C   |
| Inspection of tire pressure                                                                                         | C   |
| Inspection of spare tyre connection                                                                                 | C   |
| Inspection of the functioning of the safety mechanism of all doors                                                  | C   |
| Inspection and adjustment of trunk locks for proper functioning (with the lubrication of the door hinges and locks) | C   |
| Inspection for proper functioning, air leak, tightness, door damage                                                 | C   |
| Inspection of cooling fan belt pre-tensioner                                                                        | C   |
| Inspection of air compressor discharge lines                                                                        | C   |
| Inspection of fire extinguishing system                                                                             | C   |
| Inspection of A/C belt - Change when necessary                                                                      | C/R |
| Inspection of the refrigerant - Change when necessary                                                               | C/R |
| Inspection of refrigerant dryer - Change when necessary                                                             | C/R |
| Inspection of A/C compressor oil                                                                                    | C/R |
| Replacement of wiper mechanism grease                                                                               | C/R |
| Inspection of door lubrication - Change when necessary                                                              | C/R |
| Inspection of fan drive belt - Replace when necessary                                                               | C/R |
| Inspection of lift oil - Replace when necessary                                                                     | C/R |
| Inspection and cleaning of the battery                                                                              | CL  |
| Cleaning of heating coil for defroster filter                                                                       | CL  |
| Cleaning of cooling coil for defroster filter                                                                       | CL  |
| Cleaning of defroster air filter                                                                                    | CL  |

## 45.000 miles MAINTENANCE CHECKLIST

**Periodical Maintenance:** **R:** Replace **C:** Check **C/R:** Check&Replace **CL:** Cleaning

|                                                                                                                         |   |
|-------------------------------------------------------------------------------------------------------------------------|---|
| Replacement of air dry filter                                                                                           | R |
| Replacement steering oil                                                                                                | R |
| Replace steering oil filter                                                                                             | R |
| Replacement of internal air filter, every 3 maintenances                                                                | R |
| Inspection of extra coolant additive (SCA) and antifreeze concentration                                                 | R |
| Replacement of fuel filter                                                                                              | R |
| Replacement of Engine Oil                                                                                               | R |
| Replace engine oil filter                                                                                               | R |
| Replacement of cardan shaft grease                                                                                      | R |
| Replacement of Water Separator Filter                                                                                   | R |
| Replacement of fuel nozzle, pre-heater                                                                                  | R |
| Replacement of fuel pre-heater filter                                                                                   | R |
| Replacement of external air filter                                                                                      | R |
| Inspection of engine coolant anti-freeze                                                                                | C |
| Inspection of the battery cables and connections                                                                        | C |
| Inspection of radiator pressure cap                                                                                     | C |
| Inspect differential oil level                                                                                          | C |
| Inspect differential oil for leaks                                                                                      | C |
| Inspect the fluid and fluid level in the power steering reservoir for the steering mechanism.                           | C |
| Inspect the steering mechanism for any gaps, rattling, or waddling in any part of the steering connection.              | C |
| Inspect brake system for air leaks                                                                                      | C |
| Inspect the brake pads. If the backplate and friction material thickness is less than 11mm, the pad should be replaced. | C |
| Inspect the brake disks. If the disk thickness is less than 37 mm, the disk should be replaced.                         | C |

|                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------|-----|
| Inspection of suspension connections                                                                                | C   |
| Inspection for leaks on air bellows                                                                                 | C   |
| Inspect starter wires                                                                                               | C   |
| Inspect the electrolyte level and density                                                                           | C   |
| Inspection of mirror connections                                                                                    | C   |
| Inspect the tightness of wheel nut                                                                                  | C   |
| Inspection of tire pressure                                                                                         | C   |
| Inspection of spare tyre connection                                                                                 | C   |
| Inspection of the functioning of the safety mechanism of all doors                                                  | C   |
| Inspection and adjustment of trunk locks for proper functioning (with the lubrication of the door hinges and locks) | C   |
| Inspection for proper functioning, air leak, tightness, door damage                                                 | C   |
| Inspection of fire extinguishing system                                                                             | C   |
| Inspection of A/C belt - Change when necessary                                                                      | C/R |
| Inspection of the refrigerant - Change when necessary                                                               | C/R |
| Inspection of refrigerant dryer - Change when necessary                                                             | C/R |
| Inspection of A/C compressor oil                                                                                    | C/R |
| Replacement of wiper mechanism grease                                                                               | C/R |
| Inspection of door lubrication - Change when necessary                                                              | C/R |
| Inspection of lift oil - Replace when necessary                                                                     | C/R |
| Inspection and cleaning of the battery                                                                              | CL  |
| Cleaning of heating coil for defroster filter                                                                       | CL  |
| Cleaning of cooling coil for defroster filter                                                                       | CL  |
| Cleaning of defroster air filter                                                                                    | CL  |



## 60.000 miles MAINTENANCE CHECKLIST

**Periodical Maintenance:** **R:** Replace **C:** Check **C/R:** Check&Replace **CL:** Cleaning

|                                                                                                                          |   |
|--------------------------------------------------------------------------------------------------------------------------|---|
| Replacement of fuel filter                                                                                               | R |
| Replacement of Engine Oil                                                                                                | R |
| Replace engine oil filter                                                                                                | R |
| Replacement of cardan shaft grease                                                                                       | R |
| Replacement of Water Separator Filter                                                                                    | R |
| Replacement of fuel nozzle, pre-heater                                                                                   | R |
| Replacement of fuel pre-heater filter                                                                                    | R |
| Replacement of external air filter                                                                                       | R |
| Inspection of engine coolant anti-freeze                                                                                 | C |
| Inspection of the battery cables and connections                                                                         | C |
| Inspection of radiator pressure cap                                                                                      | C |
| Inspect differential oil level                                                                                           | C |
| Inspect differential oil for leaks                                                                                       | C |
| Inspect the fluid and fluid level in the power steering reservoir for the steering mechanism.                            | C |
| Inspect the steering mechanism for any gaps, rattling, or waddling in any part of the steering connection.               | C |
| Inspect brake system for air leaks                                                                                       | C |
| Inspect the brake pads. If the backplate and friction material thickness is less than 11 mm, the pad should be replaced. | C |
| Inspect the brake disks. If the disk thickness is less than 37 mm, the disk should be replaced.                          | C |
| Inspection of suspension connections                                                                                     | C |
| Inspection for leaks on air bellows                                                                                      | C |
| Inspect starter wires                                                                                                    | C |
| Inspect the electrolyte level and density                                                                                | C |
| Inspection of mirror connections                                                                                         | C |
| Inspect the tightness of wheel nut                                                                                       | C |

|                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------|-----|
| Inspection of tire pressure                                                                                         | C   |
| Inspection of spare tyre connection                                                                                 | C   |
| Inspection of the functioning of the safety mechanism of all doors                                                  | C   |
| Inspection and adjustment of trunk locks for proper functioning (with the lubrication of the door hinges and locks) | C   |
| Inspection for proper functioning, air leak, tightness, door damage                                                 | C   |
| Inspection of cooling fan belt pre-tensioner                                                                        | C   |
| Inspection of air compressor discharge lines                                                                        | C   |
| Inspection of cooling system                                                                                        | C   |
| Inspection of vibration damper, viscose                                                                             | C   |
| Radiator Hoses - Inspection                                                                                         | C   |
| Inspection of fire extinguishing system                                                                             | C   |
| Inspection of A/C belt - Change when necessary                                                                      | C/R |
| Inspection of the refrigerant - Change when necessary                                                               | C/R |
| Inspection of refrigerant dryer - Change when necessary                                                             | C/R |
| Inspection of A/C compressor oil                                                                                    | C/R |
| Replacement of wiper mechanism grease                                                                               | C/R |
| Inspection of door lubrication - Change when necessary                                                              | C/R |
| Inspection of fan drive belt - Replace when necessary                                                               | C/R |
| Inspection of lift oil - Replace when necessary                                                                     | C/R |
| Inspection and cleaning of the battery                                                                              | CL  |
| Removal of engine steam                                                                                             | CL  |
| Cleaning of heating coil for defroster filter                                                                       | CL  |
| Cleaning of cooling coil for defroster filter                                                                       | CL  |
| Cleaning of defroster air filter                                                                                    | CL  |



MENU



## 75.000 miles MAINTENANCE CHECKLIST

**Periodical Maintenance:** **R:** Replace **C:** Check **C/R:** Check&Replace **CL:** Cleaning

|                                                                                                                          |   |
|--------------------------------------------------------------------------------------------------------------------------|---|
| Replacement of fuel filter                                                                                               | R |
| Replacement of Engine Oil                                                                                                | R |
| Replace engine oil filter                                                                                                | R |
| Replacement of cardan shaft grease                                                                                       | R |
| Replacement of Water Separator Filter                                                                                    | R |
| Replacement of fuel nozzle, pre-heater                                                                                   | R |
| Replacement of fuel pre-heater filter                                                                                    | R |
| Replacement of external air filter                                                                                       | R |
| Replacement of fuel pre-heater pump repair set                                                                           | R |
| Replacement of fuel pre-heater pump                                                                                      | R |
| Replacement of transmission oil filter                                                                                   | R |
| Inspection of engine coolant anti-freeze                                                                                 | C |
| Inspection of the battery cables and connections                                                                         | C |
| Inspection of radiator pressure cap                                                                                      | C |
| Inspect differential oil level                                                                                           | C |
| Inspect differential oil for leaks                                                                                       | C |
| Inspect the fluid and fluid level in the power steering reservoir for the steering mechanism.                            | C |
| Inspect the steering mechanism for any gaps, rattling, or waddling in any part of the steering connection.               | C |
| Inspect brake system for air leaks                                                                                       | C |
| Inspect the brake pads. If the backplate and friction material thickness is less than 11 mm, the pad should be replaced. | C |
| Inspect the brake disks. If the disk thickness is less than 37 mm, the disk should be replaced.                          | C |
| Inspection of suspension connections                                                                                     | C |
| Inspection for leaks on air bellows                                                                                      | C |

|                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------|-----|
| Inspect starter wires                                                                                               | C   |
| Inspect the electrolyte level and density                                                                           | C   |
| Inspection of mirror connections                                                                                    | C   |
| Inspect the tightness of wheel nut                                                                                  | C   |
| Inspection of tire pressure                                                                                         | C   |
| Inspection of spare tyre connection                                                                                 | C   |
| Inspection of the functioning of the safety mechanism of all doors                                                  | C   |
| Inspection and adjustment of trunk locks for proper functioning (with the lubrication of the door hinges and locks) | C   |
| Inspection for proper functioning, air leak, tightness, door damage                                                 | C   |
| Inspection of fire extinguishing system                                                                             | C   |
| Inspection of A/C belt - Change when necessary                                                                      | C/R |
| Inspection of the refrigerant - Change when necessary                                                               | C/R |
| Inspection of refrigerant dryer - Change when necessary                                                             | C/R |
| Inspection of A/C compressor oil                                                                                    | C/R |
| Replacement of wiper mechanism grease                                                                               | C/R |
| Inspection of door lubrication - Change when necessary                                                              | C/R |
| Inspection of lift oil - Replace when necessary                                                                     | C/R |
| Inspection and cleaning of the battery                                                                              | CL  |
| Cleaning of heating coil for defroster filter                                                                       | CL  |
| Cleaning of cooling coil for defroster filter                                                                       | CL  |
| Cleaning of defroster air filter                                                                                    | CL  |

## 90.000 miles MAINTENANCE CHECKLIST

**Periodical Maintenance:** **R:** Replace **C:** Check **C/R:** Check&Replace **CL:** Cleaning

|                                                                                                                          |   |
|--------------------------------------------------------------------------------------------------------------------------|---|
| Differential oil replacement                                                                                             | R |
| Replacement of fuel filter                                                                                               | R |
| Replacement of Engine Oil                                                                                                | R |
| Replace engine oil filter                                                                                                | R |
| Replacement of cardan shaft grease                                                                                       | R |
| Replacement of Water Separator Filter                                                                                    | R |
| Replacement of fuel nozzle, pre-heater                                                                                   | R |
| Replacement of fuel pre-heater filter                                                                                    | R |
| Replacement of external air filter                                                                                       | R |
| Replacement of internal air filter, every 3 maintenances                                                                 | R |
| Replacement of air dry filter                                                                                            | R |
| Replacement steering oil                                                                                                 | R |
| Replace steering oil filter                                                                                              | R |
| Inspection of extra coolant additive (SCA) and antifreeze concentration                                                  | R |
| Inspection of engine coolant anti-freeze                                                                                 | C |
| Inspection of the battery cables and connections                                                                         | C |
| Inspection of radiator pressure cap                                                                                      | C |
| Inspect differential oil level                                                                                           | C |
| Inspect differential oil for leaks                                                                                       | C |
| Inspect the fluid and fluid level in the power steering reservoir for the steering mechanism.                            | C |
| Inspect the steering mechanism for any gaps, rattling, or waddling in any part of the steering connection.               | C |
| Inspect brake system for air leaks                                                                                       | C |
| Inspect the brake pads. If the backplate and friction material thickness is less than 11 mm, the pad should be replaced. | C |
| Inspect the brake disks. If the disk thickness is less than 37 mm, the disk should be replaced.                          | C |
| Inspection of suspension connections                                                                                     | C |
| Inspection for leaks on air bellows                                                                                      | C |

|                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------|-----|
| Inspect starter wires                                                                                               | C   |
| Inspect the electrolyte level and density                                                                           | C   |
| Inspection of mirror connections                                                                                    | C   |
| Inspect the tightness of wheel nut                                                                                  | C   |
| Inspection of tire pressure                                                                                         | C   |
| Inspection of spare tyre connection                                                                                 | C   |
| Inspection of the functioning of the safety mechanism of all doors                                                  | C   |
| Inspection and adjustment of trunk locks for proper functioning (with the lubrication of the door hinges and locks) | C   |
| Inspection for proper functioning, air leak, tightness, door damage                                                 | C   |
| Inspection of cooling fan belt pre-tensioner                                                                        | C   |
| Inspection of air compressor discharge lines                                                                        | C   |
| Inspection of fire extinguishing system                                                                             | C   |
| Inspection of A/C belt - Change when necessary                                                                      | C/R |
| Inspection of the refrigerant - Change when necessary                                                               | C/R |
| Inspection of refrigerant dryer - Change when necessary                                                             | C/R |
| Inspection of A/C compressor oil                                                                                    | C/R |
| Replacement of wiper mechanism grease                                                                               | C/R |
| Inspection of door lubrication - Change when necessary                                                              | C/R |
| Inspection of fan drive belt - Replace when necessary                                                               | C/R |
| Inspection of lift oil - Replace when necessary                                                                     | C/R |
| Cleaning of defroster air filter                                                                                    | CL  |
| Cleaning of defroster air filter                                                                                    | CL  |
| Inspection and cleaning of the battery                                                                              | CL  |
| Cleaning of heating coil for defroster filter                                                                       | CL  |
| Cleaning of cooling coil for defroster filter                                                                       | CL  |

## 105.000 miles MAINTENANCE CHECKLIST

**Periodical Maintenance:** **R:** Replace **C:** Check **C/R:** Check&Replace **CL:** Cleaning

|                                                                                                                         |   |
|-------------------------------------------------------------------------------------------------------------------------|---|
| Replacement of hydraulic fan oil                                                                                        | R |
| Replacement of fuel filter                                                                                              | R |
| Replacement of Engine Oil                                                                                               | R |
| Replace engine oil filter                                                                                               | R |
| Replacement of cardan shaft grease                                                                                      | R |
| Replacement of Water Separator Filter                                                                                   | R |
| Replacement of fuel nozzle, pre-heater                                                                                  | R |
| Replacement of fuel pre-heater filter                                                                                   | R |
| Replacement of external air filter                                                                                      | R |
| Inspection of engine coolant anti-freeze                                                                                | C |
| Inspection of the battery cables and connections                                                                        | C |
| Inspection of radiator pressure cap                                                                                     | C |
| Inspect differential oil level                                                                                          | C |
| Inspect differential oil for leaks                                                                                      | C |
| Inspect the fluid and fluid level in the power steering reservoir for the steering mechanism.                           | C |
| Inspect the steering mechanism for any gaps, rattling, or waddling in any part of the steering connection.              | C |
| Inspect brake system for air leaks                                                                                      | C |
| Inspect the brake pads. If the backplate and friction material thickness is less than 11mm, the pad should be replaced. | C |
| Inspect the brake disks. If the disk thickness is less than 37 mm, the disk should be replaced.                         | C |
| Inspection of suspension connections                                                                                    | C |
| Inspection for leaks on air bellows                                                                                     | C |

|                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------|-----|
| Inspect starter wires                                                                                               | C   |
| Inspect the electrolyte level and density                                                                           | C   |
| Inspection of mirror connections                                                                                    | C   |
| Inspect the tightness of wheel nut                                                                                  | C   |
| Inspection of tire pressure                                                                                         | C   |
| Inspection of spare tyre connection                                                                                 | C   |
| Inspection of the functioning of the safety mechanism of all doors                                                  | C   |
| Inspection and adjustment of trunk locks for proper functioning (with the lubrication of the door hinges and locks) | C   |
| Inspection for proper functioning, air leak, tightness, door damage                                                 | C   |
| Inspection of fire extinguishing system                                                                             | C   |
| Inspection of A/C belt - Change when necessary                                                                      | C/R |
| Inspection of the refrigerant - Change when necessary                                                               | C/R |
| Inspection of refrigerant dryer - Change when necessary                                                             | C/R |
| Inspection of A/C compressor oil                                                                                    | C/R |
| Replacement of wiper mechanism grease                                                                               | C/R |
| Inspection of door lubrication - Change when necessary                                                              | C/R |
| Inspection of lift oil - Replace when necessary                                                                     | C/R |
| Inspection and cleaning of the battery                                                                              | CL  |
| Cleaning of heating coil for defroster filter                                                                       | CL  |
| Cleaning of cooling coil for defroster filter                                                                       | CL  |
| Cleaning of defroster air filter                                                                                    | CL  |



## 120.000 miles MAINTENANCE CHECKLIST

**Periodical Maintenance:** **R:** Replace **C:** Check **C/R:** Check&Replace **CL:** Cleaning

|                                                                                                                          |   |
|--------------------------------------------------------------------------------------------------------------------------|---|
| Replacement of fuel filter                                                                                               | R |
| Replacement of Engine Oil                                                                                                | R |
| Replace engine oil filter                                                                                                | R |
| Replacement of cardan shaft grease                                                                                       | R |
| Replacement of Water Separator Filter                                                                                    | R |
| Replacement of fuel nozzle, pre-heater                                                                                   | R |
| Replacement of fuel pre-heater filter                                                                                    | R |
| Replacement of external air filter                                                                                       | R |
| Inspection of engine coolant anti-freeze                                                                                 | C |
| Inspection of the battery cables and connections                                                                         | C |
| Inspection of radiator pressure cap                                                                                      | C |
| Inspect differential oil level                                                                                           | C |
| Inspect differential oil for leaks                                                                                       | C |
| Inspect the fluid and fluid level in the power steering reservoir for the steering mechanism.                            | C |
| Inspect the steering mechanism for any gaps, rattling, or waddling in any part of the steering connection.               | C |
| Inspect brake system for air leaks                                                                                       | C |
| Inspect the brake pads. If the backplate and friction material thickness is less than 11 mm, the pad should be replaced. | C |
| Inspect the brake disks. If the disk thickness is less than 37 mm, the disk should be replaced.                          | C |
| Inspection of suspension connections                                                                                     | C |
| Inspection for leaks on air bellows                                                                                      | C |
| Inspect starter wires                                                                                                    | C |
| Inspect the electrolyte level and density                                                                                | C |
| Inspection of mirror connections                                                                                         | C |
| Inspect the tightness of wheel nut                                                                                       | C |
| Inspection of tire pressure                                                                                              | C |
| Inspection of spare tyre connection                                                                                      | C |

|                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------|-----|
| Inspection of the functioning of the safety mechanism of all doors                                                  | C   |
| Inspection and adjustment of trunk locks for proper functioning (with the lubrication of the door hinges and locks) | C   |
| Inspection for proper functioning, air leak, tightness, door damage                                                 | C   |
| Inspection of cooling fan belt pre-tensioner                                                                        | C   |
| Inspection of air compressor discharge lines                                                                        | C   |
| Inspection of cooling system                                                                                        | C   |
| Inspection of vibration damper, viscose                                                                             | C   |
| Radiator Hoses - Inspection                                                                                         | C   |
| Inspection of fire extinguishing system                                                                             | C   |
| Inspection of A/C belt - Change when necessary                                                                      | C/R |
| Inspection of the refrigerant - Change when necessary                                                               | C/R |
| Inspection of refrigerant dryer - Change when necessary                                                             | C/R |
| Inspection of A/C compressor oil                                                                                    | C/R |
| Replacement of wiper mechanism grease                                                                               | C/R |
| Inspection of door lubrication - Change when necessary                                                              | C/R |
| Inspection of fan drive belt - Replace when necessary                                                               | C/R |
| Inspection of lift oil - Replace when necessary                                                                     | C/R |
| Inspection and cleaning of the battery                                                                              | CL  |
| Removal of engine steam                                                                                             | CL  |
| Cleaning of heating coil for defroster filter                                                                       | CL  |
| Cleaning of cooling coil for defroster filter                                                                       | CL  |
| Cleaning of defroster air filter                                                                                    | CL  |



MENU

## 135.000 miles MAINTENANCE CHECKLIST

**Periodical Maintenance:** **R:** Replace **C:** Check **C/R:** Check&Replace **CL:** Cleaning

|                                                                                                                         |   |
|-------------------------------------------------------------------------------------------------------------------------|---|
| Replacement of fuel filter                                                                                              | R |
| Replacement of Engine Oil                                                                                               | R |
| Replace engine oil filter                                                                                               | R |
| Replacement of cardan shaft grease                                                                                      | R |
| Replacement of Water Separator Filter                                                                                   | R |
| Replacement of fuel nozzle, pre-heater                                                                                  | R |
| Replacement of fuel pre-heater filter                                                                                   | R |
| Replacement of external air filter                                                                                      | R |
| Replacement of internal air filter, every 3 maintenances                                                                | R |
| Replacement of air dry filter                                                                                           | R |
| Replacement steering oil                                                                                                | R |
| Replace steering oil filter                                                                                             | R |
| Inspection of extra coolant additive (SCA) and antifreeze concentration                                                 | R |
| Inspection of engine coolant anti-freeze                                                                                | C |
| Inspection of the battery cables and connections                                                                        | C |
| Inspection of radiator pressure cap                                                                                     | C |
| Inspect differential oil level                                                                                          | C |
| Inspect differential oil for leaks                                                                                      | C |
| Inspect the fluid and fluid level in the power steering reservoir for the steering mechanism.                           | C |
| Inspect the steering mechanism for any gaps, rattling, or waddling in any part of the steering connection.              | C |
| Inspect brake system for air leaks                                                                                      | C |
| Inspect the brake pads. If the backplate and friction material thickness is less than 11mm, the pad should be replaced. | C |
| Inspect the brake disks. If the disk thickness is less than 37 mm, the disk should be replaced.                         | C |

|                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------|-----|
| Inspection of suspension connections                                                                                | C   |
| Inspection for leaks on air bellows                                                                                 | C   |
| Inspect starter wires                                                                                               | C   |
| Inspect the electrolyte level and density                                                                           | C   |
| Inspection of mirror connections                                                                                    | C   |
| Inspect the tightness of wheel nut                                                                                  | C   |
| Inspection of tire pressure                                                                                         | C   |
| Inspection of spare tyre connection                                                                                 | C   |
| Inspection of the functioning of the safety mechanism of all doors                                                  | C   |
| Inspection and adjustment of trunk locks for proper functioning (with the lubrication of the door hinges and locks) | C   |
| Inspection for proper functioning, air leak, tightness, door damage                                                 | C   |
| Inspection of fire extinguishing system                                                                             | C   |
| Inspection of A/C belt - Change when necessary                                                                      | C/R |
| Inspection of the refrigerant - Change when necessary                                                               | C/R |
| Inspection of refrigerant dryer - Change when necessary                                                             | C/R |
| Inspection of A/C compressor oil                                                                                    | C/R |
| Replacement of wiper mechanism grease                                                                               | C/R |
| Inspection of door lubrication - Change when necessary                                                              | C/R |
| Inspection of lift oil - Replace when necessary                                                                     | C/R |
| Inspection and cleaning of the battery                                                                              | CL  |
| Cleaning of heating coil for defroster filter                                                                       | CL  |
| Cleaning of cooling coil for defroster filter                                                                       | CL  |
| Cleaning of defroster air filter                                                                                    | CL  |



## 150.000 miles MAINTENANCE CHECKLIST

**Periodical Maintenance:** **R:** Replace **C:** Check **C/R:** Check&Replace **CL:** Cleaning

|                                                                                                                          |   |
|--------------------------------------------------------------------------------------------------------------------------|---|
| Replace the transmission oil                                                                                             | R |
| Replacement of fuel filter                                                                                               | R |
| Replacement of Engine Oil                                                                                                | R |
| Replace engine oil filter                                                                                                | R |
| Replacement of cardan shaft grease                                                                                       | R |
| Replacement of Water Separator Filter                                                                                    | R |
| Replacement of fuel nozzle, pre-heater                                                                                   | R |
| Replacement of fuel pre-heater filter                                                                                    | R |
| Replacement of external air filter                                                                                       | R |
| Replacement of fuel pre-heater pump repair set                                                                           | R |
| Replacement of fuel pre-heater pump                                                                                      | R |
| Replacement of transmission oil filter                                                                                   | R |
| Inspection of engine coolant anti-freeze                                                                                 | C |
| Inspection of the battery cables and connections                                                                         | C |
| Inspection of radiator pressure cap                                                                                      | C |
| Inspect differential oil level                                                                                           | C |
| Inspect differential oil for leaks                                                                                       | C |
| Inspect the fluid and fluid level in the power steering reservoir for the steering mechanism.                            | C |
| Inspect the steering mechanism for any gaps, rattling, or waddling in any part of the steering connection.               | C |
| Inspect brake system for air leaks                                                                                       | C |
| Inspect the brake pads. If the backplate and friction material thickness is less than 11 mm, the pad should be replaced. | C |
| Inspect the brake disks. If the disk thickness is less than 37 mm, the disk should be replaced.                          | C |
| Inspection of suspension connections                                                                                     | C |
| Inspection for leaks on air bellows                                                                                      | C |
| Inspect starter wires                                                                                                    | C |
| Inspect the electrolyte level and density                                                                                | C |

|                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------|-----|
| Inspection of mirror connections                                                                                    | C   |
| Inspect the tightness of wheel nut                                                                                  | C   |
| Inspection of tire pressure                                                                                         | C   |
| Inspection of spare tyre connection                                                                                 | C   |
| Inspection of the functioning of the safety mechanism of all doors                                                  | C   |
| Inspection and adjustment of trunk locks for proper functioning (with the lubrication of the door hinges and locks) | C   |
| Inspection for proper functioning, air leak, tightness, door damage                                                 | C   |
| Inspection of cooling fan belt pre-tensioner                                                                        | C   |
| Inspection of air compressor discharge lines                                                                        | C   |
| Adjust of the Overhead Set                                                                                          | C   |
| Inspection of fire extinguishing system                                                                             | C   |
| Inspection of A/C belt - Change when necessary                                                                      | C/R |
| Inspection of the refrigerant - Change when necessary                                                               | C/R |
| Inspection of refrigerant dryer - Change when necessary                                                             | C/R |
| Inspection of A/C compressor oil                                                                                    | C/R |
| Replacement of wiper mechanism grease                                                                               | C/R |
| Inspection of door lubrication - Change when necessary                                                              | C/R |
| Inspection of fan drive belt - Replace when necessary                                                               | C/R |
| Inspection of lift oil - Replace when necessary                                                                     | C/R |
| Inspection and cleaning of the battery                                                                              | CL  |
| Cleaning of heating coil for defroster filter                                                                       | CL  |
| Cleaning of cooling coil for defroster filter                                                                       | CL  |
| Cleaning of defroster air filter                                                                                    | CL  |

## 165.000 miles MAINTENANCE CHECKLIST

**Periodical Maintenance:** **R:** Replace **C:** Check **C/R:** Check&Replace **CL:** Cleaning

|                                                                                                                         |   |
|-------------------------------------------------------------------------------------------------------------------------|---|
| Replacement of fuel filter                                                                                              | R |
| Replacement of Engine Oil                                                                                               | R |
| Replace engine oil filter                                                                                               | R |
| Replacement of cardan shaft grease                                                                                      | R |
| Replacement of Water Separator Filter                                                                                   | R |
| Replacement of fuel nozzle, pre-heater                                                                                  | R |
| Replacement of fuel pre-heater filter                                                                                   | R |
| Replacement of external air filter                                                                                      | R |
| Inspection of engine coolant anti-freeze                                                                                | C |
| Inspection of the battery cables and connections                                                                        | C |
| Inspection of radiator pressure cap                                                                                     | C |
| Inspect differential oil level                                                                                          | C |
| Inspect differential oil for leaks                                                                                      | C |
| Inspect the fluid and fluid level in the power steering reservoir for the steering mechanism.                           | C |
| Inspect the steering mechanism for any gaps, rattling, or waddling in any part of the steering connection.              | C |
| Inspect brake system for air leaks                                                                                      | C |
| Inspect the brake pads. If the backplate and friction material thickness is less than 11mm, the pad should be replaced. | C |
| Inspect the brake disks. If the disk thickness is less than 37 mm, the disk should be replaced.                         | C |
| Inspection of suspension connections                                                                                    | C |
| Inspection for leaks on air bellows                                                                                     | C |

|                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------|-----|
| Inspect starter wires                                                                                               | C   |
| Inspect the electrolyte level and density                                                                           | C   |
| Inspection of mirror connections                                                                                    | C   |
| Inspect the tightness of wheel nut                                                                                  | C   |
| Inspection of tire pressure                                                                                         | C   |
| Inspection of spare tyre connection                                                                                 | C   |
| Inspection of the functioning of the safety mechanism of all doors                                                  | C   |
| Inspection and adjustment of trunk locks for proper functioning (with the lubrication of the door hinges and locks) | C   |
| Inspection for proper functioning, air leak, tightness, door damage                                                 | C   |
| Inspection of fire extinguishing system                                                                             | C   |
| Inspection of A/C belt - Change when necessary                                                                      | C/R |
| Inspection of the refrigerant - Change when necessary                                                               | C/R |
| Inspection of refrigerant dryer - Change when necessary                                                             | C/R |
| Inspection of A/C compressor oil                                                                                    | C/R |
| Replacement of wiper mechanism grease                                                                               | C/R |
| Inspection of door lubrication - Change when necessary                                                              | C/R |
| Inspection and cleaning of the battery                                                                              | CL  |
| Cleaning of heating coil for defroster filter                                                                       | CL  |
| Cleaning of cooling coil for defroster filter                                                                       | CL  |
| Cleaning of defroster air filter                                                                                    | CL  |



## 180.000 miles MAINTENANCE CHECKLIST

**Periodical Maintenance:** **R:** Replace **C:** Check **C/R:** Check&Replace **CL:** Cleaning

|                                                                                                                          |   |
|--------------------------------------------------------------------------------------------------------------------------|---|
| Differential oil replacement                                                                                             | R |
| Replacement of fuel filter                                                                                               | R |
| Replacement of Engine Oil                                                                                                | R |
| Replace engine oil filter                                                                                                | R |
| Replacement of cardan shaft grease                                                                                       | R |
| Replacement of Water Separator Filter                                                                                    | R |
| Replacement of fuel nozzle, pre-heater                                                                                   | R |
| Replacement of fuel pre-heater filter                                                                                    | R |
| Replacement of external air filter                                                                                       | R |
| Replacement of internal air filter, every 3 maintenances                                                                 | R |
| Replacement of air dry filter                                                                                            | R |
| Replacement steering oil                                                                                                 | R |
| Replace steering oil filter                                                                                              | R |
| Inspection of extra coolant additive (SCA) and antifreeze concentration                                                  | R |
| Replacement of aftertreatment diesel exhaust fluid dosing unit filter                                                    | R |
| Inspection of engine coolant anti-freeze                                                                                 | C |
| Inspection of the battery cables and connections                                                                         | C |
| Inspection of radiator pressure cap                                                                                      | C |
| Inspect differential oil level                                                                                           | C |
| Inspect differential oil for leaks                                                                                       | C |
| Inspect the fluid and fluid level in the power steering reservoir for the steering mechanism.                            | C |
| Inspect the steering mechanism for any gaps, rattling, or waddling in any part of the steering connection.               | C |
| Inspect brake system for air leaks                                                                                       | C |
| Inspect the brake pads. If the backplate and friction material thickness is less than 11 mm, the pad should be replaced. | C |
| Inspect the brake disks. If the disk thickness is less than 37 mm, the disk should be replaced.                          | C |
| Inspection of suspension connections                                                                                     | C |
| Inspection for leaks on air bellows                                                                                      | C |
| Inspect starter wires                                                                                                    | C |

|                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------|-----|
| Inspect the electrolyte level and density                                                                           | C   |
| Inspection of mirror connections                                                                                    | C   |
| Inspect the tightness of wheel nut                                                                                  | C   |
| Inspection of tire pressure                                                                                         | C   |
| Inspection of spare tyre connection                                                                                 | C   |
| Inspection of the functioning of the safety mechanism of all doors                                                  | C   |
| Inspection and adjustment of trunk locks for proper functioning (with the lubrication of the door hinges and locks) | C   |
| Inspection for proper functioning, air leak, tightness, door damage                                                 | C   |
| Inspection of cooling fan belt pre-tensioner                                                                        | C   |
| Inspection of air compressor discharge lines                                                                        | C   |
| Inspection of cooling system                                                                                        | C   |
| Inspection of vibration damper, viscose                                                                             | C   |
| Radiator Hoses - Inspection                                                                                         | C   |
| Inspection of fire extinguishing system                                                                             | C   |
| Inspection of A/C belt - Change when necessary                                                                      | C/R |
| Inspection of the refrigerant - Change when necessary                                                               | C/R |
| Inspection of refrigerant dryer - Change when necessary                                                             | C/R |
| Inspection of A/C compressor oil                                                                                    | C/R |
| Replacement of wiper mechanism grease                                                                               | C/R |
| Inspection of door lubrication - Change when necessary                                                              | C/R |
| Inspection of fan drive belt - Replace when necessary                                                               | C/R |
| Inspection of lift oil - Replace when necessary                                                                     | C/R |
| Inspection and cleaning of the battery                                                                              | CL  |
| Removal of engine steam                                                                                             | CL  |
| Cleaning of heating coil for defroster filter                                                                       | CL  |
| Cleaning of cooling coil for defroster filter                                                                       | CL  |
| Cleaning of defroster air filter                                                                                    | CL  |



MENU



## 195.000 miles MAINTENANCE CHECKLIST

**Periodical Maintenance:** **R:** Replace **C:** Check **C/R:** Check&Replace **CL:** Cleaning

|                                                                                                                        |   |
|------------------------------------------------------------------------------------------------------------------------|---|
| Replacement of the propeller shaft grease                                                                              | R |
| Replacement of the air filter external filter                                                                          | R |
| Replacement of the wiper mechanism grease                                                                              | R |
| Replacement of the fuel nozzle, preheater                                                                              | R |
| Replacement of the fuel filter, preheater                                                                              | R |
| Check of the coolant level                                                                                             | C |
| Check of the Radiator Pressure Cap - test                                                                              | C |
| Check of the Charge-Air Cooler                                                                                         | C |
| Check of the brake system for air leaks                                                                                | C |
| Check of the brake pads. If the backplate and friction material thickness is less than 11 mm, the pad must be replaced | C |
| Check of the brake discs. If the disc thickness is less than 37 mm, the disc must be replaced                          | C |
| Check of the suspension mountings                                                                                      | C |
| Check of the air bellows for leaks                                                                                     | C |
| Check of the wiring of starter                                                                                         | C |
| Check of the battery poles                                                                                             | C |
| Check of the electrolyte level and density                                                                             | C |
| Check of the mirror connections                                                                                        | C |

|                                                                                                                                                                       |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Check of the wheel nuts tightness                                                                                                                                     | C   |
| Check of the tire pressure                                                                                                                                            | C   |
| Check of the spare tire connection                                                                                                                                    | C   |
| Check of the function of all doors security fixings                                                                                                                   | C   |
| Checking and adjustment of luggage lids locks function (with greasing the lids hinges and locks )                                                                     | C   |
| Check of the function, air leakage, tightness, damage of door                                                                                                         | C   |
| Inspection of door settings (and setting if required)                                                                                                                 | C/R |
| Check of the A/C belt check - change in need                                                                                                                          | C/R |
| Check of the air filter A/C - change in need                                                                                                                          | C/R |
| Check of the gas A/C- change in need                                                                                                                                  | C/R |
| Check of the air dryer A/C- change in need                                                                                                                            | C/R |
| Check of the oil A/C compressor- change in need                                                                                                                       | C/R |
| Check of the fan belt check - change in need                                                                                                                          | C/R |
| Clean of the filter of defroster                                                                                                                                      | CL  |
| Clean the E-fan radiator fins in case of a blockage. It is recommended that low-pressure water be used (a garden hose, not a pressure washer) to remove the blockage. | CL  |

## 210.000 miles MAINTENANCE CHECKLIST

**Periodical Maintenance:** **R:** Replace **C:** Check **C/R:** Check&Replace **CL:** Cleaning

|                                                                                                                          |   |
|--------------------------------------------------------------------------------------------------------------------------|---|
| Replacement of fuel filter                                                                                               | R |
| Replacement of Engine Oil                                                                                                | R |
| Replace engine oil filter                                                                                                | R |
| Replacement of cardan shaft grease                                                                                       | R |
| Replacement of Water Separator Filter                                                                                    | R |
| Replacement of fuel nozzle, pre-heater                                                                                   | R |
| Replacement of fuel pre-heater filter                                                                                    | R |
| Replacement of external air filter                                                                                       | R |
| Inspection of engine coolant anti-freeze                                                                                 | C |
| Inspection of the battery cables and connections                                                                         | C |
| Inspection of radiator pressure cap                                                                                      | C |
| Inspect differential oil level                                                                                           | C |
| Inspect differential oil for leaks                                                                                       | C |
| Inspect the fluid and fluid level in the power steering reservoir for the steering mechanism.                            | C |
| Inspect the steering mechanism for any gaps, rattling, or waddling in any part of the steering connection.               | C |
| Inspect brake system for air leaks                                                                                       | C |
| Inspect the brake pads. If the backplate and friction material thickness is less than 11 mm, the pad should be replaced. | C |
| Inspect the brake disks. If the disk thickness is less than 37 mm, the disk should be replaced.                          | C |
| Inspection of suspension connections                                                                                     | C |
| Inspection for leaks on air bellows                                                                                      | C |
| Inspect starter wires                                                                                                    | C |
| Inspect the electrolyte level and density                                                                                | C |

|                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------|-----|
| Inspection of mirror connections                                                                                    | C   |
| Inspect the tightness of wheel nut                                                                                  | C   |
| Inspection of tire pressure                                                                                         | C   |
| Inspection of spare tyre connection                                                                                 | C   |
| Inspection of the functioning of the safety mechanism of all doors                                                  | C   |
| Inspection and adjustment of trunk locks for proper functioning (with the lubrication of the door hinges and locks) | C   |
| Inspection for proper functioning, air leak, tightness, door damage                                                 | C   |
| Inspection of fire extinguishing system                                                                             | C   |
| Inspection of lift oil - Replace when necessary                                                                     | C/R |
| Inspection of A/C belt - Change when necessary                                                                      | C/R |
| Inspection of the refrigerant - Change when necessary                                                               | C/R |
| Inspection of refrigerant dryer - Change when necessary                                                             | C/R |
| Inspection of A/C compressor oil                                                                                    | C/R |
| Replacement of wiper mechanism grease                                                                               | C/R |
| Inspection of door lubrication - Change when necessary                                                              | C/R |
| Inspection and cleaning of the battery                                                                              | CL  |
| Cleaning of aftertreatment diesel particulate filter                                                                | CL  |
| Cleaning of heating coil for defroster filter                                                                       | CL  |
| Cleaning of cooling coil for defroster filter                                                                       | CL  |
| Cleaning of defroster air filter                                                                                    | CL  |



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## TEMSA Emission-Related Warranty

(a) General. TEMSA warrants to Buyer and each subsequent purchaser that the Coach, including all parts of its emission control system, meets two conditions:

1. It is designed, built, and equipped so it conforms at the time of sale to Buyer with the requirements of 40 CFR Part 1037.
2. It is free from defects in materials and workmanship that cause the Coach to fail to conform to the requirements of 40 CFR Part 1037 during the applicable warranty period

The above warranty will be referred to as the "TEMSA Emission Warranty" in this document.

(b) The warranty period of the TEMSA Emission Warranty is as follows:

| Vehicle        | California and states that have adopted California standards | Other states           |
|----------------|--------------------------------------------------------------|------------------------|
| 2026MY vehicle | 5 years, 100,000 miles                                       | 5 years, 100,000 miles |

All durations are from the date of delivery to the first retail purchaser as indicated on the Retail Delivery Advice Form

3. For tires, the TEMSA emission-related warranty period is two (2) years or 24,000 miles from the date of delivery to the first retail purchaser whichever first occurs, as indicated on the Retail Delivery Advice Form

The tires installed on this vehicle at the factory as original equipment are certified for Greenhouse Gas and Fuel Efficiency regulations. Replacement tires must be of equal or lower rolling resistance level. Consult with your tire supplier(s) for appropriate replacement tires. TEMSA may deny warranty coverage if the tires have failed because of abuse, collision, neglect, improper maintenance, unapproved modifications, or unauthorized modification or recall

4. For wheels, the TEMSA emission-related warranty period is five (5) years or 100,000 miles from the date of delivery to the first retail purchaser whichever first occurs, as indicated on the Retail Delivery Advice Form

The wheels installed on this vehicle at the factory as original equipment are certified for Greenhouse Gas and Fuel Efficiency regulations. Replacement wheels must be properly load-rated and of equal or lower weight. Consult TEMSA for appropriate replacement wheels. TEMSA may deny warranty coverage if the wheels have failed because of abuse, collision, neglect, improper maintenance, unapproved modifications, or unauthorized modification or recall.

5. For air conditioning systems, the TEMSA emission-related warranty period is five (5) years or 100,000 miles from the date of delivery to the first retail purchaser whichever first occurs, as indicated on the Retail Delivery Advice Form

Air Conditioning System Related Parts: The TEMSA emission-related warranty covers all components whose failure would increase a vehicle's emissions of air conditioning refrigerants. Contact TEMSA for information on the specific emission related parts/materials that are covered on your vehicle

## TEMSA Emission-Related Warranty

6. For air conditioning systems, five (5) years or 100,000 miles from the date of delivery to the first retail purchaser whichever first occurs, as indicated on the Retail Delivery Advice Form

Air Conditioning System Related Parts: The emission-related warranty covers all components whose failure would increase a vehicle's emissions of air conditioning refrigerants.

(c) Warranty Exclusions. The TEMSA emission warranty does not cover any failures resulting from any improper maintenance or use, as described in 40 CFR §1068.115.

(d) Emission Controls and Emission System Related Parts: Covered by Seller's Limited Warranty as and only to the extent they are required to be covered by a vehicle manufacturer pursuant to the laws pertaining to the warranties applicable to emissions controls or emission system-related parts in effect at the date of manufacture, including the TEMSA emission-related warranty as described in 40 CFR §1068.115.

(e) Warranty Service

1. To obtain service under this warranty service, present the vehicle to an Authorized TEMSA Dealer or Distributor for inspection promptly upon discovering an item or concern.

2. To obtain service under the Engine and Aftertreatment warranty service, present the vehicle to an Authorized Cummins Dealer or Service Provider promptly upon discovering an item or concern. Cummins authorized dealers or distributors authorized to repair emissions-related components or systems may be found by reference to <https://www.cummins.com/locations>



MENU



The emission control system warranty applies to diesel and spark-ignited (SI) alternate fueled on-highway engines marketed by Cummins that are used in the United States\* and Canada.

On-highway engines are identified by the emissions statement on the engine data plate.

**Note :** \*United States includes American Samoa, the Commonwealth of Northern Mariana Islands, Guam, Puerto Rico and the U.S. Virgin Islands.

## Coverage

| Emission Control System Warranty                                                                                                                                                                        |                                                                                                   |                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------|
| Application                                                                                                                                                                                             | Coverage<br>(Whichever of the two periods<br>(A) or (B) is longer)                                | What is Covered?                           |
| <b>EPA Certified</b><br>A. Apply to vehicles registered in the United States and Canada, except California.<br>B. Apply to Federal Government automotive vehicles registered by the Federal Government. | A. 5 years/100,000 miles (160,935 km) (1) <b>OR</b><br>B. The Base Engine Warranty                | Specific Failures (see tables that follow) |
| <b>California Air Resources Board (CARB) Certified</b><br>A. Apply to vehicles registered in CARB states                                                                                                | A. 5 years/100,000 miles (160,935 km)/3,000 hours (1)(2) <b>OR</b><br>B. The Base Engine Warranty |                                            |

**Emission Control System Warranty**

1. Whichever occurs first, after the Warranty start date. For on-highway BLPG engines used in nonroad applications, Coverage is 5 years/3,500 hours.
2. Hour limitation applies to CARB Coverage and must be verified using the INSITE™ ECM image

The **warranty start date** is the date of delivery of the engine to the first user, the first use of the engine in a leased, rented or loaned unit. There is no demonstration period for on-highway applications.

### Vehicle Original Equipment Manufacturer (OEM) Supplied Component List

Listed below are components that are typically supplied by the OEM and therefore need to be serviced and warranted by the OEM, unless the component is supplied by Cummins. If the component is supplied by the OEM, please refer to the OEM for the warranty process for the following components:

**Note :** Vehicle OEM supplied covered component lists are based/administered on generic component noun names and not fail codes:

|                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Air Handling System and Associated Plumbing</b> <ul style="list-style-type: none"> <li>• Ambient Air Temperature Sensor</li> <li>• Charge Air Cooler and Associated Plumbing</li> </ul>                                                                                 | <b>Exhaust System (Upstream of Last Aftertreatment)</b> <ul style="list-style-type: none"> <li>• Exhaust Gas Piping from Turbocharger out to the Last Aftertreatment Device</li> </ul>                                                                                                                                                                            |
| <b>Compressor Air System and Associated Plumbing</b> <ul style="list-style-type: none"> <li>• Hydrocarbon Doser Pressure Regulator/Protection Valve</li> <li>• Plumbing from the Hydrocarbon Doser Pressure Regulator/Protection Valve to the Hydrocarbon Doser</li> </ul> | <b>Exhaust Aftertreatment</b> <ul style="list-style-type: none"> <li>• DEF Tank Heater Coolant Control Valve</li> <li>• DEF Line Heater Control Relay</li> <li>• DEF Temperature Sensors</li> <li>• DEF Tank/Lines Heating Elements of Heat Exchanger and pipe</li> <li>• DEF Tank and Lines</li> <li>• DEF Level Sensor</li> <li>• DEF Quality Sensor</li> </ul> |
| <b>Engine Electronic Components</b> <ul style="list-style-type: none"> <li>• Wire Harness Circuits Connected at Both Ends to Emissions Warrantable Components</li> </ul>                                                                                                   | <b>Vehicle Electronic Components</b> <ul style="list-style-type: none"> <li>• Diesel Exhaust Fluid (DEF) Lamp Only</li> <li>• On Board Diagnostic (OBD) Malfunction Indicator Lamp (MIL) Only</li> <li>• OBD Connector</li> </ul>                                                                                                                                 |

## EPA Emission Warranty Component List

Listed below are the components covered under the EPA Emissions Control System Warranty when failures of these components are caused through normal use and service. Failures caused by not following the maintenance guidelines are not covered including, but not limited to, plugged air and fuel filters. A failed component may receive one of the following methods of coverage depending upon the listed information in the component tables:

**1. Failure of a component with a listed fail code WITHOUT a listed fault code:**

- The listed fail codes cover the replacement of the component under the EPA Emissions Control System Warranty if found to be the root cause of a failure as indicated by a Cummins repair manual, Cummins troubleshooting tree, or other Cummins approved document.

**2. OR, Failure of a component with a listed fail code WITH a listed fault code:**

- The listed fail codes with associated listed fault codes cover the replacement and/or repair of the component unless otherwise specified that coverage is excluded with the listed fault code. The root cause of a failure associated with the listed fault code must be the fail code listed. Other requirements that apply to this method of coverage are as follows:
  - The occurrence of the fault code must be within the last 25 engine hours.
  - The INSITE™ job image report retrieved from the ECM at the time of diagnosis prior to making any repairs, recalibrations, or adjustments to the ECM calibration contains the fault code. (The INSITE™ job image report does not have to be submitted as part of the claim unless separately requested).
  - The failed component caused the listed fault code to be logged within the ECM, as indicated using Cummins published troubleshooting instructions.

**Note :** Where applicable with covered components, associated plumbing, mounting hardware, gaskets, and o-rings are covered.

**Note :** When filing an EPA Emissions Control System Warranty claim, use the failed component 4 digit fail code with an EW fail mode.

**Note :** All emission warranty claims must follow the minimum claim documentation requirements outlined in Warranty Administration Manual Procedure 111-512-004.

**Note :** For all EPA Emissions Control System Warranty claims, the repair location is required to print out or electronically save the INSITE™ job image report (all options) retrieved from the ECM at date of failure prior to making any repairs, recalibrations or adjustments to the ECM calibration. This data is to be retained for a period of at least one year after credit has been issued for the claim. Failure to do so may result in claim denial or claim bill-back at the time of Warranty Compliance Review. ECM fault codes are to be cleared once the repair has been completed.

### Limitations

The **emission control warranty covers** the following to repair the damage to the engine caused by a warrantable failure:

- Parts
- Labor
- Consumables, when not reusable

**Note :** Towing, travel, engine removal and reinstallation, and damage to the equipment (vehicle) are not covered.

**Note :** Where parts are scheduled for replacement as required maintenance, Emissions warranty applies only until the first scheduled maintenance interval as specified in the applicable Operation and Maintenance manual.

| EPA Diesel and Spark-Ignited Alternate Fuel (ISB/ISB6.7 G/ISC/ISL/ISL G/ISX11.9/ISX12/ISX12 G/ISX15/ISV/V5.0) |                    |                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aftertreatment System                                                                                         |                    |                                                                                                                                                                                          |
| Component                                                                                                     | Fail Code          | Fault Code                                                                                                                                                                               |
| 3 Way Catalyst                                                                                                | NY                 |                                                                                                                                                                                          |
| Aftertreatment Electrical Connections                                                                         | HYEC               |                                                                                                                                                                                          |
| Aftertreatment Fuel Drain Valve                                                                               | HYDV               |                                                                                                                                                                                          |
| Aftertreatment Fuel Injector/Regulator                                                                        | HYBD               |                                                                                                                                                                                          |
| Aftertreatment Fuel Pressure Sensor                                                                           | EAVS               | Coverage not applicable for failures with fault codes 2728, 2881                                                                                                                         |
| Aftertreatment Fuel Shut-off Valve                                                                            | HYCO               |                                                                                                                                                                                          |
| Aftertreatment Injector Manifold                                                                              | HYMN               |                                                                                                                                                                                          |
| Aftertreatment Inlet and Outlet Modules                                                                       | NYIN, NYHC or NYOT |                                                                                                                                                                                          |
| Aftertreatment Temperature Interface Module                                                                   | EUSC or EUPF       |                                                                                                                                                                                          |
| Aftertreatment Temperature Sensors                                                                            | ETCT               | Coverage not applicable for failures with fault codes 1965, 1966, 1968, 1969, 1972, 1973, 2742, 2743, 3164, 3165, 3229, 3231, 3235, 3236, 3251, 3252, 3253, 3254, 3255, 3256, 3311, 3312 |



| EPA Diesel and Spark-Ignited Alternate Fuel (ISB/ISB6.7 G/ISC/ISL/ISL G/ISX11.9/ISX12/ISX12 G/ISX15/ISV/V5.0) |                          |                                                                                      |
|---------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------|
| Decomposition Tube                                                                                            | USDT                     |                                                                                      |
| DEF Dosing Controller (DCU)                                                                                   | US                       |                                                                                      |
| DEF Dosing Unit (Pump)                                                                                        | US                       |                                                                                      |
| DEF Dosing Valve                                                                                              | US                       |                                                                                      |
| Diesel Oxidation Catalyst                                                                                     | NY                       |                                                                                      |
| Diesel Particulate Filter (except for ash maintenance)                                                        | NY                       | Coverage is not applicable for failures with fault code 2777                         |
| Diesel Particulate Filter Differential Pressure Sensor                                                        | EADF                     | Coverage not applicable for failures with fault codes 1921, 1922, 1981, 2639         |
| NH3 Sensor                                                                                                    | YN                       |                                                                                      |
| NOx Sensors                                                                                                   | YN                       |                                                                                      |
| Aftertreatment Particulate Sensor                                                                             | YNSM                     |                                                                                      |
| SCR Catalyst                                                                                                  | US                       |                                                                                      |
| Air Handling                                                                                                  |                          |                                                                                      |
| Component                                                                                                     | Fail Code                | Fault Code                                                                           |
| Barometric Air Pressure Sensor                                                                                | EACB or EACD             |                                                                                      |
| Exhaust Gas Pressure Sensor                                                                                   | EATP or EAEB             | Coverage not applicable for failures with fault code 2764                            |
| Exhaust Manifold                                                                                              | IE                       |                                                                                      |
| Exhaust Up-Pipe                                                                                               | IEEB, IEEP or IEHS       |                                                                                      |
| Glow Plug                                                                                                     | GLGP                     |                                                                                      |
| Glow Plug Control Module                                                                                      | GLGC                     |                                                                                      |
| Grid Heater                                                                                                   | IHGR                     |                                                                                      |
| Humidity Sensor                                                                                               | EOBD                     |                                                                                      |
| Intake Air Throttle Actuator                                                                                  | IN                       |                                                                                      |
| Intake Manifold                                                                                               | IN                       |                                                                                      |
| Intake Manifold Air Temperature Sensor                                                                        | ETIB                     | Coverage not applicable for failures with fault codes 155, 2964, 3385                |
| Intake Manifold Temperature/Pressure Sensor                                                                   | EABB, EAOB, EEBT or EAMB | Coverage not applicable for failures with fault codes 124, 125, 155, 488, 2964, 2973 |

| EPA Diesel and Spark-Ignited Alternate Fuel (ISB/ISB6.7 G/ISC/ISL/ISL G/ISX11.9/ISX12/ISX12 G/ISX15/ISV/V5.0) |                           |                                                                            |
|---------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------|
| Mass Air Flow Sensor (SI Only)                                                                                | EBMS                      |                                                                            |
| Oxygen Sensor                                                                                                 | EOSW                      |                                                                            |
| Throttle Actuator                                                                                             | NCTA                      |                                                                            |
| Turbocharger Actuator                                                                                         | THAC                      |                                                                            |
| Turbocharger Assembly                                                                                         | THAS                      |                                                                            |
| Turbocharger Compressor Inlet Air Temperature Sensor                                                          | ETTB                      |                                                                            |
| Turbocharger Speed Sensor                                                                                     | ELTS, ELTC or ELTW        |                                                                            |
| Base Engine System                                                                                            |                           |                                                                            |
| Component                                                                                                     | Fail Code                 | Fault Code                                                                 |
| Camshaft                                                                                                      | BICM, BVCM                |                                                                            |
| Camshaft Injector Lobe                                                                                        | BICJ, BCCJ                |                                                                            |
| Camshaft Valve Lobe                                                                                           | BCCL, BVCL                |                                                                            |
| Coolant Temperature Sensor                                                                                    | ETCB                      | Coverage not applicable for failures with fault codes 146, 151, 2789, 2963 |
| Crankcase Breather                                                                                            | BB (except BBEL)          |                                                                            |
| Cylinder Head (SI Only) and Cylinder Valves (SI Only)                                                         | CHCA or CHIV              |                                                                            |
| Engine Oil Pressure Sensor                                                                                    | EAOB                      | Coverage not applicable for failures with fault codes 143, 415             |
| Engine Oil Temperature Sensor                                                                                 | ETOB                      | Coverage not applicable for failures with fault codes 214, 421             |
| Engine Oil Temperature/Pressure Sensor                                                                        | EEAA                      |                                                                            |
| Engine Speed, Position Sensor, Cam Position Sensor                                                            | ELEB, ELCB, ELSB, or ELEC |                                                                            |
| Exhaust Valve                                                                                                 | CHEV                      |                                                                            |
| Static Cam Timing                                                                                             | BC                        |                                                                            |
| EGR System                                                                                                    |                           |                                                                            |
| Component                                                                                                     | Fail Code                 | Fault Code                                                                 |
| EGR Cooler                                                                                                    | IRCL                      |                                                                            |

| EPA Diesel and Spark-Ignited Alternate Fuel (ISB/ISB6.7 G/ISC/ISL/ISL G/ISX11.9/ISX12/ISX12 G/ISX15/ISV/V5.0) |                    |                                                                  |
|---------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------|
| Secondary Fuel Pressure/Temperature Sensor                                                                    | EEFB               |                                                                  |
| Secondary Fuel Pressure Regulator (SI Only)                                                                   | NRPR               |                                                                  |
| Ignition System                                                                                               |                    |                                                                  |
| Component                                                                                                     | Fail Code          | Fault Code                                                       |
| Spark Plugs                                                                                                   | NISP, NISX         |                                                                  |
| Ignition Coils                                                                                                | NICO               |                                                                  |
| Ignition Control Module                                                                                       | NICM               |                                                                  |
| EPA Diesel for EPA2024 (X12, L9 and B6.7)                                                                     |                    |                                                                  |
| Aftertreatment System                                                                                         |                    |                                                                  |
| Component                                                                                                     | Fail Code          | Fault Code                                                       |
| Aftertreatment Electrical Connections                                                                         | HYEC               |                                                                  |
| Aftertreatment Fuel Drain Valve                                                                               | HYDV               |                                                                  |
| Aftertreatment Fuel Injector/Regulator                                                                        | HYBD               |                                                                  |
| Aftertreatment Fuel Pressure Sensor                                                                           | EAVS               | Coverage not applicable for failures with fault codes 2728, 2881 |
| Aftertreatment Fuel Shut-off Valve                                                                            | HYCO               |                                                                  |
| Aftertreatment Injector Manifold                                                                              | HYMN               |                                                                  |
| Aftertreatment Inlet and Outlet Modules                                                                       | NYIN, NYHC or NYOT |                                                                  |
| Aftertreatment Temperature Interface Module                                                                   | EUSC or EUPF       |                                                                  |



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| EPA Diesel and Spark-Ignited Alternate Fuel (ISB/ISB6.7 G/ISC/ISL/ISL G/ISX11.9/ISX12/ISX12 G/ISX15/ISV/V5.0) |                    |                                                                  |
|---------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------|
| Secondary Fuel Pressure/Temperature Sensor                                                                    | EEFB               |                                                                  |
| Secondary Fuel Pressure Regulator (SI Only)                                                                   | NRPR               |                                                                  |
| Ignition System                                                                                               |                    |                                                                  |
| Component                                                                                                     | Fail Code          | Fault Code                                                       |
| Spark Plugs                                                                                                   | NISP, NISX         |                                                                  |
| Ignition Coils                                                                                                | NICO               |                                                                  |
| Ignition Control Module                                                                                       | NICM               |                                                                  |
| EPA Diesel for EPA2024 ( X12, L9 and B6.7)                                                                    |                    |                                                                  |
| Aftertreatment System                                                                                         |                    |                                                                  |
| Component                                                                                                     | Fail Code          | Fault Code                                                       |
| Aftertreatment Electrical Connections                                                                         | HYEC               |                                                                  |
| Aftertreatment Fuel Drain Valve                                                                               | HYDV               |                                                                  |
| Aftertreatment Fuel Injector/Regulator                                                                        | HYBD               |                                                                  |
| Aftertreatment Fuel Pressure Sensor                                                                           | EAVS               | Coverage not applicable for failures with fault codes 2728, 2881 |
| Aftertreatment Fuel Shut-off Valve                                                                            | HYCO               |                                                                  |
| Aftertreatment Injector Manifold                                                                              | HYMN               |                                                                  |
| Aftertreatment Inlet and Outlet Modules                                                                       | NYIN, NYHC or NYOT |                                                                  |
| Aftertreatment Temperature Interface Module                                                                   | EUSC or EUPF       |                                                                  |

| EPA Diesel for EPA2024 (X12, L9 and B6.7)              |                    |                                                                                                                                                                                          |
|--------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aftertreatment Temperature Sensors                     | ETCT               | Coverage not applicable for failures with fault codes 1965, 1966, 1968, 1969, 1972, 1973, 2742, 2743, 3164, 3165, 3229, 3231, 3235, 3236, 3251, 3252, 3253, 3254, 3255, 3256, 3311, 3312 |
| Decomposition Tube                                     | USDT               |                                                                                                                                                                                          |
| DEF Dosing Controller (DCU)                            | US                 |                                                                                                                                                                                          |
| DEF Dosing Unit (Pump)                                 | US                 |                                                                                                                                                                                          |
| DEF Dosing Valve                                       | US                 |                                                                                                                                                                                          |
| Diesel Oxidation Catalyst                              | NY                 |                                                                                                                                                                                          |
| Diesel Particulate Filter (except for ash maintenance) | NY                 | Coverage is not applicable for failures with fault code 2777                                                                                                                             |
| Diesel Particulate Filter Differential Pressure Sensor | EADF               | Coverage not applicable for failures with fault codes 1921, 1922, 1981, 2639                                                                                                             |
| NOx Sensors                                            | YN, YF             |                                                                                                                                                                                          |
| Aftertreatment Particulate Sensor                      | YNSM               |                                                                                                                                                                                          |
| SCR Catalyst                                           | US                 |                                                                                                                                                                                          |
| Air Handling                                           |                    |                                                                                                                                                                                          |
| Component                                              | Fail Code          | Fault Code                                                                                                                                                                               |
| Barometric Air Pressure Sensor                         | EACB or EACD       |                                                                                                                                                                                          |
| Exhaust Gas Pressure Sensor                            | EATP or EAEB       | Coverage not applicable for failures with fault code 2764                                                                                                                                |
| Exhaust Manifold                                       | IE                 |                                                                                                                                                                                          |
| Exhaust Up-Pipe                                        | IEEB, IEEP or IEHS |                                                                                                                                                                                          |
| Glow Plug                                              | GLGP               |                                                                                                                                                                                          |
| Glow Plug Control Module                               | GLGC               |                                                                                                                                                                                          |
| Humidity Sensor                                        | EOBD               |                                                                                                                                                                                          |
| Intake Air Throttle Actuator                           | IN                 |                                                                                                                                                                                          |
| Intake Manifold                                        | IN                 |                                                                                                                                                                                          |
| Intake Manifold Air Temperature Sensor                 | ETIB               | Coverage not applicable for failures with fault codes 155, 2964, 3385                                                                                                                    |



MENU

| EPA Diesel for EPA2024 (X12, L9 and B6.7)              |                    |                                                                                                                                                                                          |
|--------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aftertreatment Temperature Sensors                     | ETCT               | Coverage not applicable for failures with fault codes 1965, 1966, 1968, 1969, 1972, 1973, 2742, 2743, 3164, 3165, 3229, 3231, 3235, 3236, 3251, 3252, 3253, 3254, 3255, 3256, 3311, 3312 |
| Decomposition Tube                                     | USDT               |                                                                                                                                                                                          |
| DEF Dosing Controller (DCU)                            | US                 |                                                                                                                                                                                          |
| DEF Dosing Unit (Pump)                                 | US                 |                                                                                                                                                                                          |
| DEF Dosing Valve                                       | US                 |                                                                                                                                                                                          |
| Diesel Oxidation Catalyst                              | NY                 |                                                                                                                                                                                          |
| Diesel Particulate Filter (except for ash maintenance) | NY                 | Coverage is not applicable for failures with fault code 2777                                                                                                                             |
| Diesel Particulate Filter Differential Pressure Sensor | EADF               | Coverage not applicable for failures with fault codes 1921, 1922, 1981, 2639                                                                                                             |
| NOx Sensors                                            | YN, YF             |                                                                                                                                                                                          |
| Aftertreatment Particulate Sensor                      | YNSM               |                                                                                                                                                                                          |
| SCR Catalyst                                           | US                 |                                                                                                                                                                                          |
| Air Handling                                           |                    |                                                                                                                                                                                          |
| Component                                              | Fail Code          | Fault Code                                                                                                                                                                               |
| Barometric Air Pressure Sensor                         | EACB or EACD       |                                                                                                                                                                                          |
| Exhaust Gas Pressure Sensor                            | EATP or EAEB       | Coverage not applicable for failures with fault code 2764                                                                                                                                |
| Exhaust Manifold                                       | IE                 |                                                                                                                                                                                          |
| Exhaust Up-Pipe                                        | IEEB, IEEP or IEHS |                                                                                                                                                                                          |
| Glow Plug                                              | GLGP               |                                                                                                                                                                                          |
| Glow Plug Control Module                               | GLGC               |                                                                                                                                                                                          |
| Humidity Sensor                                        | EOBD               |                                                                                                                                                                                          |
| Intake Air Throttle Actuator                           | IN                 |                                                                                                                                                                                          |
| Intake Manifold                                        | IN                 |                                                                                                                                                                                          |
| Intake Manifold Air Temperature Sensor                 | ETIB               | Coverage not applicable for failures with fault codes 155, 2964, 3385                                                                                                                    |

| EPA Diesel for EPA2024 (X12, L9 and B6.7) |                     |                                                                                                                                                           |
|-------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electronic Control System                 |                     |                                                                                                                                                           |
| Component                                 | Fail Code           | Fault Code                                                                                                                                                |
| Engine Control Module                     | EICM                |                                                                                                                                                           |
| Engine Wiring Harness                     | EXWH or EUWH        | Only applicable if the failed wire(s) is/ are connected to emissions components                                                                           |
| Aftertreatment Wiring Harness             | EUWX or EXWX        | Only applicable if the failed wire(s) were supplied by Cummins and connected to emissions components. Refer to the OEM for OEM supplied harness failures. |
| Fuel System                               |                     |                                                                                                                                                           |
| Component                                 | Fail Code           | Fault Code                                                                                                                                                |
| Fuel Control Valve                        | NCBS                |                                                                                                                                                           |
| Fuel Lines                                | FL                  |                                                                                                                                                           |
| Fuel Pressure Sensor                      | EARB or EAFB        |                                                                                                                                                           |
| Fuel Pump                                 | FHAS, FHAV, or FHPH | Coverage is only applicable with failures having these fault codes 449, 553, 559, or 1911                                                                 |
| Fueling Mixer                             | NCFM                |                                                                                                                                                           |
| Fueling/Timing Actuators                  | EKFA or EKTA        |                                                                                                                                                           |
| Injector                                  | FIAS                |                                                                                                                                                           |

### California CARB Emission Warranty Component List

Listed below are components covered by the California ARB Emission Control Warranty when failures of these components are caused through normal use and service. Failures caused by not following the maintenance guidelines are not covered including, but not limited to, plugged air and fuel filters.

**Note :** Where applicable with covered components, associated plumbing, mounting hardware, gaskets, and o-rings are covered.

**Note :** For CARB emissions warranty claims, **both** mileage **and** engine hours must be listed within the claim.



**Note :** All emission warranty claims must follow the minimum claim documentation requirements outlined in Warranty Administration Manual Procedure 111-512-004.

**Note :** For all ARB Emissions Control System Warranty claims, the repair location is required to print out or electronically save the INSITE™ job image report (all options) retrieved from the ECM at date of failure prior to making any repairs, recalibrations or adjustments to the ECM calibration. This data is to be retained for a period of at least one year after credit has been issued for the claim. Failure to do so may result in claim denial or claim bill-back at the time of Warranty Compliance Review. ECM fault codes are to be cleared once the repair has been completed.

#### Limitations

The **emission control warranty covers** the following to repair the damage to the engine caused by a warrantable failure:

- Parts
- Labor
- Consumables, when not reusable

**Note :** Towing, travel, engine removal and reinstallation, and damage to the equipment (vehicle) are not covered.

**Note :** Where parts are scheduled for replacement as required maintenance, Emissions warranty applies only until the first scheduled maintenance interval as specified in the applicable Operation and Maintenance manual.

| California CARB Diesel and Spark-Ignited Alternate Fuel (ISB/ISB6.7 G/ISC/ISL/ISL G/ISX11.9/ISX12/ISX12 G/ISX15/ISV/V5.0) |
|---------------------------------------------------------------------------------------------------------------------------|
| <b>Aftertreatment System</b>                                                                                              |
| <b>Component</b>                                                                                                          |
| 3 Way Catalyst                                                                                                            |
| Aftertreatment Electrical Connections                                                                                     |
| Aftertreatment Fuel Drain Valve                                                                                           |
| Aftertreatment Fuel Injector/Regulator                                                                                    |
| Aftertreatment Fuel Pressure Sensor                                                                                       |
| Aftertreatment Fuel Shut-off Valve                                                                                        |
| Aftertreatment Injector Manifold                                                                                          |
| Aftertreatment Inlet and Outlet Modules                                                                                   |
| Aftertreatment Temperature Interface Module                                                                               |
| Aftertreatment Temperature Sensors                                                                                        |
| Decomposition Tube                                                                                                        |
| DEF Dosing Controller (DCU)                                                                                               |
| DEF Dosing Unit (Pump)                                                                                                    |
| DEF Dosing Valve                                                                                                          |
| Diesel Oxidation Catalyst                                                                                                 |



| <b>California CARB Diesel and Spark-Ignited Alternate Fuel (ISB/ISB6.7 G/ISC/ISL/ISL G/ISX11.9/ISX12/ISX12 G/ISX15/ISV/V5.0)</b> |
|----------------------------------------------------------------------------------------------------------------------------------|
| Diesel Particulate Filter (except for ash maintenance)                                                                           |
| Diesel Particulate Filter Differential Pressure Sensor                                                                           |
| NH3 Sensor                                                                                                                       |
| NOx Sensors                                                                                                                      |
| Aftertreatment Particulate Sensor                                                                                                |
| SCR Catalyst                                                                                                                     |
| <b>Air Handling</b>                                                                                                              |
| <b>Component</b>                                                                                                                 |
| Barometric Air Pressure Sensor                                                                                                   |
| Exhaust Gas Pressure Sensor                                                                                                      |
| Exhaust Manifold                                                                                                                 |
| Exhaust Up-Pipe                                                                                                                  |
| Glow Plug                                                                                                                        |
| Glow Plug Control Module                                                                                                         |
| Grid Heater                                                                                                                      |
| Humidity Sensor                                                                                                                  |
| Intake Air Throttle Actuator                                                                                                     |
| Intake Manifold                                                                                                                  |
| Intake Manifold Air Temperature Sensor                                                                                           |
| Intake Manifold Temperature/Pressure Sensor                                                                                      |
| Mass Air Flow Sensor (SI Only)                                                                                                   |
| Oxygen Sensor                                                                                                                    |
| Throttle Actuator                                                                                                                |
| Turbocharger Actuator                                                                                                            |
| Turbocharger Assembly                                                                                                            |
| Turbocharger Compressor Inlet Air Temperature Sensor                                                                             |
| Turbocharger Speed Sensor                                                                                                        |
| <b>Base Engine System</b>                                                                                                        |
| <b>Component</b>                                                                                                                 |
| Camshaft                                                                                                                         |
| Camshaft Injector Lobe                                                                                                           |
| Camshaft Valve Lobe                                                                                                              |
| Clean Idle Sticker                                                                                                               |
| Coolant Temperature Sensor                                                                                                       |



MENU

| California CARB Diesel and Spark-Ignited Alternate Fuel (ISB/ISB6.7 G/ISC/ISL/ISL G/ISX11.9/ISX12/ISX12 G/ISX15/ISV/V5.0) |  |
|---------------------------------------------------------------------------------------------------------------------------|--|
| Crankcase Breather                                                                                                        |  |
| Cylinder Head (SI Only) and Cylinder Valves (SI Only)                                                                     |  |
| Engine Oil Pressure Sensor                                                                                                |  |
| Engine Oil Temperature Sensor                                                                                             |  |
| Engine Oil Temperature/Pressure Sensor                                                                                    |  |
| Engine Speed, Position Sensor, Cam Position Sensor                                                                        |  |
| Exhaust Valve                                                                                                             |  |
| Static Cam Timing                                                                                                         |  |
| <b>EGR System</b>                                                                                                         |  |
| <b>Component</b>                                                                                                          |  |
| EGR Cooler                                                                                                                |  |
| EGR Differential Pressure Sensor                                                                                          |  |
| EGR Mixer/Venturi                                                                                                         |  |
| EGR Temperature Sensor                                                                                                    |  |
| EGR Valve                                                                                                                 |  |
| <b>Electronic Control System</b>                                                                                          |  |
| <b>Component</b>                                                                                                          |  |
| Engine Control Module                                                                                                     |  |
| Engine Control Module Calibration                                                                                         |  |
| Engine Wiring Harness                                                                                                     |  |
| Aftertreatment Wiring Harness                                                                                             |  |
| <b>Fuel System</b>                                                                                                        |  |
| <b>Component</b>                                                                                                          |  |
| Fuel Control Valve                                                                                                        |  |
| Fuel Lines                                                                                                                |  |
| Fuel Pressure Sensor                                                                                                      |  |
| Fuel Pump                                                                                                                 |  |
| Fueling Mixer                                                                                                             |  |
| Fueling/Timing Actuators                                                                                                  |  |
| Gas Mass Flow Sensor                                                                                                      |  |
| Mixer Inlet Pressure Sensor (SI Only)                                                                                     |  |
| Secondary Fuel Pressure/Temperature Sensor                                                                                |  |
| Secondary Fuel Pressure Regulator (SI Only)                                                                               |  |
| Injector                                                                                                                  |  |

| California CARB Diesel and Spark-Ignited Alternate Fuel (ISB/ISB6.7 G/ISC/ISL/ISL G/ISX11.9/ISX12/ISX12 G/ISX15/ISV/V5.0) |
|---------------------------------------------------------------------------------------------------------------------------|
| <b>Ignition System</b>                                                                                                    |
| <b>Component</b>                                                                                                          |
| Spark Plugs                                                                                                               |
| Ignition Coils                                                                                                            |
| Ignition Control Module                                                                                                   |
| <b>California CARB Diesel for EPA2017 (X15, X12, L9 &amp; B6.7)</b>                                                       |
| <b>Aftertreatment System</b>                                                                                              |
| <b>Component</b>                                                                                                          |
| Aftertreatment Electrical Connections                                                                                     |
| Aftertreatment Fuel Drain Valve                                                                                           |
| Aftertreatment Fuel Injector/Regulator                                                                                    |
| Aftertreatment Fuel Pressure Sensor                                                                                       |
| Aftertreatment Fuel Shut-off Valve                                                                                        |
| Aftertreatment Injector Manifold                                                                                          |
| Aftertreatment Inlet and Outlet Modules                                                                                   |
| Aftertreatment Temperature Interface Module                                                                               |
| Aftertreatment Temperature Sensors                                                                                        |
| Decomposition Tube                                                                                                        |
| DEF Dosing Controller (DCU)                                                                                               |
| DEF Dosing Unit (Pump)                                                                                                    |
| DEF Dosing Valve                                                                                                          |
| Diesel Oxidation Catalyst                                                                                                 |
| Diesel Particulate Filter (except for ash maintenance)                                                                    |
| Diesel Particulate Filter Differential Pressure Sensor                                                                    |
| NH3 Sensor                                                                                                                |
| NOx Sensors                                                                                                               |
| Aftertreatment Particulate Sensor                                                                                         |
| SCR Catalyst                                                                                                              |
| <b>Air Handling</b>                                                                                                       |
| <b>Component</b>                                                                                                          |
| Barometric Air Pressure Sensor                                                                                            |
| Exhaust Gas Pressure Sensor                                                                                               |
| Exhaust Manifold                                                                                                          |
| Exhaust Up-Pipe                                                                                                           |



MENU

| EPA Diesel for EPA2024 ( X12, L9 and B6.7)           |  |
|------------------------------------------------------|--|
| Glow Plug                                            |  |
| Glow Plug Control Module                             |  |
| Humidity Sensor                                      |  |
| Intake Air Throttle Actuator                         |  |
| Intake Manifold                                      |  |
| Intake Manifold Air Temperature Sensor               |  |
| Intake Manifold Temperature/Pressure Sensor          |  |
| Oxygen Sensor                                        |  |
| Turbocharger Actuator                                |  |
| Turbocharger Assembly                                |  |
| Turbocharger Compressor Inlet Air Temperature Sensor |  |
| Turbocharger Speed Sensor                            |  |
| <b>Base Engine System</b>                            |  |
| <b>Component</b>                                     |  |
| Clean Idle Sticker                                   |  |
| Coolant Temperature Sensor                           |  |
| Crankcase Breather                                   |  |
| Engine Oil Temperature Sensor                        |  |
| Engine Oil Temperature/Pressure Sensor               |  |
| Engine Speed, Position Sensor, Cam Position Sensor   |  |
| Exhaust Valve                                        |  |
| Static Cam Timing                                    |  |
| <b>EGR System</b>                                    |  |
| <b>Component</b>                                     |  |
| EGR Cooler                                           |  |
| EGR Differential Pressure Sensor                     |  |
| EGR Mixer/Venturi                                    |  |
| EGR Temperature Sensor                               |  |
| EGR Valve                                            |  |
| <b>Electronic Control System</b>                     |  |
| <b>Component</b>                                     |  |
| Engine Control Module                                |  |
| Engine Wiring Harness                                |  |
| Aftertreatment Wiring Harness                        |  |
| <b>Fuel System</b>                                   |  |

| EPA Diesel for EPA2024 (X12, L9 and B6.7)   |
|---------------------------------------------|
| <b>Component</b>                            |
| Fuel Control Valve                          |
| Fuel Lines                                  |
| Fuel Pressure Sensor                        |
| Fuel Pump                                   |
| Fueling Mixer                               |
| Fueling/Timing Actuators                    |
| Mixer Inlet Pressure Sensor (SI Only)       |
| Secondary Fuel Pressure/Temperature Sensor  |
| Secondary Fuel Pressure Regulator (SI Only) |
| Injector                                    |

#### California Clean Idle Sticker

If the Clean Idle sticker is missing, peeling, or damaged under certain conditions, the failure is considered non-warrantable.

Conditions considered non-warrantable include, but are not limited to, damage caused by the following:

- Road Debris, such as rocks, bugs and sand
- Power/Pressure Washing
- Buffing/Waxing
- Tampering with Sticker
- Improper Installation

The California ARB Clean Idle sticker can be cleaned with a non-abrasive household cleaner.

The recommended locations for the California ARB Clean Idle sticker to be placed are as follows:

- On the left hand side of the hood.
- On the driver's side door.

Refer to OEM, PPC2002 or AEB 191.17 for additional details regarding the California ARB Clean Idle sticker.



NOTES

Notes section with horizontal dotted lines for writing.



## NOTES





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CUSTOMER NAME / VIN

| CHARACTERISTIC DEFINITION     | CHARACTERISTIC VALUE           |
|-------------------------------|--------------------------------|
| WARRANTY                      | GEN.WARRAN.2YEARS 200.000 mile |
| PRODUCT GROUP                 | COACH                          |
| CLASS                         | CLASS 3                        |
| PRODUCT MODEL                 | TS 35                          |
| COUNTRY REGULATIONS           | USA                            |
| MATERIAL                      | STAINLESS STEEL                |
| VEHICLE LENGTH                | 35 FEET                        |
| VEHICLE WIDTH                 | 100" (INC)                     |
| VEHICLE HEIGHT                | 11.54 FEET                     |
| TURNING CIRCLE                | 31.4 FEET                      |
| WHEELBASE                     | 218.11" (INC)                  |
| FRONT OVERHANG                | 82.12" (INC)                   |
| REAR OVERHANG                 | 123" (INC)                     |
| MIDDLE DOOR POSITION          | NO                             |
| DOORS AND POSITIONS           | 1.DR,RH,1FLAP,OUTW.OP.DBLE,PN  |
| FRONT OVERHANG ANGLE          | 8 DEGREES                      |
| REAR OVERHANG ANGLE           | 8 DEGREES                      |
| STEERING POSITION             | LEFT-HAND DRIVE                |
| ENGINE                        | EPA24/CARB24 CUMMINS 360HP L9  |
| TRANSMISSION                  | OTOM ALLISON B500              |
| FRONT AXLE                    | ZF-RL75E INDEPENDENT           |
| REAR AXLE,DIFF RATE           | ZF A133 Diff. 4.18             |
| ADDITIONAL AXLE               | NO                             |
| BRAKE SYSTEM                  | ABS                            |
|                               | ASR (CAN BE DEACTIVATED)       |
|                               | ENGINE BRAKE                   |
|                               | ESC (ESP)                      |
| ENGINE & POWERTRAIN ADDITIONS | FLAME START                    |
|                               | FUEL/WATER SEPARATOR,HEATED    |
| TOILET TYPE AND POSITION      | FIXED, CHEMICAL AT REAR RIGHT  |
| HANDICAPPED LIFT/RAMP         | N/A                            |
| WHEELCHAIR AREA               | NO                             |
| FRIDGE/KITCHEN/WATER HEATER   | NO                             |
| SLEEPING COMPARTMENT          | NO                             |
| SIDE WINDOWS                  | DOUBLE,OPEN W/SECUR.KEY TS35   |
| DRIVER WINDOW                 | DBL GLZ.,MANUEL SLID.,3PIECES  |
| WINDSHIELD                    | 2 PIECES                       |
| REAR WINDOW                   | DOUBLE GLAZED,%18              |
| AIR CONDITIONER               | ROOF HEATED MCC, 28 kW         |
| PREHEATER                     | PREPERATION                    |
| HVAC ACCESORIES               | AC DEFROSTER                   |
|                               | CONVECTOR                      |
| TYRES                         | 7xCON.COAC.HA3 M+S 315/80R22,5 |
| RIMS                          | 7x ALCOA DURA-BRIGHT 9x22,5    |

|                              |                                |
|------------------------------|--------------------------------|
| SPARE TIRE/RIM               | YES                            |
| RIM COVER                    | RIM COVER,ALUMINIUM RIM        |
| BODY LIFTING                 | BODY LIFTING                   |
|                              | FRONT KNEELING                 |
| TRAILER HOOK                 | NO                             |
| SKIBOX                       | NO                             |
| EXTERIOR MIRROR              | RAMCO BLACK, UPRIGHT           |
| INTERIOR MIRROR              | INTERIOR MIRROR,DRIVER         |
| LOCKING SYSTEM               | CENT.LOCKING SYS.MASTER KEY    |
| LUGGAGE LIDS MECHANISM       | SWING TYPE                     |
| SAFETY/ASSISTANCE/WARNING    | ADD.PRESS.AIR TANK(EMERGENCY)  |
|                              | CIRCUIT SEPERATOR ON BATTERY   |
|                              | ENGINE ROOM LID OPEN WARNING   |
|                              | ENGINE ROOM,FIRE EXT.SYSTEM    |
|                              | FIRE EXTINGUISHER, USA         |
|                              | LOW VOLTAGE WARNING            |
|                              | REVERSE GEAR BUZZER            |
| ROOF HATCH                   | 1ROOF HATCH,MANUAL REAR        |
| SUNVISOR                     | 2PIECES,ELEC.CONT. SUNVISOR    |
| DESTINATION PLATE(S)         | NO                             |
| SCHOOLBUS SIGN               | NO                             |
| STOP BUTTON                  | NO                             |
| STOP INDICATOR               | NO                             |
| PASSENGER INFORMATION SYSTEM | SEATBELT & WC BUSY             |
| INTERIOR EQUIPMENTS          | FIRST AID KIT                  |
| CITY APPLICATIONS            | NO                             |
| PARCEL RACK                  | MULTISET                       |
|                              | PARCEL RACK                    |
| PARCEL RACK FLAP(S)          | FRONT LEFT                     |
|                              | FRONT RIGHT                    |
| LABEL(S)                     | ENGLISH/SPANISH                |
| DOCUMENT LANGUAGE            | ENGLISH                        |
| PARTITIONS                   | BHND DRIVER, PLYURETHNE,W/TRAY |
|                              | FR RIGHT,POLYURETHANE,W/TRAY   |
| MONITOR                      | 4 MON.FIXED LCD REI 15.6"      |
| AUDIO AND VIDEO SYSTEMS      | CD/MP3/DVD PLAYER,REI          |
|                              | DRIVER SIDE MICROPHONE, REI    |
|                              | DVD/MP3/2DIN/TOUCH,REI(6700T)  |
|                              | FRONT MICROPHONE, REI          |
|                              | MEDIA CENTER                   |
|                              | MULTI ANTENNA                  |
|                              | REI A/V SYSTEM PREPARATION     |
| ELECTRICAL EQUIPMENTS        | 240A ALTERNATOR                |
|                              | AUTOMATIC FUSES                |
|                              | BATTERY CHARGER SOCKET         |
|                              | BATTERY CHARGER UNIT,VANNER    |
|                              | ENGINE START STOP,ENGINE ROOM  |

|                              |                                |
|------------------------------|--------------------------------|
|                              | USB CHARGER,BACK SEAT          |
| HEADLIGHTS                   | DAY RUNNING LIGHT, DRL (LED)   |
|                              | FOG LIGHT, FRONT               |
|                              | LED HEADLIGHT                  |
| EXTERIOR LIGHTENING          | NO                             |
| BATTERY SPECIFICATIONS       | 2 x 12V 225Ah                  |
| DRIVER WORKING PLACE         | 2X12V PLUG,LEFTOF DRIVER SW BX |
|                              | START BUTTON ON DASHBOARD      |
| INFO. AND CONTROL EQUIPMENTS | REAR VIEW CAMERA               |
| CRUISE SPECIFICATION         | CRUISE CONTROL                 |
| SPEED LIMITER                | 115,85KM/H (72 mph)            |
| TACHOGRAPH                   | NO                             |
| ROAD ASSISTANCE KIT          | JACK                           |
|                              | TOOLBOX                        |
|                              | WEDGE                          |
| FUEL TANK SPECIFICATIONS     | 154 US GALON AL.FUEL TANK      |
| ADDITIONAL REQUESTS          | ELECTRICAL HORN                |
|                              | MECHANICAL FAN                 |
|                              | OUTSIDE AIR CONNECTION, FRONT  |
|                              | WC EXTRA WASTE TANK            |
| CURTAIN                      | DRIVER ROLLER SUNVISOR         |
| FABRIC OF CURTAIN            | NO                             |
| CARPET,STEPS                 | NO                             |
| CARPET,DRIVER AREA           | NO                             |
| CARPET,AISLE                 | NO                             |
| CARPET,UNDER SEATS           | NO                             |
| CARPET,LUGGAGE COMPARTMENT   | NO                             |
| COVER OF CEILING PANELS      | 9506-10 Cleanable Fabric       |
| COVER OF INSIDE RACKS        | 9506-10 Cleanable Fabric       |
| COVER OF OUTSIDE RACKS       | 9506-10 Cleanable Fabric       |
| COVER OF SIDE PANELS         | 9506-10 Cleanable Fabric       |
| FLOOR COVER,PASSENGER COMP.  | GERFLOOR - 9508-34             |
| FLOOR COVER,LUGGAGE COMP.    | KKGE-GF089                     |
| DRIVER SEAT                  | ISRI 6832/872 (W AIRMATIC)     |
| DRIVER SEAT OPTIONS          | 3P SAFETY BELT                 |
|                              | LEFT ARMREST                   |
|                              | RIGHT ARMREST                  |
| ASSISTANT SEAT               | NO                             |
| PASSENGER SEAT               | SEGE BUSCOM 4030               |
| PASSENGER SEAT OPTIONS       | 3 POINT SAFETY BELT            |
|                              | ADJUST. FOOT REST              |
|                              | CUP HOLDER                     |
|                              | FIXED ARMREST, WINDOW SIDE     |
|                              | FLARE (LT9504-54Y LEATHER)     |
|                              | FOLDABLE ARMREST, AISLE SIDE   |
|                              | RECLINING                      |
|                              | SEAT POCKET (NET)              |

|                        |                                |
|------------------------|--------------------------------|
|                        | SING.HORIZON.HANDL.WITH HANGER |
|                        | SOFT TOUCH                     |
|                        | USB CHARGER (UNDER SEAT)       |
| SEAT LAYOUT            | 40 SEATS                       |
| SEAT FABRIC - FRONT    | UEG 1002-55                    |
| SEAT FABRIC - BACK     | UEG 1002-55                    |
| SEAT FABRIC - SIDE     | UEG 1002-55                    |
| HEADREST-SEAT          | LT9504-54Y                     |
| FABRIC OF SEAT-PROFILE | LT9504-54Y                     |
| OUTER PAINT            | OPAQUE-WHITE (W9970)           |



# KALİTE BELGESİ (Certificate Of Quality)



Temsa Skoda  
Sabancı Ulaşım  
Araçları A.Ş.

Tarih (Date)

15.05.2026

## ARACIN TANIMI (Description of Vehicle)

|                          |                                   |                                    |            |
|--------------------------|-----------------------------------|------------------------------------|------------|
| Seri No.<br>(Serial No)  | OA20670                           | Aracın Rengi<br>(Color of Vehicle) | TFN-100-05 |
| Model<br>(Model)         | TS35 CUMMINS EPA24 360HP SS FMVSS | Klima Tipi<br>(Air Condition)      | 386        |
| Şasi No.<br>(Chassis No) | NLTAPLB52T1000474                 | Takograf No.<br>(Tachograph No)    |            |
| Motor No.<br>(Engine No) | 99637571                          | Teslim Alan<br>(Receiver)          |            |

## ARACA AİT BİLGİLER (Vehicle's Information)

| PARÇA ADI (Part Name)               | SERİ/LOT NO (Serial/Lot No) | MARKA/İMALATÇI (Trademark/Producer) |
|-------------------------------------|-----------------------------|-------------------------------------|
| MOTOR TİPİ / ENGINE TYPE            | 86,7 250                    | CUMMINS                             |
| TURBO ŞARJÖR NO / TURBO CHARGER NO  | P1216001884                 | HOLSET                              |
| HAVA KOMP./AIR COMPRESSOR NO        | 2425                        | WABCO                               |
| DİREKSİYON POMPA NO / STEERING PUMP | 0525 577332                 | EVAMO                               |
| ALTERNATÖR NO / ALTERNATOR NO       | 2924 0082/2924 0091         | CUMMINS                             |
| TRANSMİSYON NO / TRANSMISSION NO    | 6520303678                  | ALLISON                             |
| RETARDER / INTARDER NO              | 6520303678                  | ALLISON                             |
| ÖN AKS NO / FRONT AXLE NO           | 9219262                     | ZF                                  |
| ALT SALINCAK KOLLARI NO             | 9231082/9184166             | ZF                                  |
| ARKA AKS NO / REAR AXLE NO          | P25304084R                  | DANA                                |
| DİFERANSİYEL NO / DIFFERENTIAL NO   | P25308029H                  | DANA                                |
| DİREKS.KUTU NO / STEERING BOX NO    | 1025 002898                 | BOSCH                               |
| LASTİK / TIRE                       | 3725                        | CONTINENTAL                         |
| JANT / DISC WHEEL                   | 121125/100225               | ALCOA                               |
| ÖN ISITICI NO / PREHEATER NO        | -                           | -                                   |
| KLİMA KOMP. / AIR COND. COMPRESSOR  | 1908808288                  | BİTZER                              |
| EKSOZ SUSTURUCU (DPF)               | 63253258982                 | CUMMINS                             |
| EKSOZ SUSTURUCU (SCR)               | -                           | -                                   |
| OTOMATİK YANGIN SÖNDÜRME SİST.TÜP N | 150770527                   | FIRETRACE                           |
| RADYATÖR SERİ NO                    | 8130 4325                   | RAAL                                |
| E-FAN NO                            | -                           | -                                   |
| CLEAN IDLE SERİ NO                  | -                           | -                                   |
| KOLTUK SETİ / SEAT SET              | 30004868                    | INOVA                               |
| KLİMA NO / AIR CONDITION NO         | 386                         | MCC                                 |
| KLİMA KONTROL Ü. / AIR COND. CONT.  | 220                         | MCC                                 |
| GGS KAMERA / GGS CAMERA             | C50262                      | CAMOS                               |
| GÖSTER. PAN.(MOKI) / INSTR. CLUSTER | 66920                       | CONTINENTAL                         |
| EDC NO                              | -                           | -                                   |
| ABS-ASR EKU(E.C.U) NO               | ML5S6UZ660                  | BENDIX                              |
| EBS-ESC                             | -                           | -                                   |
| AEBS NO                             | -                           | -                                   |
| ESP NO                              | 127510246500358000000       | BENDIX                              |
| ZR-32                               | -                           | -                                   |
| ZR-5                                | 37840                       | CONTINENTAL                         |
| ARVENTO ID                          | -                           | -                                   |
| ECAS ECU                            | -                           | -                                   |
| MUX 1.1                             | 120531/120841/107963        | CONTINENTAL                         |
| MUX 2.1                             | 108043/120648               | CONTINENTAL                         |
| ACUMEN BOX NO                       | 15743005805369              | BOSCH                               |
| RETARDER ECU (ECU) NO               | -                           | -                                   |
| ŞANZİMAN ECU / TRANSMISSION ECU     | BK2548A651500085            | ALLISON                             |
| MOTOR ECU                           | 20190905                    | CONTINENTAL                         |
| HDMI SPLITTER                       | 6855300466                  | REI                                 |



**KALİTE BELGESİ**  
**(Certificate Of Quality)**



**Temsa Skoda**  
**Sabancı Ulaşım**  
**Araçları A.Ş.**

Tarih (Date)

15.05.2026

**ARACIN TANIMI (Description of Vehicle)**

|                          |                                   |                                    |            |
|--------------------------|-----------------------------------|------------------------------------|------------|
| Seri No.<br>(Serial No)  | OA20065                           | Aracın Rengi<br>(Color of Vehicle) | TBA-100-07 |
| Model<br>(Model)         | TS35 CUMMINS EPA24 360HP SS FMVSS | Klima Tipi<br>(Air Condition)      | 173        |
| Şasi No.<br>(Chassis No) | NLTRPPB79T1000709                 | Takograf No.<br>(Tachograph No)    |            |
| Motor No.<br>(Engine No) | 99616626                          | Teslim Alan<br>(Receiver)          |            |

**ARACA AİT BİLGİLER (Vehicle's Information)**

| PARÇA ADI (Part Name)               | SERİ/LOT NO (Serial/Lot No)    | MARKA/İMALATÇI (Trademark/Producer) |
|-------------------------------------|--------------------------------|-------------------------------------|
| MOTOR TİPİ / ENGINE TYPE            | L9 360                         | CUMMINS                             |
| TURBO ŞARJÖR NO / TURBO CHARGER NO  | P2518301711                    | HOLSET                              |
| HAVA KOMP./AİR COMPRESSOR NO        | 2625                           | WABCO                               |
| DİREKSİYON POMPA NO / STEERING PUMP | 1525                           | J TEKT                              |
| ALTERNATÖR NO / ALTERNATOR NO       | 1225 0194/12250289             | CUMMINS                             |
| TRANSMİSYON NO / TRANSMISSION NO    | 6620058700                     | ALLISON                             |
| RETARDER / INTARDER NO              | 6620058700                     | ALLISON                             |
| ÖN AKS NO / FRONT AXLE NO           | 8995156                        | ZF                                  |
| ARKA AKS NO / REAR AXLE NO          | 8969770                        | ZF                                  |
| DİFERANSİYEL NO / DIFFERENTIAL NO   | 8969770                        | ZF                                  |
| ALT SALINCAK KOLLARI NO             | -                              | -                                   |
| DİREKS.KUTU NO / STEERING BOX NO    | 0725 005333                    | BOSCH                               |
| LASTİK / TIRE                       | 1925/1325                      | CONTINENTAL                         |
| JANT / DISC WHEEL                   | 70825                          | ALCOA                               |
| ÖN ISITICI NO / PREHEATER NO        | -                              | -                                   |
| KLİMA KOMP. / AIR COND. COMPRESSOR  | 1908400116                     | BITZER                              |
| EKSOZ SUSTURUCU (DPF)               | 043Y6D338246249                | CUMMINS                             |
| EKSOZ SUSTURUCU (SCR)               | -                              | -                                   |
| OTOMATİK YANGIN SÖNDÜRME SİST.TÜP N | 150770506                      | FIRETRACE                           |
| RADYATÖR SERİ NO                    | -                              | -                                   |
| E-FAN NO                            | -                              | -                                   |
| MUX 1.1                             | 102566/102131/105427           | BOSCH                               |
| MUX 2.1                             | 102564                         | BOSCH                               |
| KOLTUK SETİ / SEAT SET              | YUSA242452-004                 | SEGE                                |
| KLİMA NO / AIR CONDITION NO         | 173                            | MCC                                 |
| KLİMA KONTROL Ü. / AIR COND. CONT.  | 162                            | MCC                                 |
| GGŞ KAMERA / GGS CAMERA             | C50189                         | CAMOS                               |
| GÖŞTER. PAN.(MOKI) / INSTR. CLUSTER | 61494                          | CONTINENTAL                         |
| EDC NO                              | CLEAN IDLE SERİ NO.31723544    | -                                   |
| MOTOR ECU                           | CLEAN IDLE SERİ NO.EPA30326281 | -                                   |
| ŞANZİMAN ECU / TRANSMISSION ECU     | BK2548A651280740               | ALLISON                             |
| RETARDER ECU (ECU) NO               | -                              | -                                   |
| ABS-ASR ECU(E.C.U) NO               | ML5S6UIZ673                    | BENDIX                              |
| EBS-ESC                             | -                              | -                                   |
| ESP NO                              | 127510246500350000000          | BENDIX                              |
| AEBS NO                             | -                              | -                                   |
| ECAS ECU                            | -                              | -                                   |
| ZR-32                               | -                              | -                                   |
| ZR-5                                | 31510                          | CONTINENTAL                         |
| ARVENTO ID                          | -                              | -                                   |
| LIFT SERİ NO                        | -                              | -                                   |
| ACUMEN BOX NO                       | 157430006173445                | BOSCH                               |
| BAGAJ ANAHTAR NO                    | 137                            | PRIMA                               |

User Manual

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**TS 30**

9031-440Y

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APLB5L2

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28.04.2025



Dear User,

Welcome to the TEMSA family. Modern technology is combined with our best efforts to present you a safe, economical and comfortable ‘companion’.

With its uncompromising customer satisfaction principle and reliable after sales services team, TEMSA has prepared this User’s Manual.

The content of this manual provides necessary information, suggestions and notes to make sure that you will be acquainted with all the features of your vehicle necessary for the safest and most efficient way of driving.

Please read carefully.

To Win and Improve Together in All Times...

TEMSA Family



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# 01

# GENERAL INFORMATION

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- 1.2 Symbols
- 1.3 Warning Labels and Warning Signs
- 1.4 Usage of Heater

## 1.1 Preface



### WARNING

Technical information and properties of the vehicles stated within this User's Manual are valid on the date of issue. TEMSA, reserves the right to make any necessary changes to the features of its products without giving any advance notice.

### 1.1.1 Aim of This Users Manual

This User's Manual is prepared to use your vehicle in the safest and the most efficient way.

Safety instructions given in this User's Manuals are intended to protect persons and properties.

Therefore, before operating the vehicle or before carrying out any maintenance work, read this manual completely and carefully.

Any injury or damage arisen from non-compliance with the safety instructions given in this manual is the responsibility of the vehicle's owner.

Should the vehicle be sold, the User's Manual must be delivered to the new owner of the vehicle.

It is assumed that all the information and safety instructions given in this manual, can be understood clearly by the owner and the user of the vehicle who have sufficient occupational experience and knowledge.

Please contact authorized TEMSA Service if you have difficulty in understanding explanations in the user's manual.

In addition to the information provided within this manual, all prevailing national regulations must be observed.

This manual is intended to be used commonly for all variants of TS 30, therefore some properties of your vehicle may not comply with those indicated in this manual.

Also illustrations used in this manual are intended to be shown procedures, usage and other important subjects for the user. Therefore they may have some differences than the original views.

### 1.1.2 Intended Use of Vehicle

The vehicle is designed for transportation of passengers and their luggage only.

Passenger capacity, according to seat arrangement, is indicated in the passenger capacity label and registration documents of the vehicle.

The vehicle cannot be used except for its design purpose.

The owner of the vehicle will be held liable for any other use beyond this design purpose.

### 1.1.3 Operational Safety

Before driving, take all necessary safety and environmental aspects into consideration. Ensure that the vehicle is in technically perfect condition.

If you believe that your vehicle has a fault which could cause a crash, injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying TEMSA Global.

If NHTSA receives similar complaints, it may open an investigation, and if it discovers that a safety problem exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you and your dealer, or TEMSA Global.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-(800)-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline.

Observe all safety instructions and warnings displayed on the vehicle. The vehicle owner must ensure the presence and legibility of all warnings and information signs throughout the vehicle's service life.

Any alteration of the vehicle may interfere with safety features built into the vehicle and may lead to an accident resulting in serious injury or death.

Throughout this booklet, left is defined as the driver's side of the vehicle, and right as the passenger's side of the vehicle.

#### Fuel Quality

The tank must not be filled with more than 95 % of tank volume. The legal capacity is displayed on the fuel filler door outside. Use only ultra low sulfur diesel (ULSD).

#### California Proposition 65 Warning NOTICE!

Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California for causing cancer and birth defects or other reproductive harm. In addition, certain fluids contained in vehicles and certain wear components contain or emit chemicals known to the State of California for causing cancer and birth defects or other reproductive harm.

#### Production

Whether in production or repair, TEMSA Global always relies on environmentally friendly technology. A waste-management system has been introduced to reduce the amount of waste while simultaneously increasing the recycling rate. Waste water leaves the TEMSA Global factory only after being appropriately treated.

Any fault messages are indicated to the driver by the "Check Engine" warning light and the on-board computer.

#### Coverings

Do not affix any coverings (e.g. films or "stone guards") in the area of the headlights and air intakes. Damage due to excessive temperatures and abrasion could result.

Wear of the different components of the braking system, such as brake pads or brake discs, depends to a great extent on the individual driving style and the conditions of use and therefore cannot be expressed in actual miles on the road. The values communicated by TEMSA Global are based on normal operation adapted to traffic.

**WARNING**

- Danger of burning.
- The tailpipes of the exhaust system can become very hot.
- Do not touch this area.
- Look out for children.
- Parts of clothing can become damaged.

For more information refer to Section 7 (Engine).

**WARNING**

- There is risk of accident if you set or operate the on-board computer, radio, navigation system, telephone or other equipment when driving. This could distract you from the traffic and cause loss of control of the vehicle resulting in serious personal injury or death.
- Operate the components while driving only if the traffic situation allows you to do so safely.
- Carry out any complicated operating or setting procedures only while the vehicle is stationary.
- Take prevailing national regulations into consideration.

**WARNING****Engine Exhaust**

- Engine exhaust is dangerous if inhaled. Engine exhaust fumes have many components which you can smell. They also contain carbon monoxide (CO), which is a colourless and odorless gas. Carbon monoxide can cause unconsciousness and even death if inhaled.
- Never start or let the engine run in an enclosed, unventilated area.
- It is not recommended to sit in your vehicle for prolonged periods with the engine on and the vehicle not moving.



## National Highway Transportation & Safety Administration (NHTSA)

If you feel your new TEMSA Global has a safety issue that could cause a crash or personal injury, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) describing the problem. You should also notify TEMSA Global immediately so that they can evaluate the situation or condition.

If NHTSA receives more information of similarnature, it may open an investigation regarding this matter. If NHTSA determines there is a common safety defect in a group of buses, it may issue an order for a recall. NHTSA will not, however, become involved in an individual issue between the owner/operator, distributor and/or TEMSA Global.

To contact NHTSA, call the Auto Safety Hotline toll free at 1.800.424.9393 (outside the Washington, DC area). In the Washington, DC area, call 366.0123. The NHTSA may also be contacted in writing to the following address:

## NHTSA

US Department of Transportation  
Washington, DC 20590

### Before Placing the Bus in Service

It is the responsibility of the bus Owner / Operator to ensure compliance with all federal, state and local regulations for school bus operation and equipment. As part of a daily pre-trip inspection, the Driver should consider it his/her responsibility to verify that the vehicle is in satisfactory working order and that all emergency equipment is in place, fully stocked (First Aid Kit), up-to-date (Fire Extinguisher), and in proper working condition.

Inspection guidelines from individual state inspection manuals (such as Commercial Driver's License pre-trip inspection procedures) take precedence over those found in this manual. Guidelines found herein are in addition to those in your state's inspection requirements.

The Driver is responsible for inspecting that the loading area is clear before stopping to load passengers. The Driver must ensure that all unloaded passengers are clear before moving the bus.

Check the service brake adjustment.

Check the park brake adjustment on units equipped with hydraulic brake systems.

Check the torque on all body "tie-down" bolts.

Check the engine oil level.

Check the transmission fluid level.

Check the engine coolant level.

Check the air pressure in all tires.

Check the torque on the driveline universal joint straps.

### 1.1.4 Using Mobile Phones and Radio

Mobile phones and radio communication devices may distract the driver during driving. Therefore it is recommended not to use such devices.

Furthermore, usage of mobile phones or other devices transmitting electromagnetic waves must comply with prevailing national regulations.

Before adding sound equipment, check with your dealer and be sure to check Federal rules covering mobile radio and telephone units.

### 1.1.5 Use of Genuine Parts and Accessories

For a safer and longer service life of the vehicle, use only TEMSA genuine spare parts, accessories or parts which have been approved and tested by TEMSA.

All genuine parts have been approved by TEMSA by means of testing their reliability, endurance and safety factors. TEMSA does not take any responsibility for any injury or damage due to use of non-approved third party products.

Any alteration of the vehicle may interfere with safety features built into the vehicle and may lead to an accident resulting in serious injury or death.

### 1.1.6 Service and Maintenance

Carry out all maintenance and service work completely and within the specified intervals as described in this manual and in the warranty and service documentation.

The service and maintenance operations should be carried out by authorized service providers and be in compliance with TEMSA directives.

You should keep a record with all parts receipts and list the mileage and the date of any service work you perform and/or authorized service performed.

Incomplete or improper servicing may cause problems in the operation of the vehicle. If you are in doubt about any servicing, have it done by your authorized TEMSA Global dealer. Improper maintenance during the warranty period will jeopardize your TEMSA Global warranty coverage.

## 1.1.7 Getting the Most Out of Your Vehicle

### 1 Maintenance

The state of the art engine technology means only 1-2 maintenance checks are required each year. Please review your warranty and service manual for detail.

Optimum lubrication and tuning result in a 3 % to 5 % improvement in fuel economy.

### 2 Engine

Optimum fuel economy is reached at max. tractive force range of your engine.

### 3 Axle Alignment

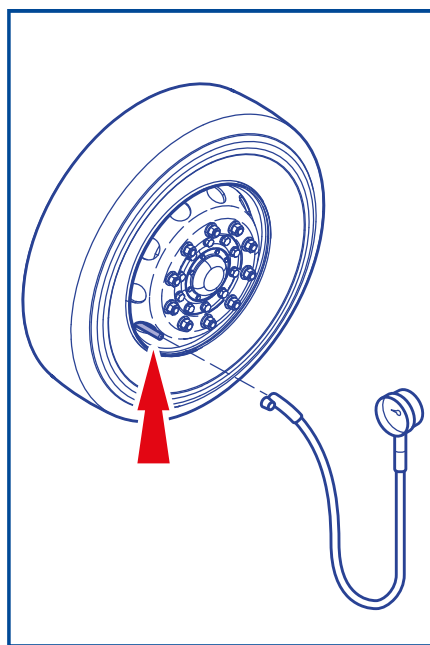
Incorrect axle alignment can impact consumption by up to 3%.

### 4 Tire Pressure

It is well known that a low tire pressure increases fuel consumption by up to 5%. If the tire pressure is 20% below the correct pressure, the rolling resistance will be about 10% higher and the fuel consumption will be about 5% higher.

Check the pressure before driving the vehicle when tires are cold. Remember as the ambient temperature changes raise/fall 10°C / 50°F; tire pressure changes increase/ decrease 0.2 bars / 2.9 psi.

### 5 Take a Break from Idle Time



Cutting idle time from 50% to 25% can improve fuel economy by up to 4%.



### PROTECT THE ENVIRONMENT

Excessive idling will increase the amount of particles released to the environment. Avoid excessive idling.

Limit the warm up time; Excessive idling wastes fuel, adds contaminants to the oil, and adds carbons to the combustion chamber.

Idling engines use about 0.39 gal / 1.5 liters of diesel per hour. Engine idling shutdown pays off in preventing unnecessary fuel consumption of stationary vehicles.

### 6 Gearbox (Manual Operation)

Practice progressive shifting. You do not have to, but overtaking the shifting is always possible:

Change gears earlier (even lower engine speeds) Shift up as soon as you have enough rpm to grab the next higher gear.

Hold the gear (driver's assessment)  
No need to increase revs!

### 7 Driving Steadily

Continuous speed adjustments cost fuel. Adaptive cruise control is an effective aid to keep pace with the other traffic at minimum fuel penalty.

Use the cruise and slow down

- Electronic cruise control saves fuel, makes driving easier.
- Think twice about the cruise speed you choose.
- Every mile per hour over 55 adds almost 0.66 gal/ 2.5 liters more consumption per 62.1 miles.
- Remember, torque moves the load
- Torque moves the load; horsepower determines how fast it moves.
- Staying in the preferred torque range keeps the engine operating more efficiently and puts more profit in your pocket.

## 1.1.7 Getting the Most Out of Your Vehicle

### 8 Driving on a Slope

Hold speed at the start of the slope: Throttle up to full load gradually.

Don't change gear if your vehicle "holds its speed".

Do not be afraid to let the engine rpm pull back on a gradient. When you are pulling a long gradient, be patient.

Letting the engine rpm pull back on gradients will not hurt your engine.

### 9 Use the Energy

Let the mass work for you and make the most of momentum.

When no throttle is given, drive in the highest gear (low internal resistance). Look further ahead; avoid unnecessary braking; drive consistently.

Let momentum of your vehicle work for you to save fuel.

Coasting in gear allows all the fuel to return to the tank.

Kick out the cruise control about a couple miles before you exit, stay in gear as long as possible, and watch how far you can coast for free.

Do not overload the vehicle with energy.

Release throttle in good time (weight of your vehicle represents a lot of energy when it moves)

When throttle is released your consumption is ZERO.

Do not build up too much speed and then correct it.

### The Whole Makes the Difference

An efficient driveline alone does not guarantee the best return on fuel in everyday use. It is the total of different factors, like the overall configuration of the vehicle, the maintenance condition and the driving style that are decisive for the fuel efficiency.

In general less weight means more payload or less fuel. If aluminum wheels are fitted, the gain also in-

cludes better looks of the vehicle and lower maintenance costs.

### Rules of thumb

Remember! Max. tractive force is defined between certain rpm range for your engine in which optimum fuel economy is reached. Tractive force at lower rpm limit of this range is the same as the highest limit of this range, resulting in high driving comfort at low revs.

0.6 mph (1 km/h) faster = 1 % higher fuel consumption:

- Driving at 85 instead of 80: +5 %
- Driving at 90 instead of 85: +5 %



### PROTECT THE ENVIRONMENT

Lowering the fuel consumption will reduce the exhaust emissions and will protect the environment.

Additional energy consumers have an impact as well:

- Air conditioning: 2 %
- Extra Lights on: 1 %-3 %

### Driving Performance

3 basic rules to drive with optimum fuel economy:

- Use as little energy as possible to get the vehicle up to speed.
- Appropriate revs.
- Appropriate gears.

### Rate the energy required

Do I really need to accelerate that much in this situation?

Use the vehicle speed.

Weight of your vehicle represents a lot of energy when it move, use that energy.

### Summary

Anticipate:

- Release throttle in good time.
- Prevent unnecessary braking.
- Drive no faster than is necessary at a given time.

## 1.2 Symbols

Operating instructions in this manual include the following symbols, warning words and signs:



### OPTION

This symbol indicates that mentioned property of the vehicle is optional. (Model specifications, models specified to the country, optional equipment).



### INFORMATION

This symbol is used when important additional information is given.



### VISUAL INSPECTION

This symbol is used to inform the user that the complementary indicator lamp would be lit after carrying out the mentioned instruction.



### WARNING

This symbol is used in conditions which may cause damage or injury if necessary measures are not taken.



### AURAL INSPECTION

This symbol is used to inform the user that the complementary sound can be heard after carrying out the mentioned instruction.



### HOT SURFACES

This symbol is used to indicate the risk of burns in case of contact with hot surfaces.



### MECHANICAL MAINTENANCE

This symbol is used to indicate conditions where mentioned instruction should be carried out by a mechanic.



### ROTATING PARTS

This symbol is used to indicate conditions where the user may be hit and injured by rotating parts.



### DO IT YOURSELF

This symbol indicates that mentioned instruction can be carried out by the user.



### DOCUMENT REFERENCE

See also other manuals delivered for information.



### SAFETY GLOVES

This symbol is used to indicate conditions where it is necessary to wear safety gloves against injuries due to maintenance work.



### CONSULT AUTHORIZED SERVICE

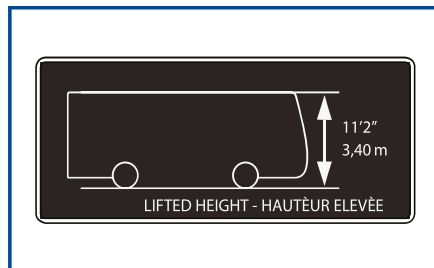
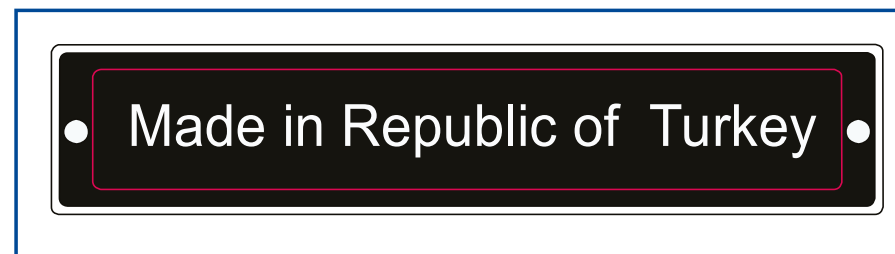
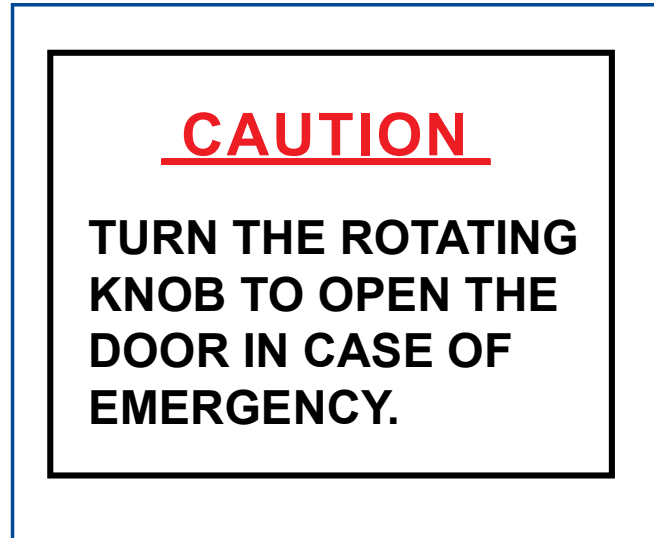
This symbol is used in conditions where authorized TEMSA Service should be consulted for described maintenance, repair and inspection work.



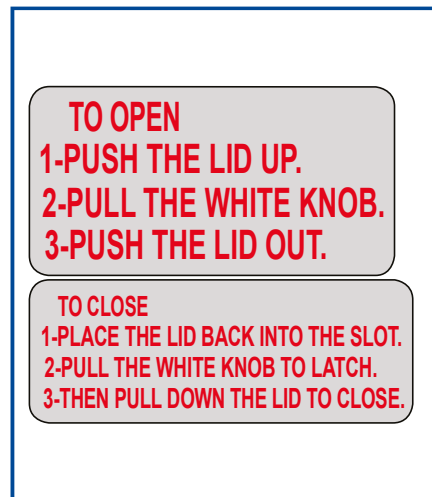
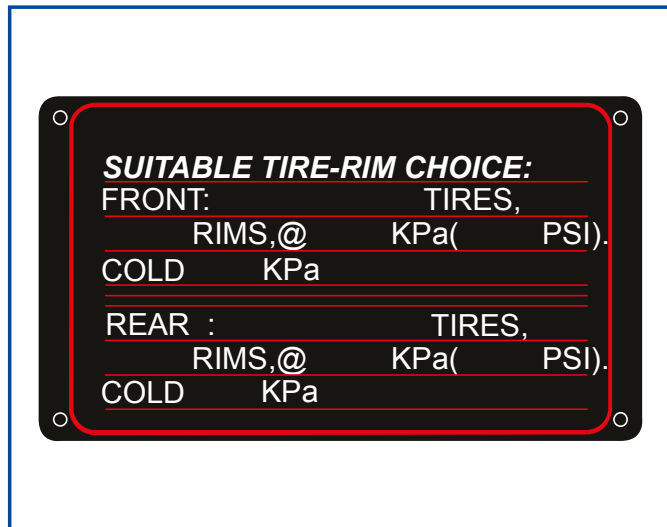
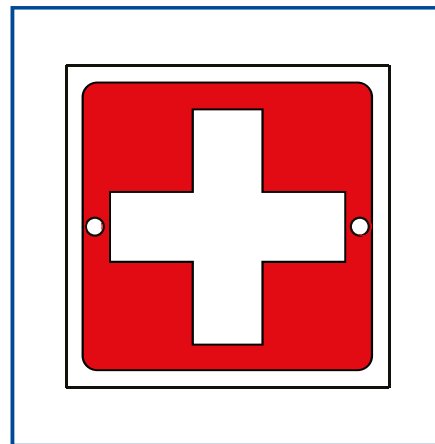
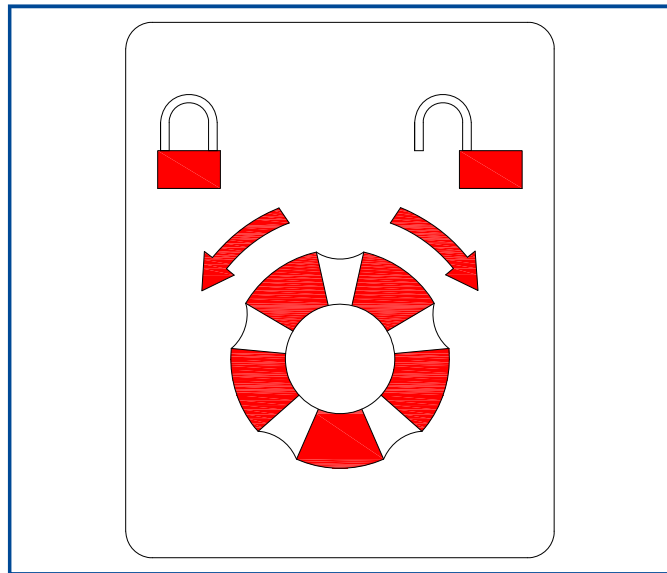
### PROTECT THE ENVIRONMENT

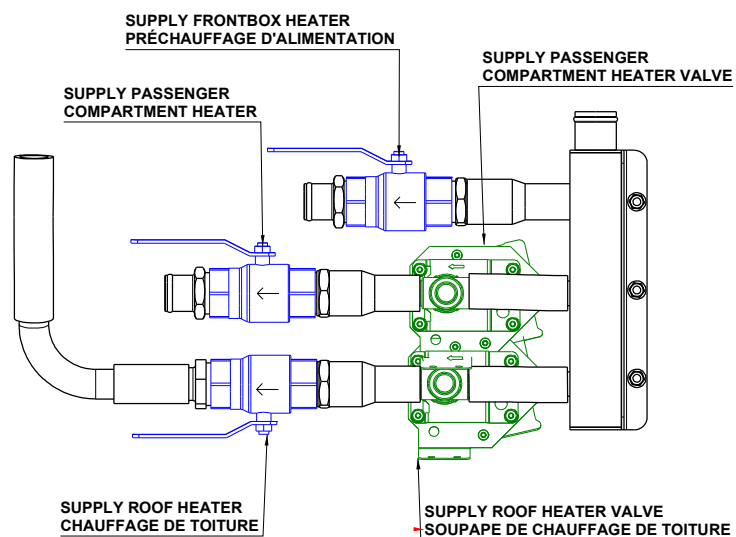
This symbol is used to indicate the environment should be considered when conducting this task.

### 1.3 Warning Labels and Warning Signs



### 1.3 Warning Labels and Warning Signs





-SPARE TIRE MUST BE FIXED PROPERLY  
LE PNEU DE RECHANGE DOIT ETRE FIXE  
CORRECTEMENT

-BEFORE RUNNING THE VEHICLE  
AVANT DE CONDUIRE LE VEHICULE

-DON'T DUMP THE TANK  
WHILE THE ENGINE IS RUNNING  
BE AWARE IT IS TOO HOT

-NE PAS DECHARGER LE RESERVOIR  
MOTEUR EN MARCHE  
C'EST TRES CHAUD

CAUTION-DIKKAT-ACHTUNG-ATTENTION

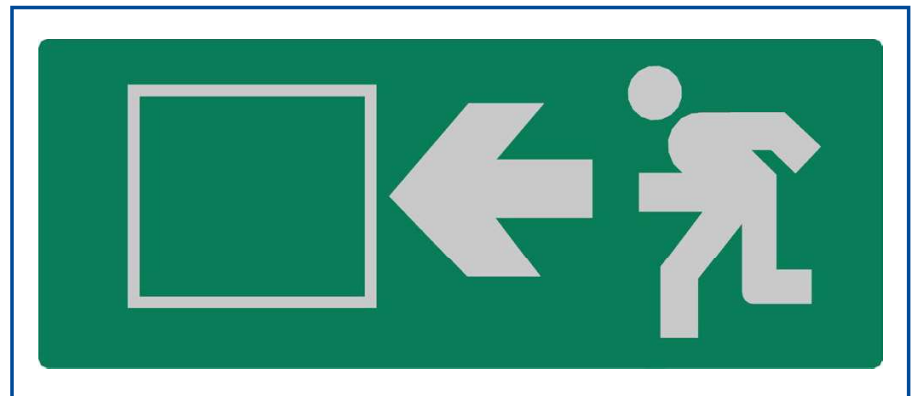
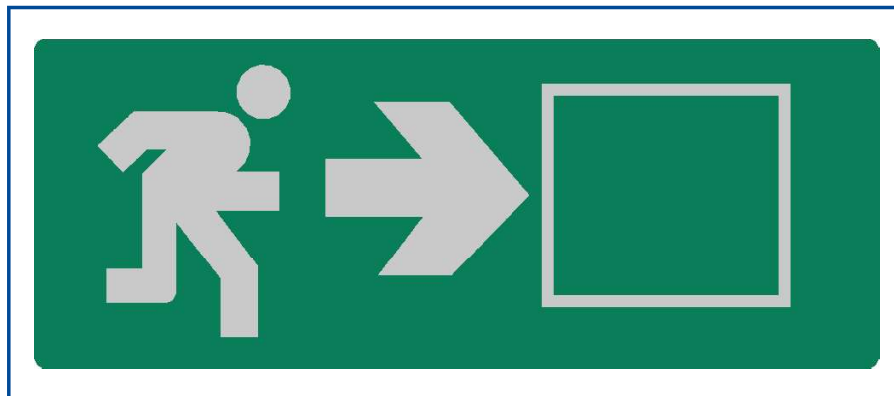
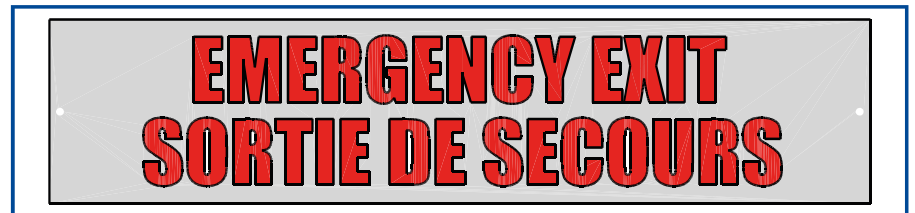
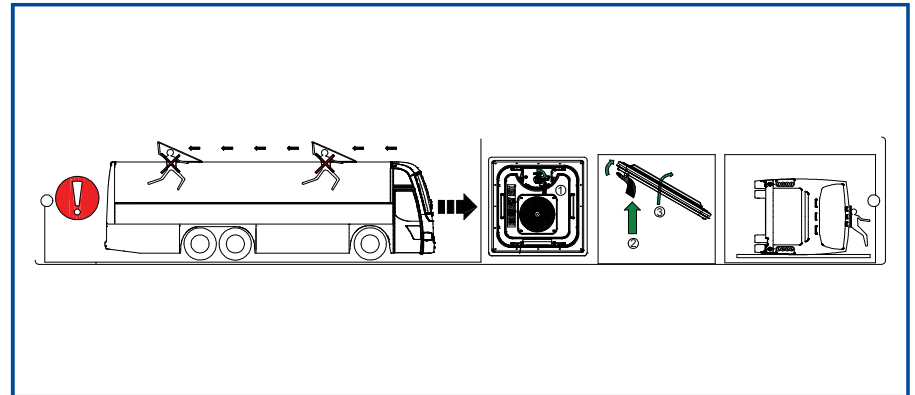
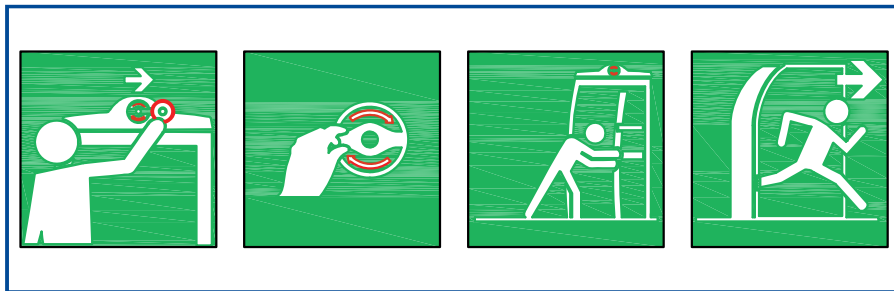
- DO NOT CLEAN WITH LIQUID
- SIVI ILE TEMIZLEMAYINIZ
- NICHT MIT FLÜSSIGKEIT REINIGEN
- NE PAS NETTOYER AVEC DU LIQUIDE



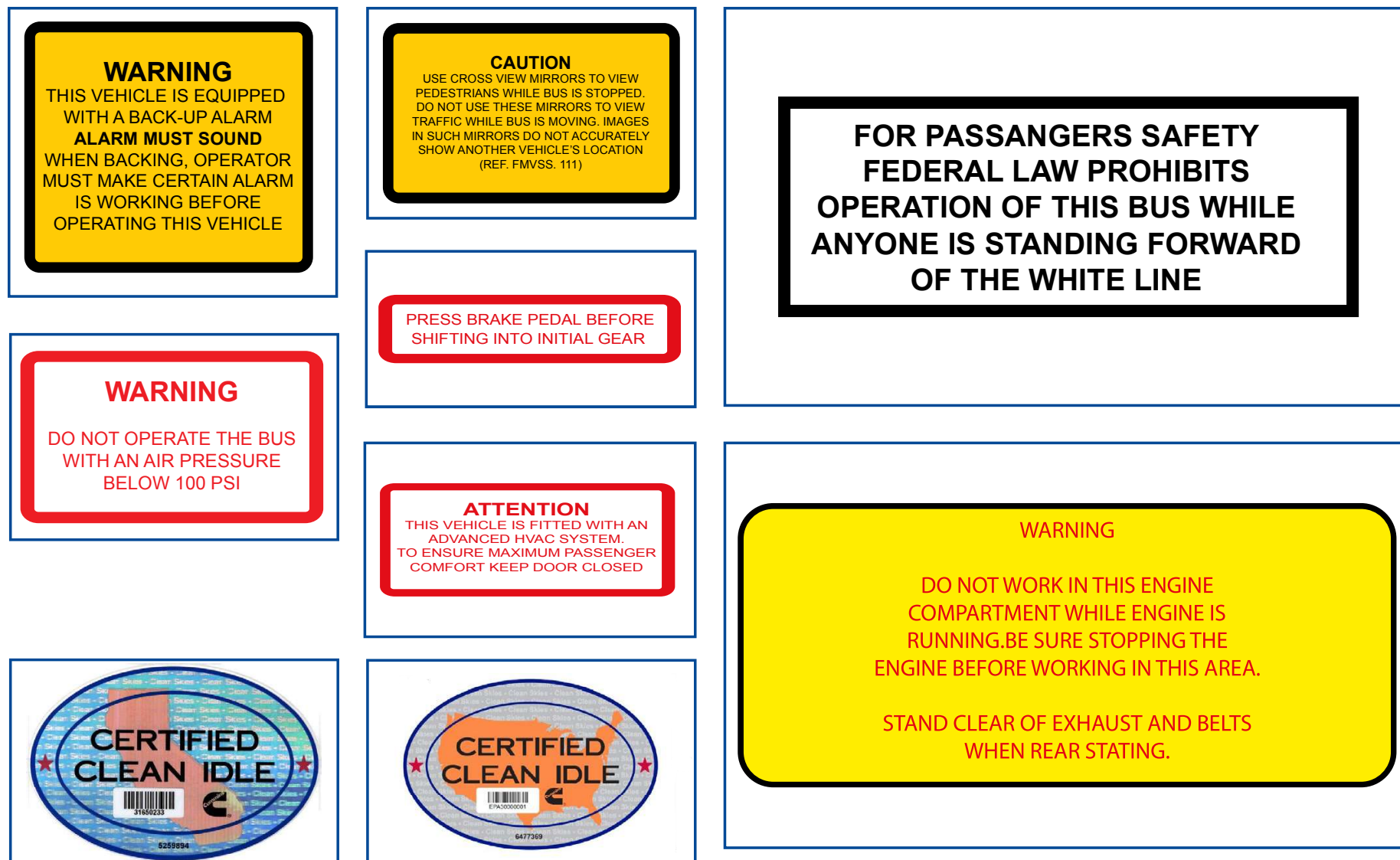
## 1.3 Warning Labels and Warning Signs

| VEHICLE EMISSION CONTROL INFORMATION                                                                                                                                                               |                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Manufactured by Temsa Skoda Sabanci Ulasim Araclari Anonim Sirketi (TEMSA)                                                                                                                         |                                           |
| Vehicle Model: TS30, TS35                                                                                                                                                                          | Subcategory: Diesel/ Medium HDV/ Regional |
| Vehicle MY: 2025                                                                                                                                                                                   | Emission Control Systems: WR, LRRRA       |
| Vehicle Family: STEM2VOCVTS3                                                                                                                                                                       |                                           |
| THIS VEHICLE WAS CERTIFIED AS A VOCATIONAL VEHICLE USING THE PRIMARY STANDARDS OF 40 CFR PART 1037.105(B). THIS VEHICLE COMPLIES WITH U.S EPA REGULATIONS FOR MODEL YEAR 2025 HEAVY-DUTY VEHICLES. |                                           |
|                                                                                                                   |                                           |
| TEMSA                                                                                                                                                                                              | NO FUEL-FIRED HEATERS MAY BE INSTALLED    |
| <a href="http://www.Temsa.com">www.Temsa.com</a>                                                                                                                                                   |                                           |

### 1.3 Warning Labels and Warning Signs

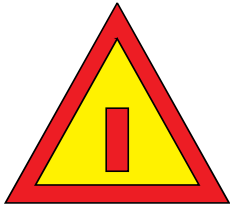


## 1.3 Warning Labels and Warning Signs



## 1.3 Warning Labels and Warning Signs

**DO NOT PULL**



THE BLIND IS CONTROLLED  
AT DISTANCE BY THE OPERATOR



Fasten Seatbelt  
Boucler Votre Ceinture  
Abroche su cinturón  
de seguridad



**FIRE  
EXTINGUISHER**

**TEMSA SKODA SABANCI  
ULASIM ARACLARI SAN VE TIC .AS.**

**CUMMINS  
LOGOSU**

**FACTORY SHIPMENT ENGINE COOLANT  
CUMMINS ANTIFREEZE**

VOLUME RATIO

FREEZING POINT

%50

-38 °C  
-36 F



**USE ULTRA LOW SULFUR DIESEL FUEL ONLY**



**SERVICE FILL PRODUCTS**

MOTOR  
ENGINE  
MOTEUR

Castrol Vecton 15W-40 CK-4

DIFERANSİYEL  
DIFFERENTIAL DE PONT  
DIFFERENTIAL

Axle EPX 85W-140

ANTIFRIZ  
ANTIGEL  
FROSTSCHUTZMITTEL  
ANTIFREEZ

9727-01  
-CUMMINS ENGINE ANTI FREEZE  
-ANTIGEL MOTEUR CUMMINS.

SANZIMAN  
BOITE DE VITESSES  
GETRIEBE  
GEARBOX

Castrol TranSynd 668

DİREKSİYON KUTUSU  
BOTIER DIRECTION  
LENKGETRIEBE  
STEERING GEARBOX

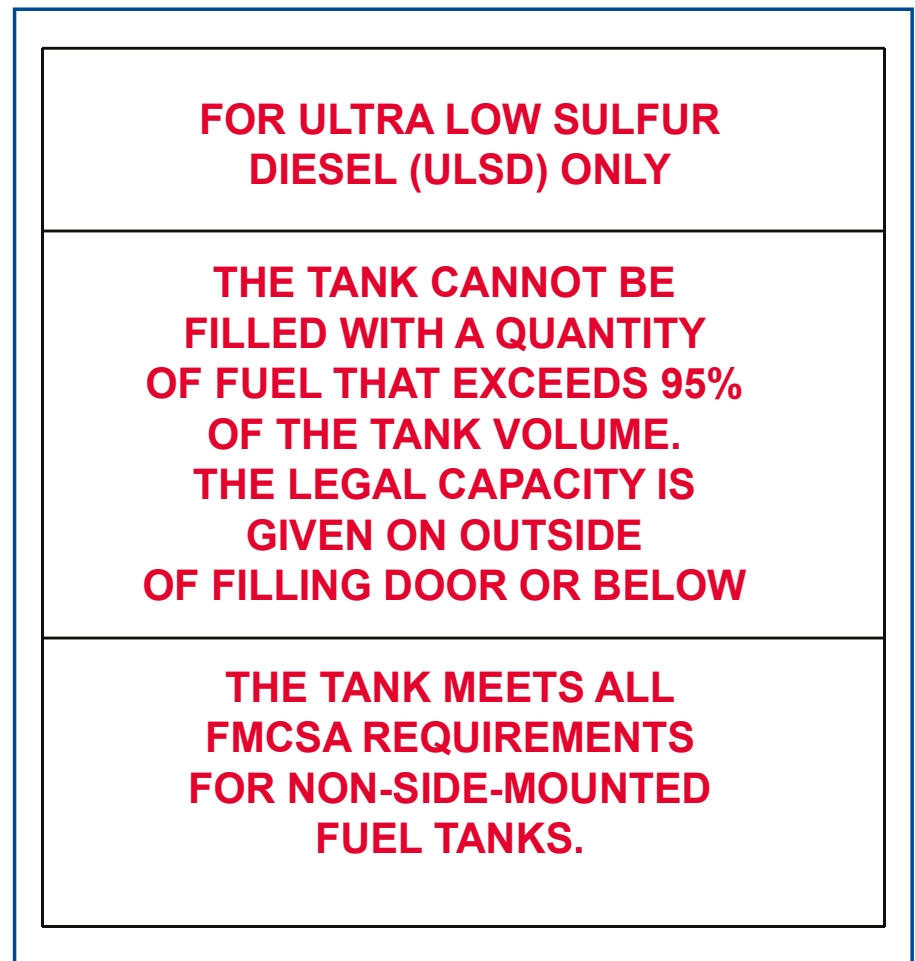
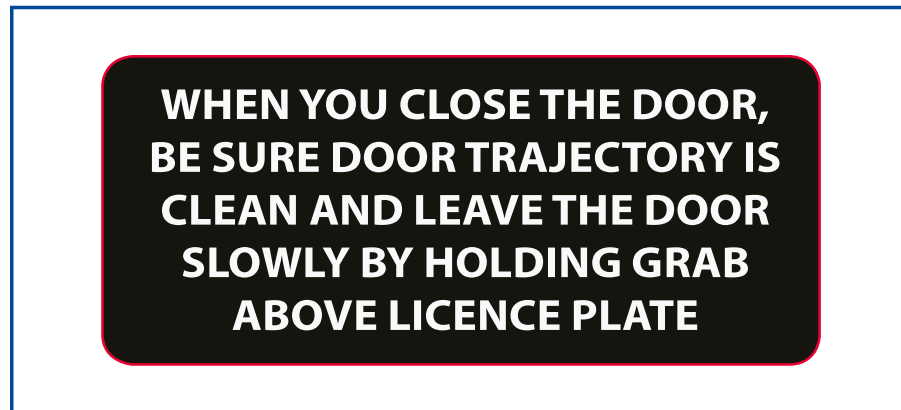
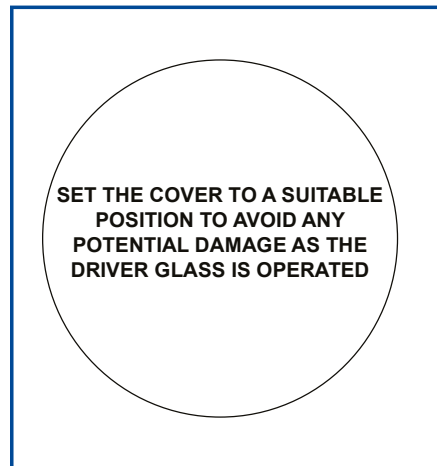
-Transmax Dex II Multivehicde  
-Transmat Dex II multi-véhicule

TEKER RULMANLARI  
REDUCTEUR ROUE  
RADLAGER  
WHEEL BEARINGS

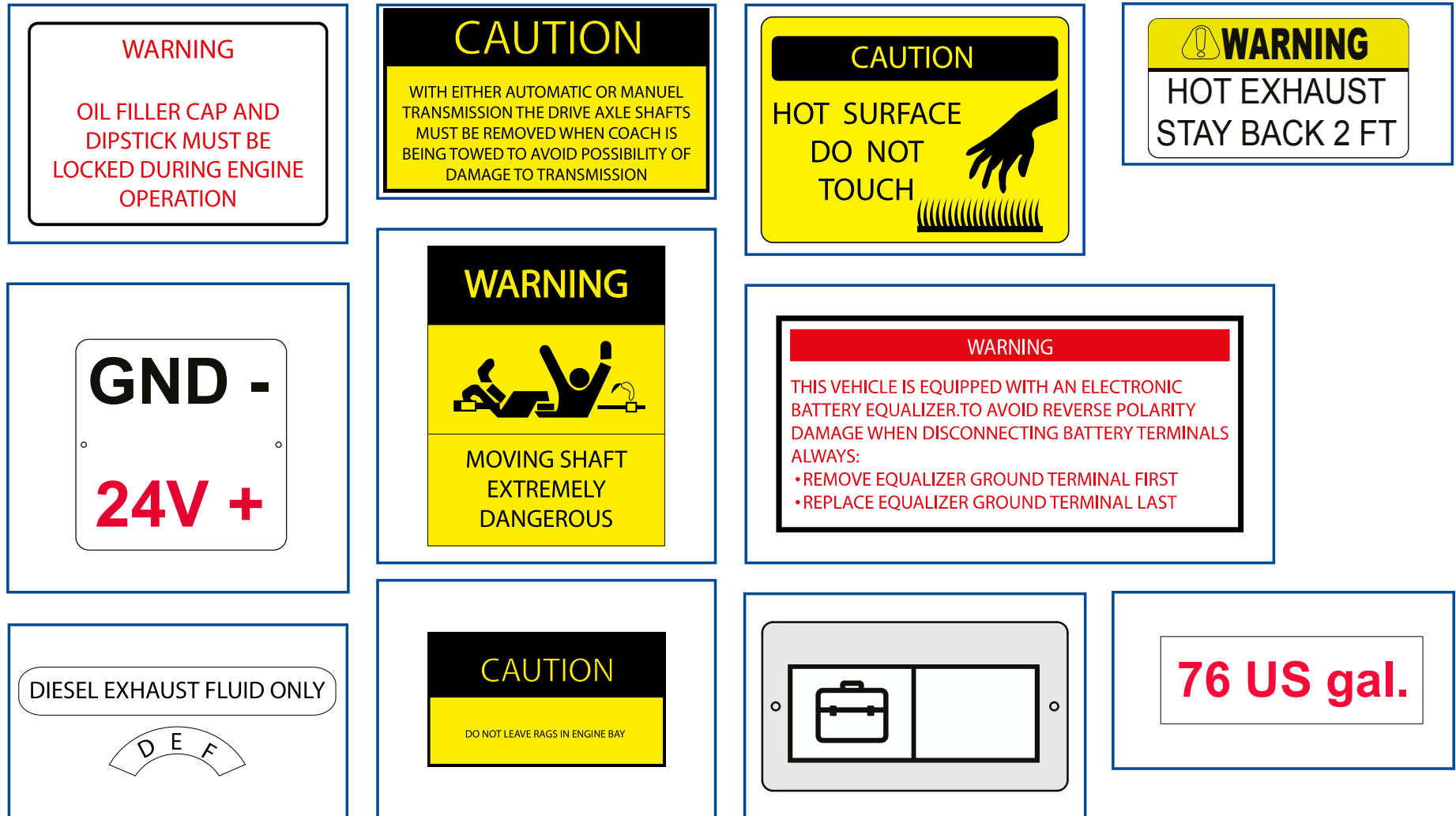
-High Temperature Grease  
-Graisse haute température.

DEBRIYAJ HİDROLİĞİ-EMBAYAGE HYDRAULIQUE-KUPPLUNG CLUTCH-HYDRAULIQUE D'EMBRAYAGE

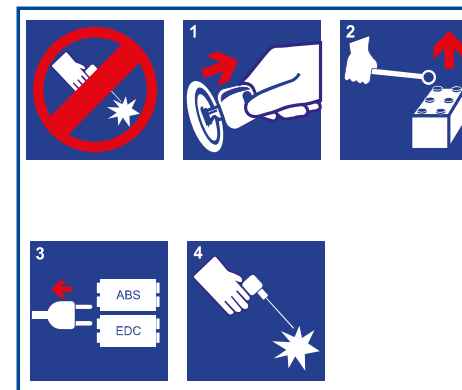
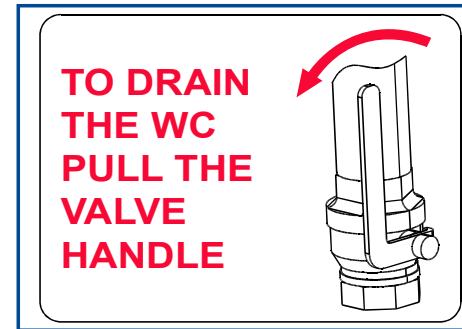
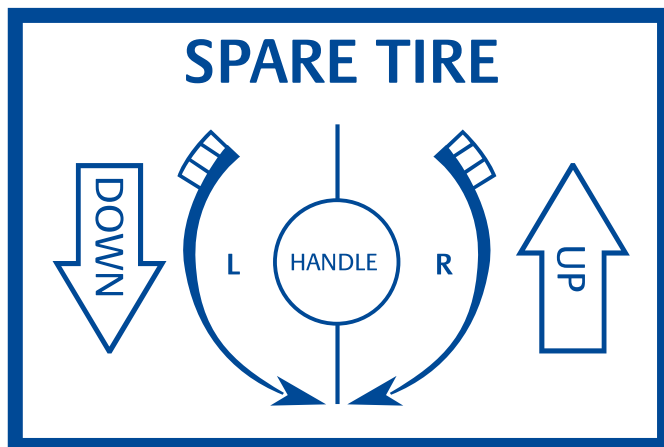
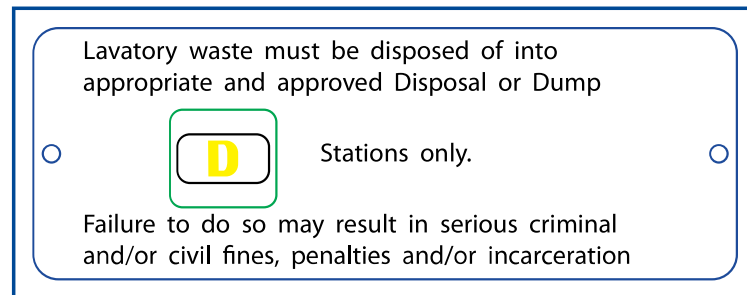
### 1.3 Warning Labels and Warning Signs



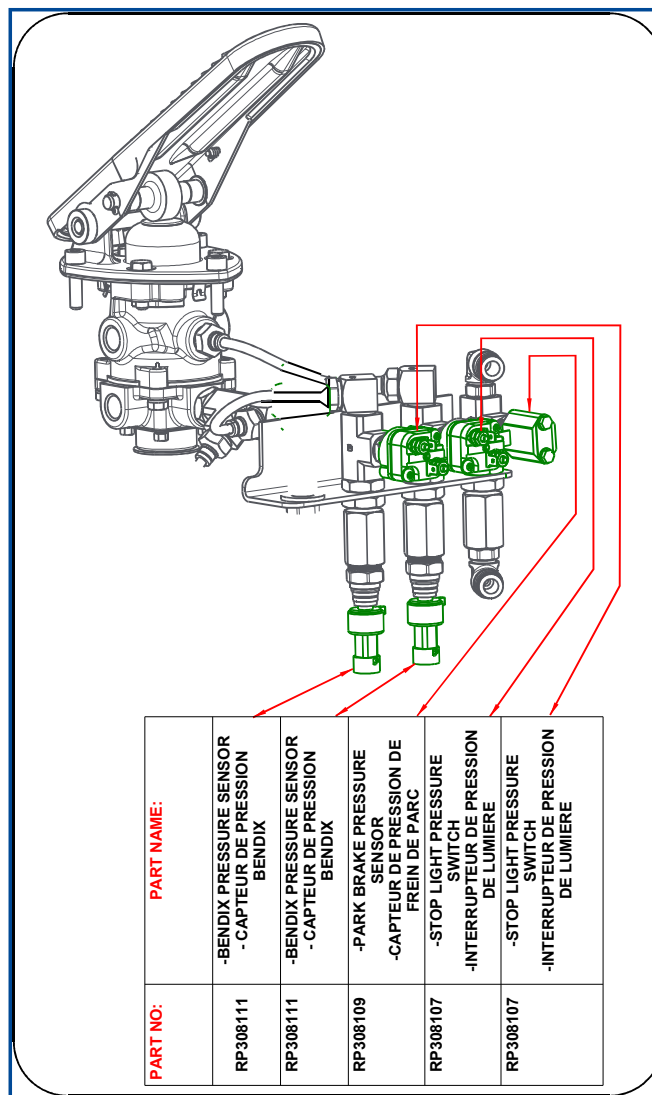
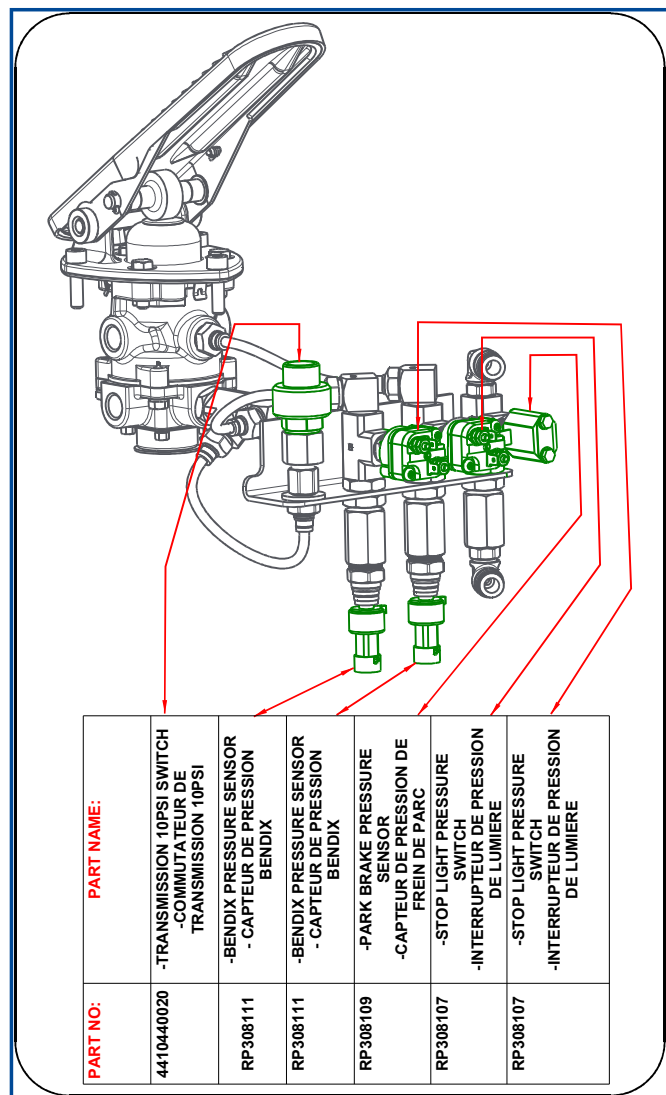
### 1.3 Warning Labels and Warning Signs



## 1.3 Warning Labels and Warning Signs



## 1.3 Warning Labels and Warning Signs





## 1.4 Usage of Heater

The heater must not be operated:



**RISK OF FIRE,  
EXPLOSION &  
ASPHYXIATION**

- At filling stations and other refueling points.
- If the heater or its exhaust outlet is in locations where flammable vapors or dust may form (e.g. close to fuel, coal, wood dust or cereal storage facilities).
- If the heater or its exhaust outlet is located close to inflammable materials for example dry grass and leaves, cartons, paper etc.
- In enclosed areas (e.g. garages, hall without a suck off facility), not even if the digital timer or Tele Start is used.
- If the exhaust outlet of the heater is partial or fully obstructed (e.g. by soil or snow, as it may occur while move the vehicle backwards).



# 02

## VEHICLE INFORMATION

- 2.1 Vehicle Certification Plate
- 2.2 Vehicle Specifications
- 2.3 Instrument & Control Panels
  - 2.3.1 Left Control Panel
  - 2.3.2 Instrument Panel
  - 2.3.3 Steering Wheel Control Group
  - 2.3.4 Lateral Control Panel
  - 2.3.5 Right Control Panel
- 2.4 Keys

## 2.1 Vehicle Certification Plate (Location)

Vehicle certification plate is located on the area shown in the illustration.



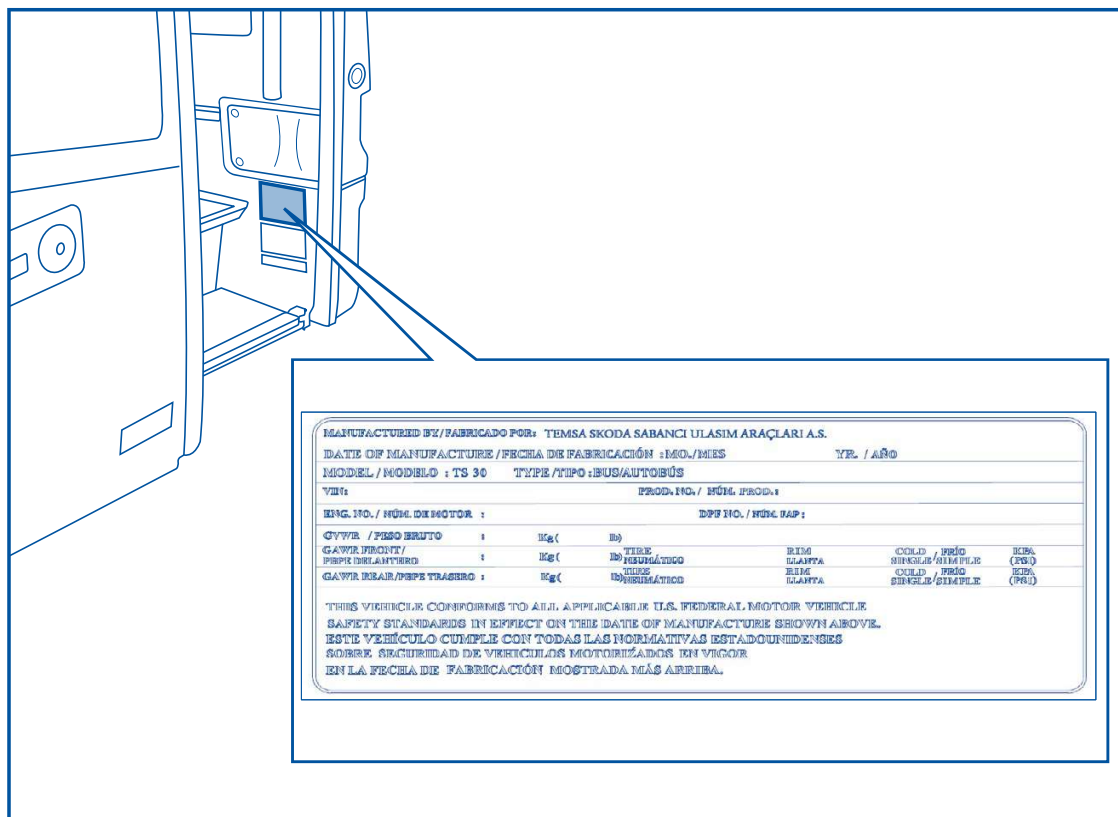
### INFORMATION

Information on the label enables faster road assistance and spare parts services.



### WARNING

Do not remove, deface or cover the certification plate.



## 2.2 Vehicle Specifications

| Weight and Capacity       |                      |
|---------------------------|----------------------|
| Gross Vehicle Weight Rate | 12900 kg / 28439 lbs |
| (GVWR) Front              | 4990 kg / 11001 lbs  |
| (GVWR) Rear               | 9440 kg / 20811 lbs  |
| Fuel Tank                 | 300 lt / 76 gal      |
| Urea Tank                 | 36 lt / 10 gal       |
| Luggage Compartment       | 141 ft3              |

| Tires and Rims        |                                                               |
|-----------------------|---------------------------------------------------------------|
| Tires<br>265/70 R19,5 | 7xCONTI.HS3,265/70 R19,5,M+S                                  |
| Rims                  | 7x ALCOA DURA-BRI.7.5x19.5-155<br>7x STEEL RIM 7.5x19.5-155mm |
| Tire Pressure Values  |                                                               |
| Front                 | 775 kPa (112,4 psi)                                           |
| Rear                  | 775 kPa (112,4 psi)                                           |

| Engine (EPA24/CARB24 CUMMINS) |                                                        | Transmission                            |
|-------------------------------|--------------------------------------------------------|-----------------------------------------|
| Model                         | EPA24 CUMMINS 250HP ISB<br>CARB24 CA CUMMINS 250HP ISB | OTOM ALLISON B300<br>OTOM ALLISON B300R |

| Engine (EPA24/CARB24 CUMMINS) |               | Transmission  |
|-------------------------------|---------------|---------------|
| Model                         | CUMMINS 250HP | B300<br>B300R |

| Engine            | Maximum Power (Hp) | Maximum Torque (lb-ft/rpm) |
|-------------------|--------------------|----------------------------|
| CUMMINS 250HP ISB | 250 HP             | 660 lb-ft / 1600 rpm       |

| Performance    |               |
|----------------|---------------|
| Max. Speed     | 80 mph        |
| Turning Circle | 8 ft / 8473mm |

| Suspension |                 |
|------------|-----------------|
| Front      | Shock Absorber  |
|            | 2 Air Belows    |
| Rear       | Shock Absorbers |
|            | 4 Air Belows    |

## 2.2 Vehicle Specifications

| Dimensions                  |                         |
|-----------------------------|-------------------------|
| Length                      | 31.1 ft / 9479 mm       |
| Width                       | 94 inch / 2404 mm       |
| Height                      | 11'01" ft / 3255 mm     |
| Turning Radius              | 28 ft / 8534.4 mm       |
| Distance Between Wheels     | 185.03 inch / 4699 mm   |
| Front Bumper Rear Wheelbase | 76,3 inch / 1938.02 mm  |
| Rear Bumper Front Wheelbase | 112,7 inch / 2862.58 mm |



## 2.3 Instrument and Control Panels

### 2.3.1 Left Control Panel

### 2.3.2 Instrument Panel

### 2.3.3 Steering Wheel Control Group

### 2.3.4 Lateral Control Panel

### 2.3.5 Right Control Panel



## 2.3.1 Left Control Panel



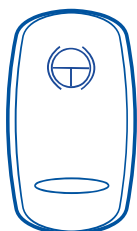
### ACC Switch

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



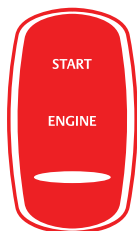
### ASR Disable Switch

Deactivates ASR (Acceleration Slip Regulation) System.



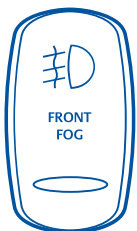
### Intarder (Optional)

Enables the control of auxiliary brake unit (retarder) via foot pedal.



### Start-Stop Switch

Runs and stops the engine.



### Front Fog Lamp

Push button to turn front fog lamps on. Press once again to turn them off.

### Emergency Stop Switch

Lift up the red protection cap and activate the switch.



### WARNING

Never use “emergency stop switch” while driving. Use only when the vehicle is stationary and parking brake is activated.



### INFORMATION

Closing the red cover cap pushes the switch forward and holds it in position.

### Switching off the Engine by Emergency Stop Switch

When the switch is activated, the engine stops, gear is engaged into neutral automatically, hazard warning flashers start flashing and aisle illumination lamps, step lamps light on. None of the brake units apart from the foot brake, can be used till the switch is released.

Reset the switch by switching it back to its original position.

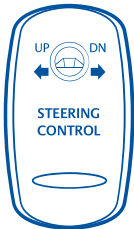


### INFORMATION

Except for “Emergency Stop Switch”, all switches except “Central Locking Switch” and “Dimmer Switch” stated in this section have LED's on them which indicate that function is on or off.

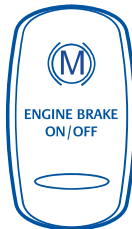


## 2.3.1 Left Control Panel



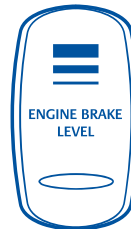
### Steering Control Switch

Press upper side of the switch to release steering wheel lock mechanism.



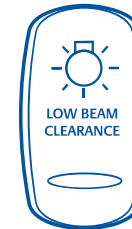
### Engine Brake On/Off Switch

Press upper side of the switch to activate "Engine Brake Level" switch.



### Engine Brake Level Switch

Switch has three levels. Press button to adjust engine brake level.



### Low Beam Clearance Switch

This switch has three levels. Press button to turn on parking lamps and low beam headlamps.



### WARNING

- Steering wheel adjustment must only be performed when the vehicle is stationary and the parking brake is activated.
- Do not operate without locking the mechanism again.



### INFORMATION

- Front body height decreases as long as the lower side of the switch is pressed.
- Press upper side of the switch to increase front body height.



### INFORMATION

To activate engine brake level switch, first press upper side of the engine brake switch.

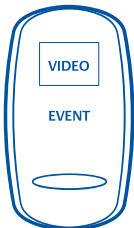


### INFORMATION

**1st Position:** Parking lamps and low beam headlamps are on.

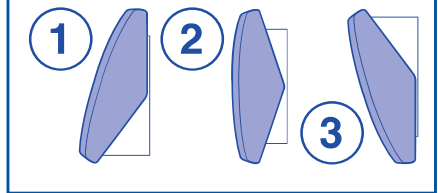
**2nd Position:** Parking lamps are on.

**3rd Position:** Parking lamps and low beam headlamps are off.

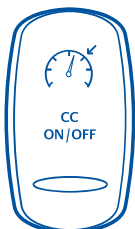


### VIDEO - EVENT Switch

The button Used to activate monitors in the vehicle.



## 2.3.1 Left Control Panel



### Cruise Control Switch

Activates cruise control function. So the “cruise control level” switch can be used.

### Cruise Control

Enables constant speed (depending on the engine and braking power) without pressing accelerator pedal.



### WARNING

- When cruise control function is deactivated, vehicle slows down unless accelerator pedal is pressed.
- Never use cruise control on wintry road conditions, slippery roads or in heavy traffic.
- When the ignition is switched off cruise values are deleted.



### Central Locking Switch (Optional)

Press lower side of the switch to lock all luggage hatches. To unlock, press upper side of the switch.



### WARNING

- Central locking system cannot open/close luggage hatches. It is used for only locking/unlocking.
- Luggage hatches can be locked by keys. If a luggage hatch locked by key, central locking switch can not unlock the hatch. Ensure that hatch is unlocked before opening it, forcing hatch may cause breaking the locking pin.

Only luggage hatches are locked/unlocked by the central locking system. Other hatches cannot be locked/unlocked by central locking system.

### Cruise Control Activating

Press upper or lower side of cruise control level switch to activate cruise control.



### INFORMATION

- Press upper side of “cruise control switch” to activate “cruise control level switch”.
- Cruise control can be activated within speed range of 20 mph and 75 mph.
- Move your foot from the accelerator pedal before pressing cruise control switch.

### Accelerating or Deceleration

Press upper side of cruise control level switch to accelerate; press lower side of the switch to decelerate.

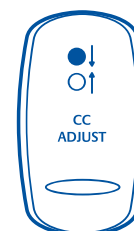
### Deactivating

Press lower side of cruise control switch to deactivate.



### INFORMATION

Cruise control is deactivated when service brake is applied or engine brake is activated.

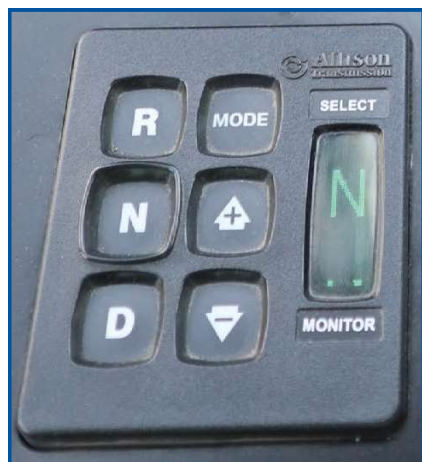


### Cruise Control Adjust Switch

Increases or decreases set speed value.

## 2.3.1 Left Control Panel

### Automatic Transmission Control Panel



Your vehicle is equipped with a transmission of six forward gear and a reverse gear. For more information, see also page 142.



#### OPTION

Automatic transmission model varies according to customer requirements.

MODE

Economic and powerful drive mode indicator



Upshift switch



Downshift switch

D

Forward gear switch

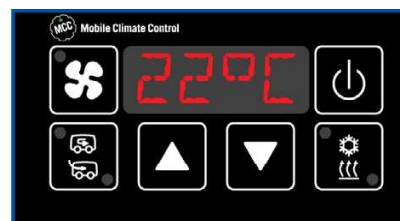
N

Neutral gear switch

R

Reverse gear switch

## 2.3.1.1 Air Conditioner Control Panel



### INFORMATION



Refer to user's manual of air conditioner control panel delivered with the vehicle for more information.



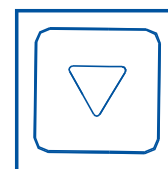
### On/Off Button

Press button to turn on/off the air conditioner unit.



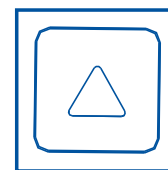
### Mode Select Button

Press button to select A/C, heat or ventilation mode.



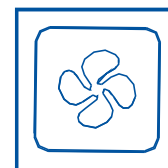
### Temperature Down Button

Press button to decrease temperature setpoint.



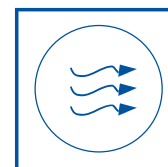
### Temperature Up Button

Press button to increase temperature setpoint.



### Fan Speed Button

Press button to adjust current fan speed.



### Fresh Air Selection Button

Press button to select fresh air / recirculated air mode.

### 2.3.1.2 Defroster Control Panel



Working procedure ;

- 1- Ignition switch must be ON.
- 2- Fan must be on for defroster cooling
- 3- The temperature setting needs to be in the blue field for air conditioning
- 4- For heat, fan must be on and the temperature setting must be in the red setting.



#### OPTION

Cooling function of defroster is optional. It may not exist in all models of the vehicle.



#### Temperature Adjustment Button

Rotate knob to adjust temperature.

Blue: Cold air  
Red: Hot air



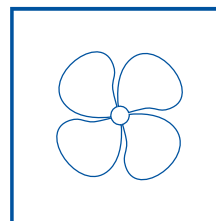
Press button to direct the air to the windows, upper side and lower side of the driver.



#### INFORMATION



Refer to user's manual of defroster control panel delivered with the vehicle for more information.



#### Coach air circulation fan speed adjustment knob

Rotate the knob clockwise to increase the speed of the fan which

is located in the luggage compartment. Fan speed may need to be increased when the side windows become foggy.



Press the button to direct the air towards the windshield for defrost



Press button to direct the air to the upper side and lower side of the driver.

### 2.3.2 Instrument Panel



## 2.3.2 Instrument Panel

### Speedometer and Tachometer



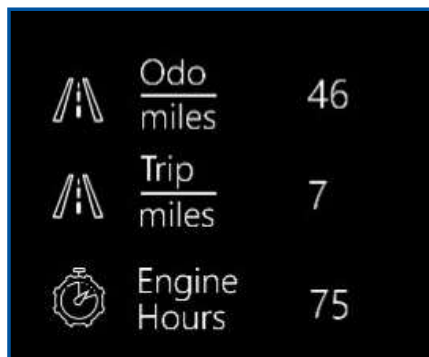
It shows the current speed of the vehicle and also the tachometer. By selecting type 2 in the settings, you can display only the tachometer in the center of the main screen.



#### VISUAL INSPECTION

Check revolution counter regularly during driving. Avoid exceeding revolution value of 2300 rpm.

### Dashboard Information and Descriptions



1. Odo miles (Odometer - miles)
  - Shows how far the vehicle has traveled in total.
2. Trip miles (Trip distance - miles)
  - Trip distance. Shows how many miles have been traveled for a given trip.
3. Engine Hours (Engine running time - hours)
  - Shows the total number of hours the engine has been running.

### Fuel Indicator



1. Fuel level indicator (indicated in %)
  - Indicates the fuel level, 100% full, 0% empty.
2. DEF (Diesel Exhaust Fluid) indicator
  - DEF fluid fill rate

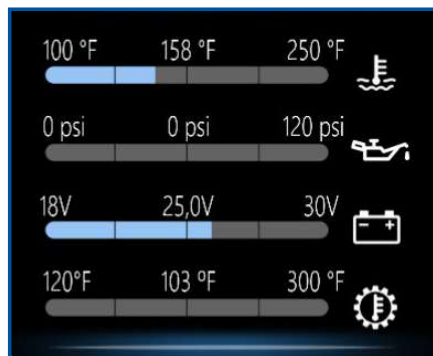


#### VISUAL INSPECTION

Check fuel level regularly during driving.

## 2.3.2 Instrument Panel

### System Values



#### 1. Engine Water Temperature Indicator (°F)

- This gauge shows the temperature of the engine coolant in Fahrenheit (°F). It is important to follow the set temperature ranges to prevent the engine from overheating. If the temperature rises abnormally, check the engine cooling system.

#### 2. Engine Oil Pressure Gauge

- This gauge shows the pressure of the engine oil. The oil pressure must be at a certain level for the engine to function properly. Low oil pressure can cause wear and damage to the engine due to insufficient lubrication.

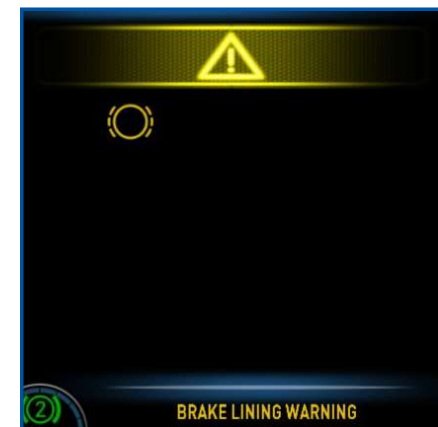
#### 3. Battery Voltage Indicator

- This indicator shows the current voltage level of the vehicle battery. If the battery voltage is too low, there may be a problem with the charging system or the battery may be weak. In such cases, contact an authorized TEMSA service center.

#### 4. Transmission Fluid Temperature Indicator (°F)

- This gauge shows the temperature of the transmission fluid in Fahrenheit (°F). Overheating of the transmission fluid can cause harsh shifting or damage to the system. Make sure the transmission fluid is within the ideal temperature range.

### Warning Panel



The warning panel informs the driver about the vehicle's operating status, faults and software. It is displayed separately on the left and right side of the instrument panel. On the left side, when doors or hatches are open, an image of the vehicle is displayed to show which door/ hatch is open. On the right side, the pictogram and a description of the fault are displayed in text format.

Turn the ignition switch to position "2" to operate the warning panel.



#### INFORMATION

Adjust warning panel brightness for a clear visibility by using Dimmer Switch located on left control panel. (See also page 35)



## 2.3.2 Instrument Panel

### Warning Panel



Front door open warning



Fire warning (locations 2)



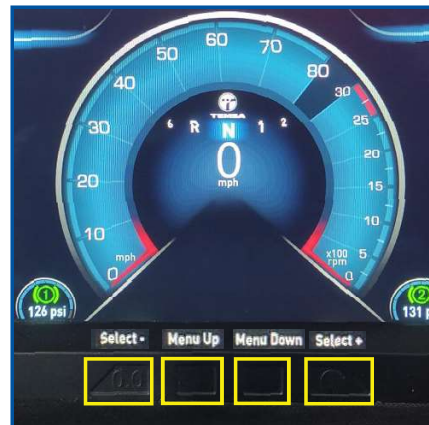
Fire warning (locations 1)



Engine lid open warning

## 2.3.2 Instrument Panel

### Display



Use the menu selection buttons to switch between pages and increase/decrease the screen brightness.

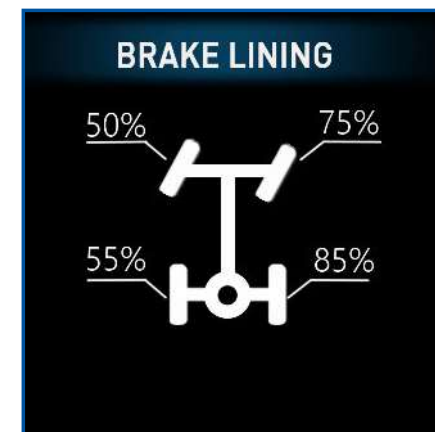
Select - : Decreases the screen brightness.

Menu Up : Navigates to the system values, brake pad, warning panel, settings menu, tire pressure, diagnostic menu sections of the warning panel on the right side, respectively.

Menu Down : Used to rewind the order of the warning panel on the right side.

Select + : Increases the screen brightness.

### Brake Lining Screen



To access this screen, press the "Menu up/Menu down" button until the screen appears.

Front left, front right, rear left, rear right and additional axle right and left brake pad levels are displayed in this menu.



### INFORMATION

Accuracy rating of brake lining sensor is %5.



## 2.3.2 Instrument Panel

### Driving Menu



" Tap select + to switch to the settings menu " When you see this text, touch the rightmost touch button on the instrument panel.

### Language



You can select the language using the touch buttons on the instrument panel by looking at the arrows below.

### Units



If you use the Up and Down arrow touch keys, you can change the country units used for USA and CA (Canada).

### Sound Volume



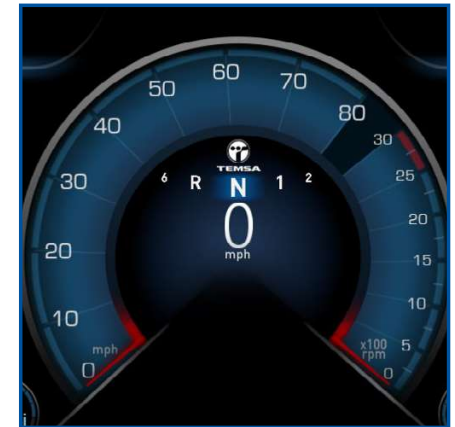
If you use the Up and Down arrow touch buttons, you can adjust the level of the vehicle's warning sounds such as right, left turn signal sounds, etc. At the same time, if you press the touch button indicated by the leftmost arrow, it returns to the previous menu.

### Screen Style

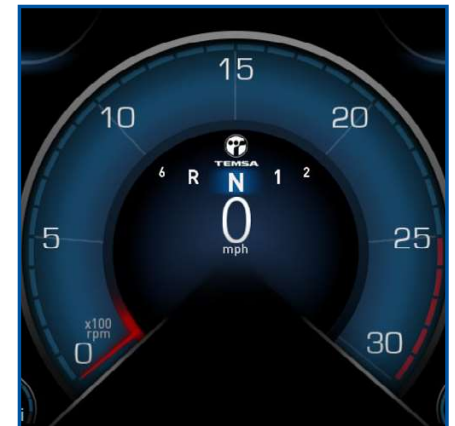


If you want both the Speedometer and Tachometer to be displayed on the driving screen, you can select Type 1. If you want only the Tachometer to be displayed, you can select Type 2 using the up and down arrow touch buttons and press the touch button on the back arrow icon to exit the settings.

### Type 1



### Type 2



## 2.3.2 Instrument Panel

### Diagnostic Menu

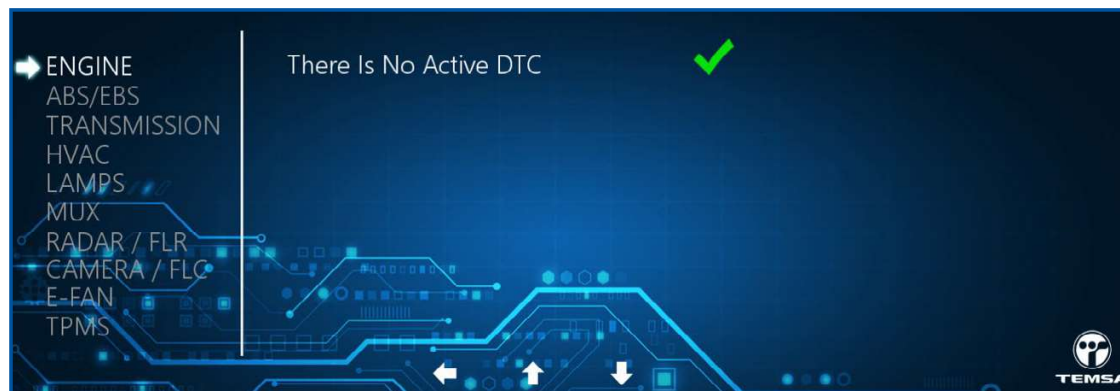


“ Tap select + to switch to the settings menu “ When you see this text, touch the rightmost touch button on the instrument panel.

The DTC display is used to notify the driver of malfunctions in the engine, transmission, brakes, electronic systems and other critical components of the vehicle.

The DTC display shows fault codes from the vehicle's sensors and indicates whether there is a fault in the system.

If a fault code is displayed, it usually indicates a problem with a specific component.



## 2.3.2 Instrument Panel

### Main Warning Panel



Engine Coolant Level Low



Brake Lining Warning



Transmission Failure



Retarder Oil Temp High



DPF Regeneration Inhibited



Range Inhibited



Service Transmission



Coolant Temperature High



Battery Voltage Low



Cooling Water Fan Failure



Fuel Level Low



Diesel Exhaust Fluid (DEF) Low



Air Filter Warning



DPF Regen Active



Low Oil Level Warning



Waste Tank Full



Engine Stop Switch Active



Lighting System failure



Drain Fuel Filter



Handicapped Lift Activated



Yellow warning lamp  
Lights up in addition to any warning lamp.

When the lamp is on, it is advised not to continue to driving. Take the necessary actions immediately for the corresponding warning lamp.



Water in Fuel Warning



Engine Oil Temperature High Warning



Diesel Particulate Filter Warning



Mux System Warning



Advanced Emergency Brake System Warning



Radar Warning



Lane Departure Camera Warning

## 2.3.2 Instrument Panel

### Main Warning Panel



Transmission Failure



Battery Voltage Too Low



Fire Warning



Engine Coolant Temperature Too High



Engine Oil Temperature Too High



Alternator Failure



Front Door Air Pressure Low



Fire Extinguisher System Warning



Engine Oil Pressure Too Low



Mux System Failure



WC Smoke Detected



Front Brake Air Tank Pressure Low



WC Emergency Button Active



Diesel Particulate Filter Failure (Too High Soot Level)



Warning lamp  
Lights up in addition to any warning lamp. Stop the vehicle immediately and consult authorized TEMSA Service.



Seat Belt Warning



Front Brake Air Tank Pressure Low

## 2.3.2 Instrument Panel

### Main Warning Panel



Front Fog Light Active



Position Lights Active



Front Brake Air Tank Pressure Normal



Rear Brake Air Tank Pressure Normal



Tire pressure monitoring system



Brake Pedal Active ( Canada Option Stop)



Halt Brake Active



Engine Brake Level 1



Foot Retarder Disable Switch Active



Retarder Active



Gear Indicator  
(N,R,1,2,3,4,5,6)



Wheelchair Lift Switch Active



ASR Disable Switch Active



Diesel Preheating Active



Central Unlock Switch Active



Adaptive Cruise Control (ACC) Active



Kneeling&Lifting Active



Hill holder Active



Lane Departure Warning System (LDWS) Active



Mirror Heating Active



Air Conditioner Active (Cool)



Interior Heating Active

## 2.3.2 Instrument Panel

| Icon                                                                                | Warning Text                     | Error Explanation                                                                             | Main Warning Panel Lamp Status                   | Voice Status |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|
|    | Cooling Water Hot                | Engine temperature is high. Engine is overheating.                                            | Warning Lamp I (Red)                             | Available    |
|    | Engine Compartment Lid Open      | Engine lid is open.                                                                           | Warning Lamp II (Yellow)                         | Unavailable  |
|    | Oil Pressure Low                 | Engine oil pressure is low or too low. Lubricating oil level is above or below specification. | Warning Lamp I (Red)                             | Available    |
|    | Transmission Temperature Warning | Transmission temperature is high. Transmission is overheating.                                | Warning Lamp II (Yellow)                         | Unavailable  |
|   | Fault Gearbox                    | General gearbox error                                                                         | Warning Lamp II (Yellow)                         | Unavailable  |
|  | Engine                           | Serious failure on engine.                                                                    | Warning Lamp I (Red)<br>Warning Lamp II (Yellow) | Unavailable  |
|  | Engine Stopped                   | Engine stop warning. Engine needs to be serviced at the first available opportunity.          | Warning Lamp I (Red)                             | Unavailable  |

## 2.3.2 Instrument Panel

| Icon                                                                                | Warning Text                              | Error Explanation                                     | Main Warning Panel Lamp Status | Voice Status |
|-------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------|--------------------------------|--------------|
|    | Electric Drive Fault 1 Alternator Down    | Alternator 1 is not charging or insufficient charging | Warning Lamp II (Yellow)       | Unavailable  |
|    | Electric Drive Fault All Alternators Down | Alternators are not charging or insufficient charging | Warning Lamp II (Yellow)       | Unavailable  |
|    | Fire Warning                              | Fire breakout on vehicle.                             | Warning Lamp I (Red)           | Available    |
|    | No Battery Charge Voltage Low             | Battery voltage is under 23 V.                        | Warning Lamp I (Red)           | Unavailable  |
|   | Cooling Water Low Check Level             | Engine coolant level is low.                          | Warning Lamp II (Yellow)       | Available    |
|  | Luggage Compartment                       | Luggage compartment lid is open.                      | Warning Lamp II (Yellow)       | Unavailable  |
|  | Air Pressure Low Front Brake              | Front axle pressure is low.                           | Warning Lamp I (Red)           | Available    |

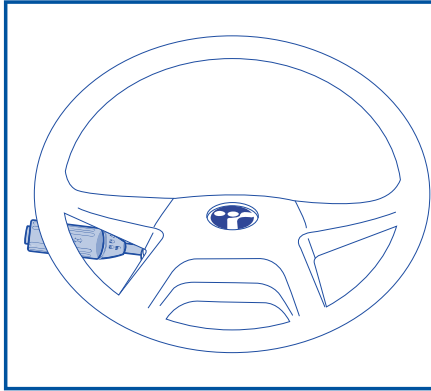
## 2.3.2 Instrument Panel

| Icon                                                                                | Warning Text                                  | Error Explanation                | Main Warning Panel Lamp Status | Voice Status |
|-------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------|--------------------------------|--------------|
|    | Air Pressure Low<br>Rear Brake                | Rear axle pressure is low.       | Warning Lamp I (Red)           | Available    |
|    | Front Door<br>Air Pressure Low                | Front door air pressure is low.  | Warning Lamp II (Yellow)       | Unavailable  |
|    | Front Brake<br>Air Pressure High              | Front axle pressure is high.     | Warning Lamp I (Red)           | Available    |
|    | Rear Brake<br>Air Pressure High               | Rear axle pressure is high.      | Warning Lamp I (Red)           | Available    |
|    | Brake Lining Insufficient<br>Check Diagnostic | Brake linings failure.           | Warning Lamp I (Yellow)        | Unavailable  |
|  | Service Air Filter                            | Air filter warning.              | Warning Lamp II (Yellow)       | Unavailable  |
|  | WC Emergency<br>Warning                       | Toilet emergency button pressed. | Warning Lamp I (Red)           | Available    |

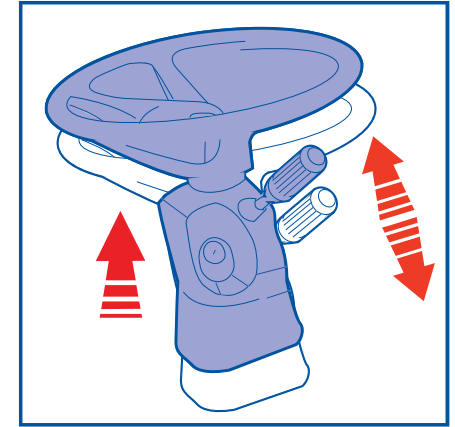


### 2.3.3 Steering Wheel Control Group

#### Steering Wheel Position Adjustment



1. Left Control Lever



To adjust steering wheel position, press “Steering Control Switch” located on left control panel. (See also page 35)

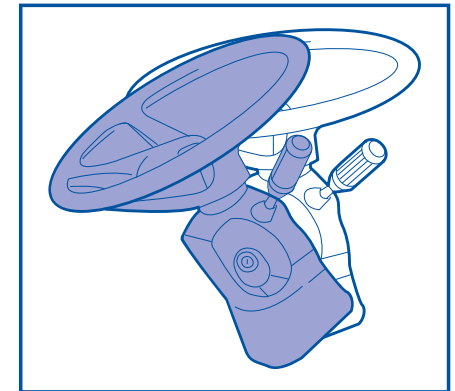
Adjust the position of steering wheel to the desired position. Press button again to lock the mechanism.

It is suggested to adjust the position of driver’s seat, before adjusting the steering wheel position.



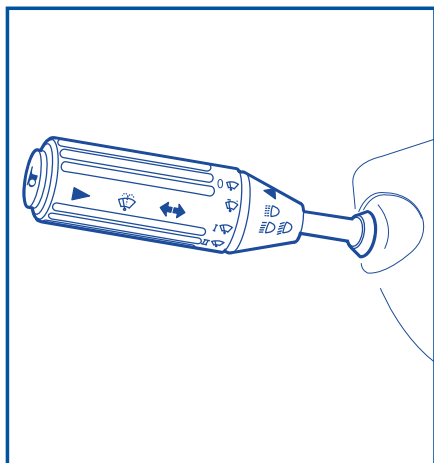
#### WARNING

- Never drive before relocking the mechanism.
- Steering wheel adjustment must be performed only when the vehicle is stationary and the parking brake is set.



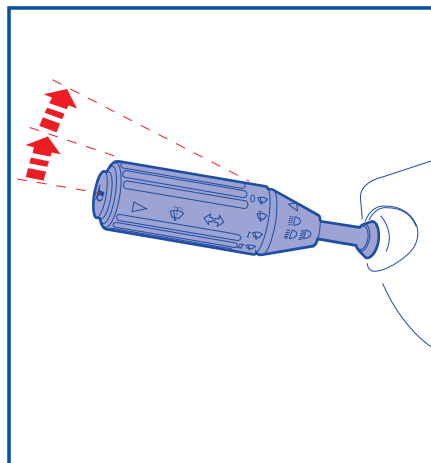
### 2.3.3 Steering Wheel Control Group

Left Control Lever



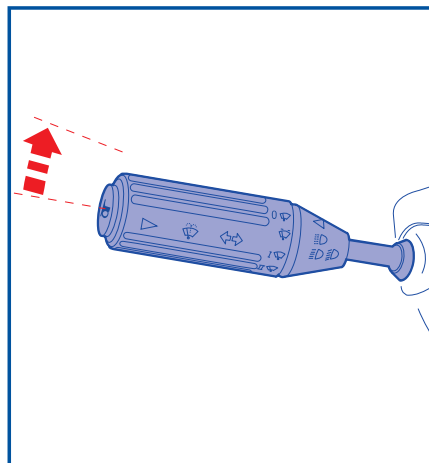
Enables the control of headlamps, upper beam headlamps, turn signals, horn and windshield wipers.

High Beam Headlamps



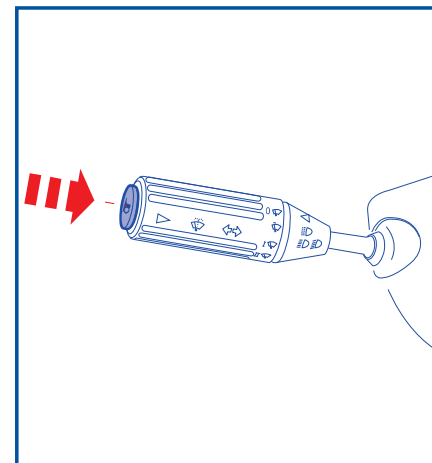
To turn on upper beam headlamps continuously push the control lever to second level.

Headlamp Flasher



Push the control lever to the first level. The lever returns to “Off-Position” when it is released.

Horn



Press button to activate the horn briefly.



#### INFORMATION

None of the functions can be used when the ignition key is switched off.



#### VISUAL INSPECTION



Warning lamp located on warning panel illuminates when the high beam headlamps are on.



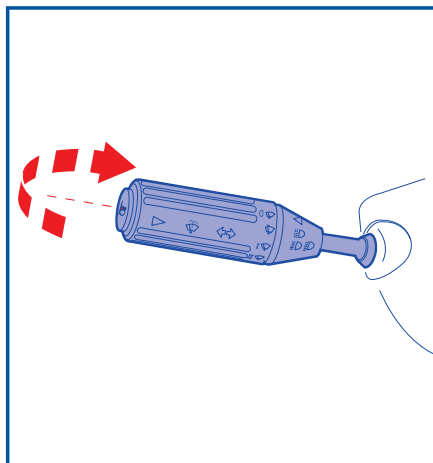
#### VISUAL INSPECTION



Warning lamp located on warning panel illuminates unless the lever is released.

## 2.3.3 Steering Wheel Control Group

### Right Turn Signal



Move the control lever forward to utmost degree to activate right turn signal.

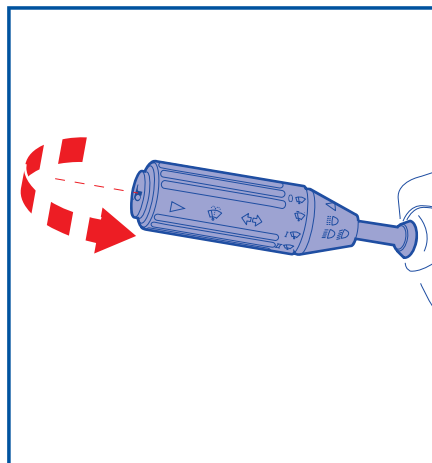


#### VISUAL INSPECTION



Corresponding warning lamp located on warning panel flashes as long as right or left turn signal lever is activated.

### Left Turn Signal



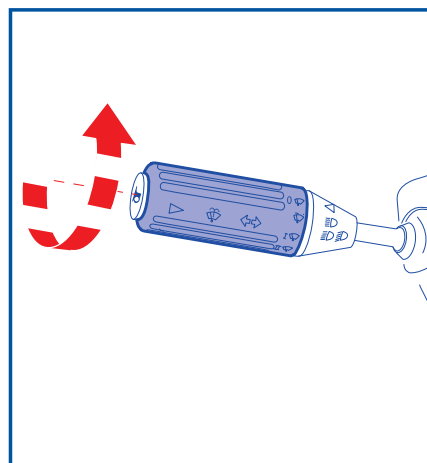
Move the control lever toward you to utmost degree to activate left turn signal.



#### INFORMATION

When the steering wheel is turned to its normal position, turn signal is switched off automatically.

### Windshield Wiper



Adjust the speed of wipers by rotating the front part of control lever in the direction of the arrow.

0: Windscreen wipers are off.

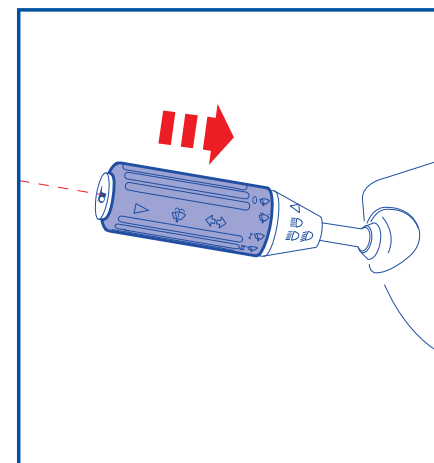


: Intermittent

I: Slow wiping

II: Fast wiping

### Windshield Washer



Push the lever in the direction of the arrow to spray washer fluid and activate the windshield wipers to wipe three times.

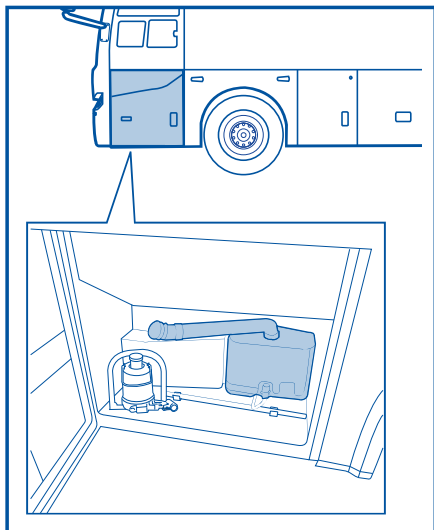


#### INFORMATION

To wash and wipe the windshield continuously, push the front part of the lever toward steering column.

## 2.3.3 Steering Wheel Control Group

### Windshield Washer Fluid



Open the access hatch. Pull the cap of the tank and pour the fluid into it.



#### **WARNING**

Always use clean and filtered washer fluid.

Details about the lubricant requirements are given in the Warranty Manual.

If pure water is used as windshield fluid then.

Fluids containing antifreeze additives can be added at temperatures below 8 °C.

## 2.3.4 Lateral Control Panel

### 2.3.4.1 Parking Brake

### 2.3.4.2 12V Electric Socket

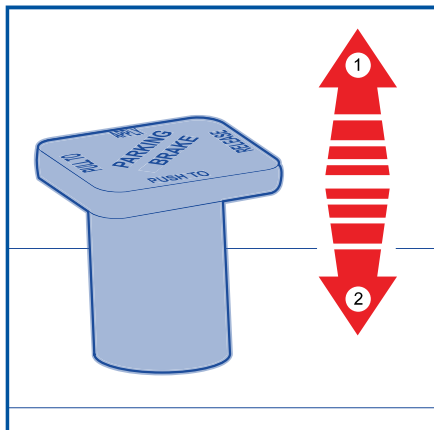
### 2.3.4.3 Cup Holder

### 2.3.4.5 Mirror Heating

### 2.3.4.6 Rear View Mirror Control Switch



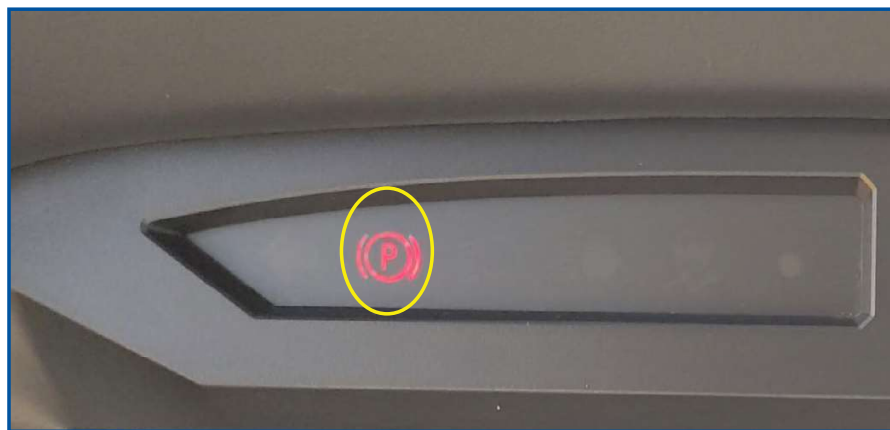
### 2.3.4.1 Parking Brake



Prevents the vehicle from sliding after it is brought to a stop.

To activate the parking brake, pull the lever upwards (1).

To release the parking brake, push the lever downwards (2).



#### VISUAL INSPECTION



“PARKING BRAKE” lamp located on indicator panel lights up when the parking brake is activated. It turns off when the parking brake is released.



#### WARNING

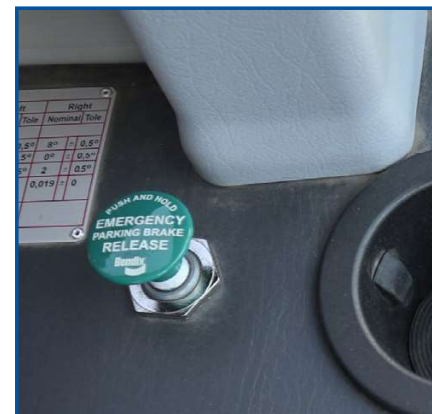
Check the air pressure of the system if the warning lamp does not turn off although the parking brake is released. In such a case consult an authorized TEMSA Service Dealer before continuing to drive.



#### WARNING

Never activate the parking brake while driving except in emergency situations.

### Emergency Parking Brake



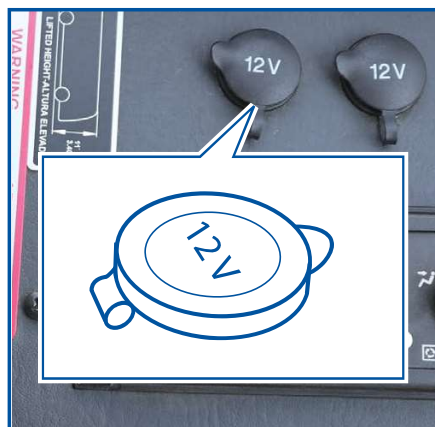
Emergency Parking Brake Release valve is an additional safety measure ensuring that the vehicle can be moved safely if the main air park brake system fails.



#### WARNING

- As long as the button is pressed, the air in the additional air tank of the system is sent to the parking brake lines to deactivate the parking brake. The button must be held down for activation of the button. Otherwise, the parking brake is activated again.

### 2.3.4.2 12 V Plug



Supplies 12 V DC when the ignition key is switched to position “1” or “2”. Use only accessories such as phone charger, coolers, fans etc. Maximum available current is 10 A.



#### **WARNING**

- Check the technical properties of the equipment before inserting into the socket.
- Always keep the cap of the electric socket closed after use.

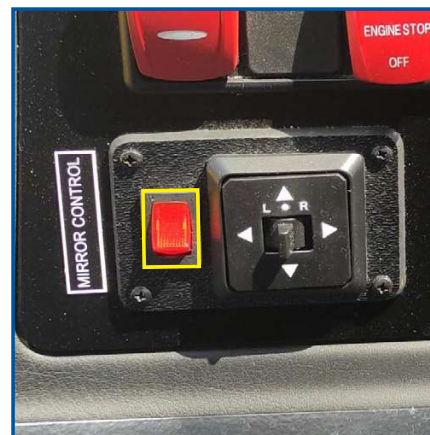
### 2.3.4.3 Cup Holder



#### **WARNING**

- Liquid inside the cup may spill in case of sudden acceleration or braking.
- Hot liquid could cause injury and accident.

### 2.3.4.4 Mirror Heating

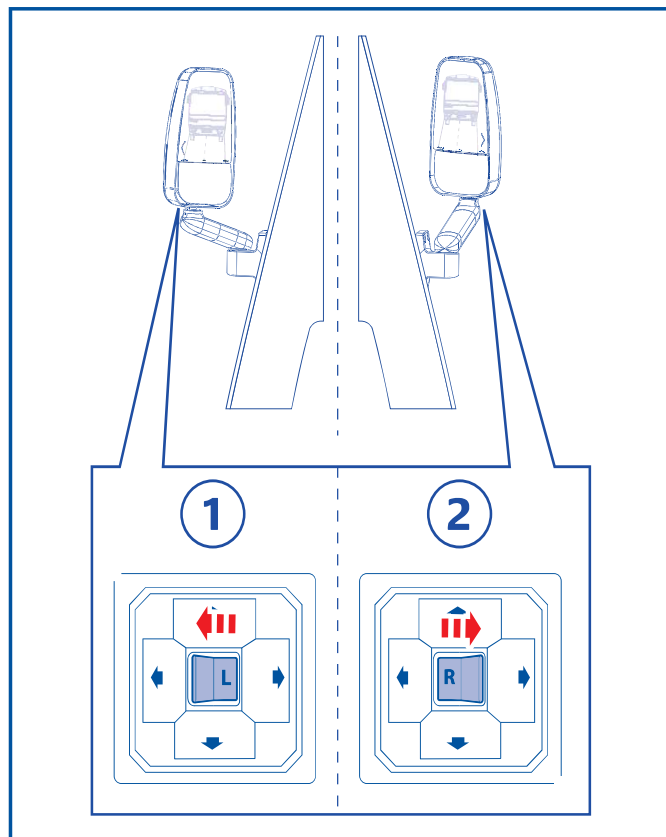


Press the switch to activate rear view mirror heater. When it is activated, the heater inside the mirror operates for only 10 minutes. Pressing switch again within 10 minutes, deactivates the mirror heating system.

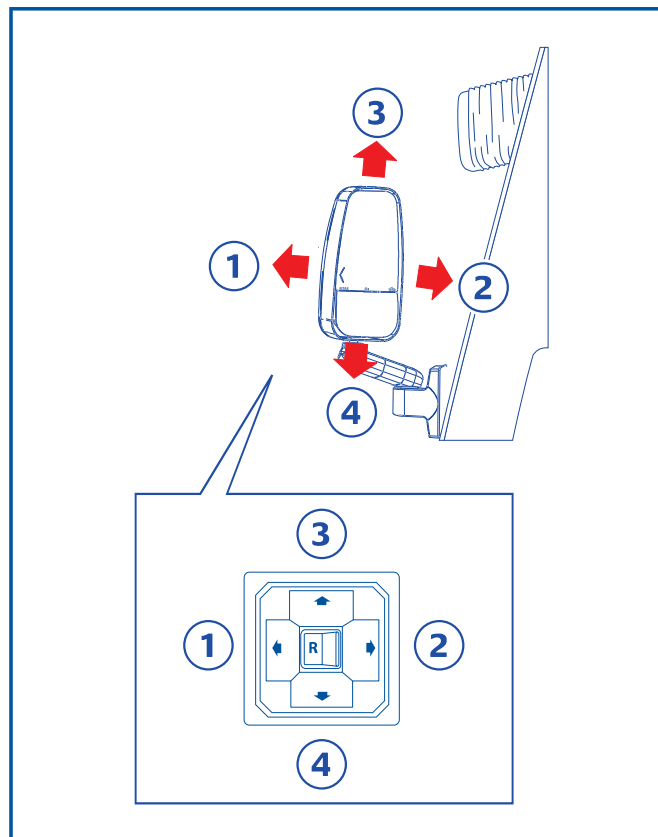


## 2.3.4.5 Rear View Mirror Control Switch

### Mirror Control Switch



- 1 Left Rear View Mirror  
2 Right Rear View Mirror



- 1 Left  
2 Right  
3 Up  
4 Down

Adjust position of the bottom mirror by using the switch. Mirror moves in the same direction as the arrows on the switch.

Rotate the switch to select left or right mirror. The Upper mirror can be adjusted manually.



## Defroster Control Panel



Working procedure ;

1. The ignition is activated in open position
2. Fan must be on for defroster cooling
3. The temperature stage needs to be in the blue field
4. The fan must be open in the heating and the temperature stage must be in the red area



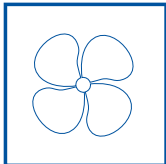
### Temperature Adjustment Button

Rotate knob to adjust temperature.

Blue: Cold air  
Red: Hot air



Press button to direct the air to the windows, for defrost and lower side of the driver.



Fan Speed Button  
Press button to adjust current fan speed.



Press the button to direct the air towards the windshield for defrost

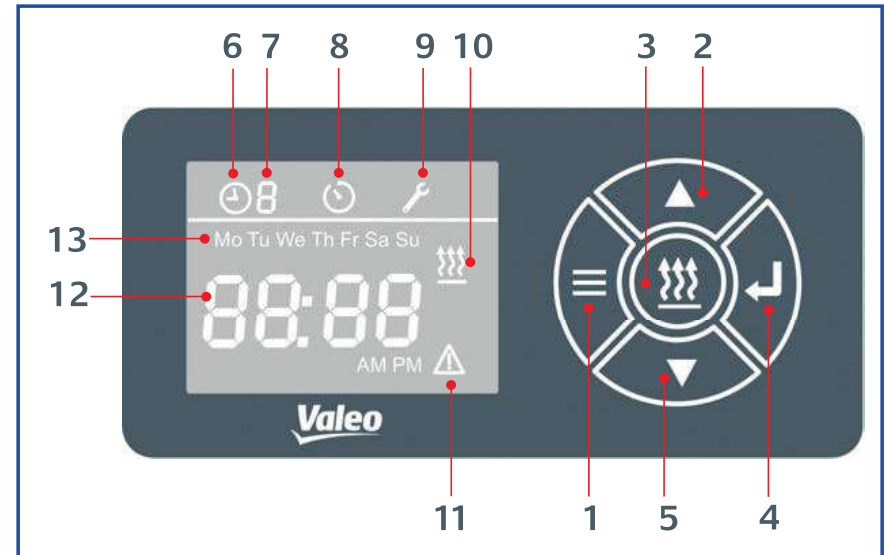


Press button to direct the air to the upper side of the driver.



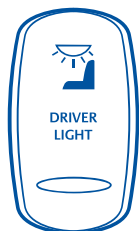
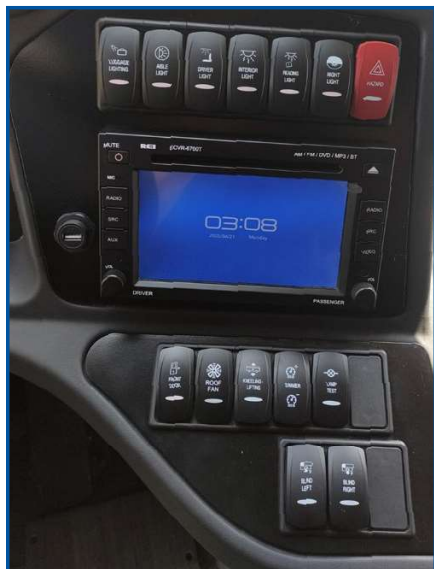
### INFORMATION

Refer to user's manual of defroster control panel delivered with the vehicle for more information.



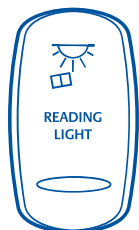
1. Menu button
2. Selection button UP
3. Instant heating button
4. Confirmation button
5. Selection button DOWN
6. Preselection time
7. Active preselection time
8. Operation duration
9. Settings
10. Heater is on
11. Error message
12. Time
13. Weekday

## 2.3.5 Right Control Panel



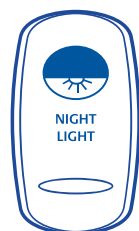
### Drivers Reading Lamp Switch

Press upper side of the switch to turn drivers reading lamp on.



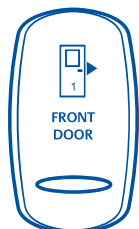
### Reading Light Switch

Turns on passengers' reading lights.



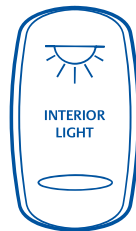
### Night Light Switch

Turns on night lights.



### Front Door Control Switch

Opens the front door from driver's compartment.



### Interior Light Switch

Turns on corridor lamps.

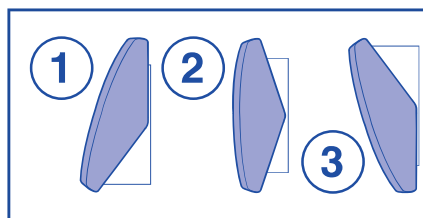


### INFORMATION

**1st Position:** Activates three lamps on right hand side and three lamps on left hand side.

**2nd Position:** Activates one lamp on right side and two lamps on left side.

**3rd Position:** Off Position



### Hazard Warning Flasher Switch

Press upper side of the switch to activate hazard warning flashers.

When the switch is pressed, indicator led on the switch, turn signal indicators on the indicator panel and all signal lamps start flashing.

Press lower side of the hazard warning flasher switch once again to deactivate flashers.



### INFORMATION

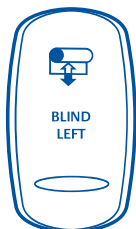
Hazard warning flashers can be activated even if ignition key is removed.



### INFORMATION

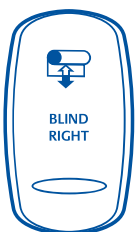
Hazard warning flashers are also activated when the "Emergency Stop Switch" is pressed.

## 2.3.5 Right Control Panel



### Blind Left Switch

Press upper side of the switch to move the sun visor upwards. Press lower side of the switch to move it downwards.



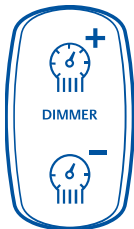
### Blind Right Switch

Press upper side of the switch to move the sun visor upwards. Press lower side of the switch to move it downwards.



### WARNING

Using passenger side sun visor limits the driver's view on the right rear view mirror. It may cause accidents.



### Dimmer Switch

Press upper side of the switch to increase illumination of instrument panel.



To illuminate instrument panel, parking light switch must be activated.



### Lamp Test Switch

It is being used to activate all the exterior lamps on the coach. When the driver activate this switch, he can check whether all the exterior lamps are activated or not



### Kneeling Lifting Control Switch

Press lower side of the switch to perform kneeling function.



### Roof Fan Switch

Press the button to activate the roof fan switch. This switch controls the fan on the roof of the car. The fan works to create a more comfortable environment in the car by removing humid, stuffy or hot air from the interior.

## 2.4 Keys

3 different keys are provided with the vehicle.

In case the keys get lost, consult authorized TEMSA Service to order.



### OPTION

Keys of new additional equipment may be different from those indicated in user's Manual.

**Fuel Tank Access, Front Door, Engine Compartment, Service Hatch Key and Glove Box Key**

