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### Introduction

Dear user:

Thank you for selecting ZM Trucks vehicles!

Review this Owner's Manual carefully before driving to familiarize yourself with the structure and features of the vehicle, understand the proper usage, service and maintenance of the vehicle, and get the best driving experience.

The configuration or name of the vehicle purchased may not be the same as those illustrated or described in this Owner's Manual. ZM Trucks reserves the right to change the shape, configuration, and technical performance of the vehicle at any time. We reject any claim based on the data, illustrations or text descriptions in this manual. We will continuously modify the contents of this Owner's Manual according to vehicle updates.

Have a wonderful trip!

No part of this Owner's Manual may be reproduced or duplicated without the written consent of ZM Trucks.

#### NOTE:

Cover art and images found within this manual are for reference only. Details are subject to each unique vehicle.

### **Notes To Users**

The vehicle is a battery powered electric truck. Follow relevant warnings and instructions specified in the Owner's Manual (hereinafter referred to as "this manual") to avoid vehicle damage or personal injury.

Before using the vehicle for the first time, read this manual carefully. If you find any problems during use, call the ZM Trucks service hotline.

The copyright of this manual is owned by ZM Trucks. No part or the entirety of this manual may be reproduced or duplicated without prior written consent of ZM Trucks.

We reserve the right to modify the contents of the manual without prior notice. Users can visit the following official website to obtain the latest electronic owner's manual, to access the latest vehicle information.

Official website: www.zo-motors.com

# **Warning Description**

### Warning

#### Warning

Warning signs indicate hazards that may cause personal injury or danger to your life or others.

#### **Attention**

#### ATTENTION:

Attention signs indicate dangerous actions that may cause damage to the vehicle.

#### Note

#### Note

Note signs indicate helpful tips or useful details.

#### **Environmental Protection**

The environmental label reminds you that the content stated here is related to environmental protection.

#### **Asterisk**

An asterisk "\*" appearing after a title or name indicates that the configuration or function described is only applicable to some models and may not be equipped in this vehicle.

#### **Illustration Information**



This arrow indicates the exact location of the object as shown in the picture.



This arrow indicates the movement direction of the object as shown in the picture.



This arrow indicates the rotation direction of the object as shown in the picture.



This arrow indicates the flipping direction of the object as shown in the picture.

### **Environmental Protection**

ZM Trucks is committed to contributing to global sustainable development and environmental protection by providing vehicles that promote efficient energy consumption. You can also contribute to

environmental protection if you drive the vehicle in a way that does no harm to the environment.

# **Operation Safety And Permit**

The weight limit should be strictly observed. Do not overload the vehicle as overloading can lead to vehicle breakdown, damage, and may even cause personal injury.

Before driving, be sure to adjust the seat. The vehicle may lose control due to driving fatigue or unexpected seat movement. The adjusted seat position should not interfere with proper seat belt usage.

Seat belts are the best protection device in all types of collisions. Seat belts can effectively protect drivers and passengers by avoiding and reducing injuries. Therefore, it is important to ensure that you and other passengers in the vehicle are always wearing seat belts correctly.

The seat belt should be replaced immediately (even if not damaged) in collisions where impact force is exerted on the seat belt.

#### Warning

Do not coast downhill in neutral gear. Coasting downhill while in neutral gear could lead to serious injury or death.

#### Warning

The maximum driving speed should not exceed 18 mph (29 kph) in any one of the following situations:

- When entering and exiting non-motorized lanes or passing through railway crossings, sharp curves, narrow roads, and narrow bridges.
- When making a U-turn, turning, or going down a steep slope.

(Continued)

#### Warning

- When encountering fog, rain, snow, dust, or hail with a visibility of less than 164 ft. (50 m).
- When driving on icy/snowy or muddy roads.
- When towing a malfunctioning motor vehicle.

# **Original Parts**

ZM Trucks will not be liable for the warranty of relevant parts in any of the following situations during the warranty period:

- Unauthorized modification of vehicles, especially systems related to driving safety. This includes the high-voltage systems, electrical appliances, braking, steering, and TBOX.
- Tampering with the vehicle's OBD system.
- Use of regular parts and fluids not designated by ZM Trucks which could cause potential safety hazards or vehicle damage after testing.
- Users cannot provide documentation showing the continuous use of compliant fluids within the warranty period, or the materials provided are invalid or obviously inconsistent with the driving mileage and time of use.
- Failure to have the vehicle maintained and serviced in a ZM Trucks authorized service station in accordance with the regulations.

# **Data Security**

In accordance with laws, administrative regulations and other provisions, vehicle data such as driving behaviors, audio, and video as well as personal information collected will be protected by ZM Trucks in compliance with legal requirements and national or industrial technical standards.

### **Vehicle Modification**

### **Materials Required Prior to Modification**

Vehicle modifications should meet the technical requirements of vehicle modification, and necessary instructions and technical materials should be delivered to ZM Trucks.

At a minimum, the following should be included in the technical materials provided:

- The purpose and working condition of the modified vehicle.
- The total weight and axle load of the modified vehicle.
- The outline dimensions (including working condition) of the modified vehicle.
- The height of the bodywork bottom plate on the wheel of the modified vehicle.
- The fixing mode of the bodywork of the modified vehicle.
- The schematic diagram of the subframe of the modified vehicle.

# **Vehicle Scrapping**

Vehicles that no longer meet the conditions for driving should be scrapped in accordance with national environmental protection regulations requirements.

Before vehicle scrapping, please contact a ZM Trucks authorized service station to consult the related matters.

#### Warning

The vehicle scrapping must be performed by ZM Trucks or the relevant certification authorities. If the vehicle is not scrapped in the correct way, it may lead to accidents such as fire.

### **Recycle of High Voltage Battery**

ZM Trucks will test the capacity and condition of the high voltage battery, and recycle according to applicable laws, regulations, and market conditions at that time.

**Recycling of high voltage battery:** Recycling and processing should be done by ZM Trucks or a third-party recycling organization designated by ZM Trucks.

#### Transportation of High Voltage Battery

High voltage batteries should be transported by a professional transportation agency. Please contact the ZM Trucks authorized service station to notify a professional recycling agency about processing.

#### Warning

- Do not dispose of or discard the used high voltage batteries to avoid accidental fire or serious pollution to the environment.
- Do not hand over used high voltage batteries to other units or individuals. You will be held responsible for any environmental pollution or safety accidents caused by disassembling high voltage batteries without permission.

# **ECO Driving**

The driving range of the vehicle can be improved in the following ways:

- Drive the vehicle at a constant speed and avoid sudden acceleration and braking.
- Regularly maintain the vehicle.

# Winter Driving

### **Preparation for Winter Driving**

- Use high-quality coolant based on the lowest temperature. The freezing point of the coolant should be lower than the local minimum temperature.
- Ensure that the battery is fully charged at all times to prevent the battery from freezing under low temperatures.

#### Use of Vehicle Coolant in Winter

In cold weather conditions, the coolant properties of the coolant should be ensured. Please use the coolant recommended by ZM Trucks.

### **Precautions for Winter Driving**

- It is recommended to use tire chains or snow tires.
- Avoid sudden acceleration, sudden braking, and sharp turns while driving.
- When driving in icy weather conditions, keep driving at a low speed to ensure better service braking.

 Maintain a reasonable distance between vehicles (increase the distance between vehicles as driving on rainy and snowy days or icy roads may increase the service brake distance).

# **Driving In Tropical And High-**Temperature Areas

Please check the condition of the vehicle before driving:

- Ensure the coolant level is within the normal range and check for leakage.
- Do not leave flammable and explosive materials (lighters, perfumes, etc.) on the instrument panel for a long time, and avoid exposure to direct sunlight as this may cause explosions under high temperatures and lead to fires

Be aware of the following while driving:

- Do not drive in a fatigued state and take regular breaks. When driving on asphalt roads which have softened, tires may have reduced traction. Make sure to reduce speed and gently depress brake pedal with hazardous road conditions.
- Monitor the indicators and warning lights in the instrument cluster, and if the vehicle-related malfunction indicator lights (MILs) or warning lights become illuminated, stop driving immediately and contact a ZM Trucks authorized service station.
- Note the tire pressure and tire temperature. If the tire pressure or tire temperature is abnormal, immediately stop driving and let the tires cool down. Do not depressurize and cool down tires by spraying

#### **10** BEFORE DRIVING

water or deflation. Doing so will accelerate tire aging and wear and may result in tire blowout in severe cases.

 If a tire blowout happens while driving, immediately press the hazard warning switch, hold the steering wheel without turning, and depress the brake pedal intermittently several times to warn other drivers and pedestrians.

# **Driving On Bumpy And Slippery Roads**

Be aware of the following when driving on bumpy and slippery roads:

- When driving on bumpy roads, maintain low speeds to avoid accelerating the wear in shock-isolating system components.
- When driving on slippery roads, maintain low speeds and apply brakes carefully to avoid traction loss.
- When traction loss happens on wet and slippery roads, apply service brake to slow down the vehicle.

### **Use Of Tire Chains**

When using tire chains, pay attention to the following:

- Use tire chains when driving on roads covered with thick layers of snow or ice.
- The specification of tire chains should match the specification and model of tires.
- The tire chains should be positioned on the left and right outer tires
  of the driving wheels.

- Be careful during the removal and refitting of tire chains to ensure tires are not damaged in the process.
- After installing the tire chains, inspect the chains for looseness and ensure the tires are not improperly mounted.

#### Warning

When using tire chains, it is forbidden to exceed the maximum effective driving speed to avoid accidents.

#### ATTENTION:

- When driving on long roads without snow and ice, remove the tire chains.
- The tire chains should not interfere with other parts of the vehicle while driving.
- The removal and refitting of tire chains should be carried out after parking on level roads.

# **Ramp Driving**

### **Precautions for Uphill Driving**

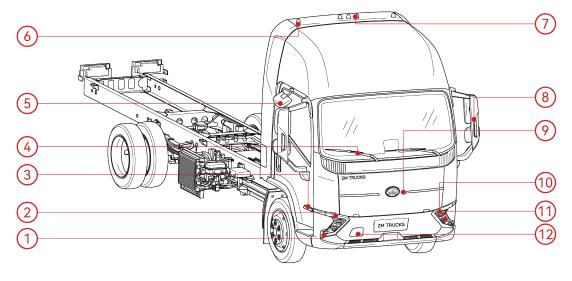
- If the vehicle slips when accelerating on a ramp, immediately depress the brake pedal, turn on the electronic parking brake, and then start the vehicle.
- When driving uphill, maintain low even speeds and press down on the accelerator firmly. Do not accelerate or brake suddenly.

### **Precautions for Downhill Driving**

 Before driving downhill, reduce the vehicle speed so that the vehicle can go into the downhill grade safely.

- Do not coast in neutral gear when going downhill. Otherwise, it will endanger your life.
- Check that brakes are working correctly to ensure a safe stop.
- Do not rotate the steering wheel sharply on downhill roads, as it is easy to cause rollover accidents.
- In case of long downhill driving, do not depress the brake pedal frequently, as depressing the brake pedal continuously for a long time may cause the brake to overheat and fail.

### **Overview Of Exterior**



1 — Front Fog Lamp

4 - Windshield Wiper

- 7 Front Identification Lamps
  - 10 Low Beam

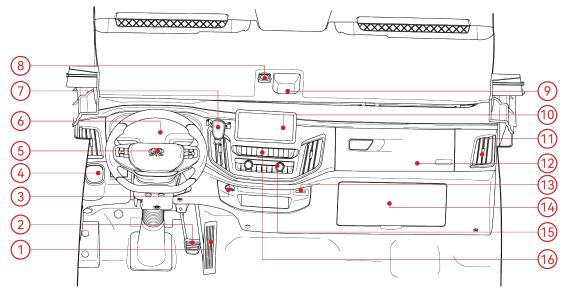
- 2 Daytime Running Lamp/Turn Signal Lamp
- 5 Close-proximity Rearview Mirror
- 8 Rearview Mirror

11 - High Beam

- 3 Front Side Marker Lamp/Front Reflector
- 6 Front Clearance Lamp

- 9 Front Cowl Panel
- 12 Towing Hook Cover

### **Overview Of Interior**



1 — Accelerator Pedal Brake Pedal

3 - Power Outlet

5 - Multifunction Steering Wheel

6 - Instrument Cluster

7 - Mobile Phone Holder

4 - Cupholder 8 - Light Sensor 9 - ADAS

10 - Multimedia Screen

11 - A/C Air Outlet

12 - Instrument Panel Storage Box

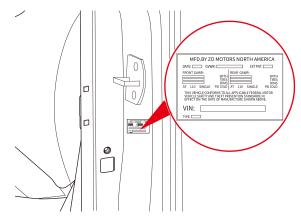
13 - USB Port

14 - Access Cover

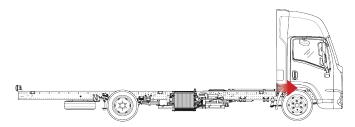
15 — A/C Switch Group

16 - Central Control Switch Group

The nameplate is located on the left side of the cab, at the lower end
of the door lock buckle.

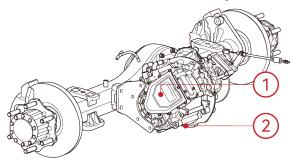


 The nameplate specifies the manufacturer, vehicle model, vehicle identification code, curb weight, FAW, RAW, and date of manufacture.



 The vehicle identification number (VIN) is engraved near the centerline of the front axle at the outer side of the frame right side member.

# **Location Of Motor Nameplate**



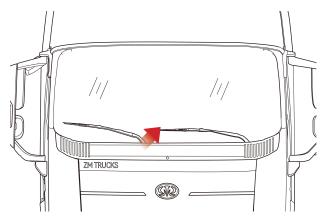
- 1 Location of Motor Nameplate
- 2 Location of Motor Serial Number (SN)

The motor SN is located at the bottom of the motor.

#### ATTENTION:

- The motor rubbing code is attached to the motor manual when the vehicle leaves the factory. Keep it in a safe place.
- · As motors from different manufacturers vary from each other, their relevant information is also different. Please refer to the actual product.

### Sensor Zone On Vehicle



The sensor zone is located in the at the bottom of the windshield.

The sensor zone stores relevant information about the vehicle. Please keep the windshield clean and ensure foreign objects are not blocking the sensor zone.

# **Driving Preparation**

Before using the vehicle:

- Check the connection and fastening of each part.
- Check for abnormal motor noises during operating.
- Check the installation of the accessories
- Check the fluid level in the windshield washer and coolant reservoir.
- Make sure the brake system and steering system are working properly.
- Ensure the electrical equipment and pipelines are well connected.
- Check tire pressure.
- Make sure the driver's tools and on-board technical literature are complete.

### **Driver's Seat**

#### **Function Introduction**

You can adjust the driver's seat according to your personal needs and preferences for a more comfortable driving experience.

### Operating Instructions — Driver's Seat



#### 1. Seat Forward/backward Adjustment Lever

Lift the seat forward/backward adjustment lever to move the seat. After adjusting the seat to the appropriate position, release the adjustment lever to lock the seat.

#### 2. Airbag Locking Handle

When the airbag fails or is not needed, pull up the locking handle to lock the airbag. Reset the handle to release the airbag.

#### 3. Adjustable Driver Seat Armrest

Rotate the knob on the lower front of the armrest to adjust the height of the armrest. The armrest can be completely folded by lifting it backward.

### 4. Backrest Angle Adjustment Handle

Move the handle up to unlock the backrest and adjust the backrest angle. Release the handle to lock the backrest at the adjusted angle.

#### **Rear Cushion Height Adjustment Handle**

Move the handle upward to adjust the rear height of the seat cushion. Release the handle to lock the seat at the adjusted height.

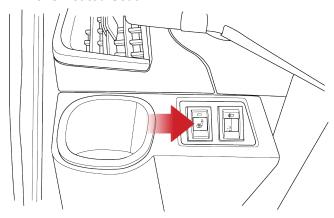
#### Front Cushion Height Adjustment Handle

Move the handle upward to adjust the front height of the seat cushion. Release the handle to lock the seat at the adjusted height.

#### Weight Adjustment Knob

Turn the knob to make the number equal to the driver's weight.

#### **Driver's Heated Seat**



The driver's seat heating switch is located on the left side of the instrument panel. Press the button to turn On the heated seat.

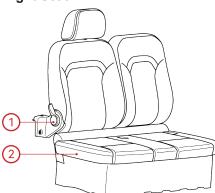
#### Middle Seat



You can rotate the backrest locking handle clockwise to unlock the middle seat backrest and lay down the middle seat completely. Continue to rotate the backrest locking handle further to lift the middle seat backrest to the maximum opening position and release the backrest locking handle to lock the middle seat.

After the middle seat is fully folded, you can use the cup holder and storage box behind the middle seat backrest.

### **Right Seat**



#### 1. Backrest Locking Handle

Rotate the backrest locking handle clockwise to unlock the right seat backrest and lay down the right seat completely. Continue to rotate the backrest locking handle to lift the right seat backrest to the maximum opening position and release the backrest locking handle to lock the middle seat.

#### 2. Right And Middle-Seat Cushion

The right and middle-seat cushion is an integral part, and there is a storage box underneath the cushion. The seat cushion can be flipped up to open. If you need to restore the cushion to the original position, first flip the cushion to the maximum opening and unlock it before resetting.

#### **Precautions**

#### Warning

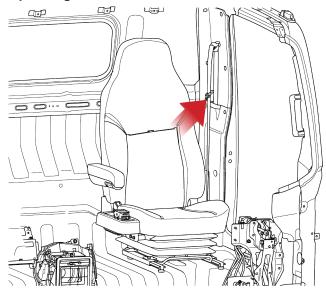
- Do not adjust the driver's seat while the vehicle is in motion.
   Otherwise, it may cause the vehicle to lose control, resulting in accidents.
- The driver's seat should be adjusted correctly to ensure proper pressing of the brake pedal.
- Before driving, please shake the seat and seat backrest back and forth to ensure that all parts are locked in place. Otherwise, injury may occur in the event of an accident or sudden braking.
- Before moving the driver's seat, make sure that the seat movement area is unobstructed to prevent damaging items or pinching occupants.

### **Seat Belts**

#### **Function Introduction**

This vehicle is equipped with three-point seat belts for the driver seat and passenger seat, and a lap belt for the middle seat. Wearing seat belts properly can prevent or mitigate the severity of injuries to occupants during emergency braking or vehicle collision.

### **Operating Instructions**



The drive-side seat belt is located on the left side, and the passengerside seat belt is located on the right side. Pull out the seat belt and connect it into the buckle

Wearing a three-point seat belt should meet the following requirements:

The seat belt should fit closely to your body and not be twisted.

- The lap belt should fit low across the pelvis (i.e. hip) rather than across the abdomen.
- The shoulder portion of the seat belt should fit across the middle of the shoulder.
- Pull up on the shoulder belt, fitting it closely to the hip.
- Never position the seat belt across the neck or armpit.
- Check whether the seat belt is fully buckled before driving.

The middle seat only has a lap belt, and the passenger needs to adjust the length of the seat belt by themselves. When there are passengers sitting in the middle and right seats, inform them of the importance of wearing seat belts.

#### Seat Belt Reminder

The driver, middle, and passenger seats are equipped with a seat belt reminder function. When the driver or passengers are not wear seat belts, the seat belt reminder indicator will display in the instrument cluster until the seat belt is buckled.

### **Cleaning Seat Belts**

If the seat belt is dirty, you can clean it using foam cleaner, toothpaste or mild soapy water.

Pull out and latch the entire seat belt, spray detergent evenly in the contaminated area of the seat belt, brush it carefully with a soft brush. Rinse the seat belt with clean water after brushing and release it once the surface of the seat belt is completely dry.

#### **Precautions**

#### Warning

When the vehicle is driving, all occupants must wear seat belts correctly. Wearing seat belts properly during emergency braking or accidents can mitigate the severity of injuries to passengers.

- Improper use of a seat belt or failure to wear a seat belt may result in severe causalities!
- Do not sit in an area not equipped with a seat and seat belt or in a seat with a damaged seat belt.
- Each seat belt is only allowed to be used by one person. Do not share a seat belt with more than one person.
- Do not hang the shoulder belt around the neck or under the armpit.
- Do not remove, disassemble and modify seat belts.
- Do not use bleach, dyes, or chemical solvents to clean seat belts.

# **Remote Control Key Fob**

#### **Function Introduction**

This vehicle is equipped with a key fob, which can remotely lock and unlock the vehicle within a certain range.

### **Operating Instructions**



#### Mechanical Key

When the vehicle is powered on, you can start the vehicle with the mechanical key.

#### Mechanical Key Release Button

Press this button to release the mechanical key.

#### Remote Locking Button

Press this button to lock all doors. All turn signal lights will flash once.

#### 4 Panic Button

When the vehicle is locked, press this button to sound the horn and flash the turn signal lamps. Press the Unlock button to the Panic function

#### 5. Remote Unlocking Button

Press this button to unlock all doors. All turn signal lights will flash twice

### **Key Programming**

- Set the ignition switch to Lock position. All doors must have been closed for more than five seconds
- Open and close the left door.
- Turn the key from Lock-On-Lock position three times, and finally, stay in the Lock position.
- 4. In this case, the vehicle will now enter learning mode, and all turn signal lights will flash once.
- Press any button of the key fob. The vehicle will have learned the new key fob. Then, do the same process with the other key fobs.
- Open the right door or turn the ignition switch to any position other than Lock to exit the learning mode. If the learning is successful, all turn signal lights will flash once.

#### **Precautions**

#### ATTENTION:

 If the key is lost, please go to an authorized service station in time to cancel authorization of the lost key and order a new key.

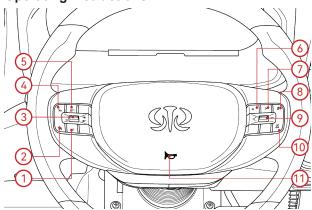
- The vehicle can be controlled by two keys at most, and the steps before entering the key learning mode are required to be completed within 20 seconds.
- To ensure the reliability of remote key learning, please perform remote key learning operations within a three-meter range of the vehicle.
- Place your fingers at a suitable position so the key is not inaccessible or difficult to operate.

# **Multifunction Steering Wheel**

#### **Function Introduction**

The vehicle is equipped with a multi-function steering wheel, allowing you to easily control certain functions in the vehicle.

### **Operating Instructions**



- 1. SET+ Pressing this button activates cruise control or reduces the cruise control speed.
- 2. Press this button to turn off the cruise control system.
- 3. Pushing up can increase numbers or return to the previous interface on the cluster display.
  - Pushing down can decrease numbers or switch the interface on the cluster display.
  - OK Press this button to enter the selected interface or exit the current interface.
- 4. Press this button to activate the cruise control system.

- Press this button to activate cruise control or increase the SET+ cruise control speed.
- Press this button once to reduce the frequency band by 0.1MHz. Press and hold for two seconds to automatically search for the previous valid radio station.

Pressing once in music/video mode will play the previous music/ video.

Press this button once to increase the frequency band by 0.1MHz. Press and hold for two seconds to automatically search for the next valid radio station.

Pressing once in music/video mode will play the next music/video.

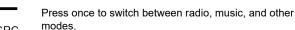


Press this button to answer a call.



Pushing up can increase the volume.

Pushing down can reduce the volume.



SRC



Press once to mute the system or hang up the phone.

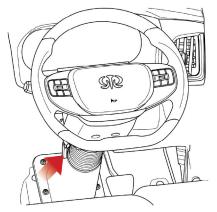
Press this area to honk the horn

# Adjusting The Steering Wheel

#### **Function Introduction**

The steering wheel can be adjusted forward, backward, up, and down to suit your driving needs.

### **Operating Instructions**



- Pull up on the steering wheel adjustment handle to unlock the steering wheel.
- 2. Adjust the steering wheel to an appropriate position according to your needs.
- 3. After the adjustment is completed, push down on the steering wheel adjustment handle to lock the steering wheel.

### **Precautions**

#### Warning

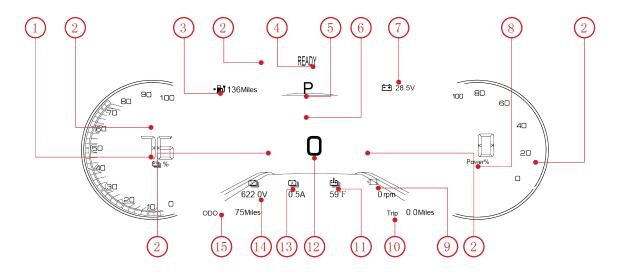
• Never adjust the steering wheel while driving to avoid accidents.

(Continued)

#### Warning

 After adjusting the steering wheel position, please confirm whether the steering wheel is locked properly to avoid accidents that may cause personal injury or property damage.

### **Overview Of Instrument Cluster**



- 1 High Voltage Battery Voltmeter
- 2 Indicator and Warning Light Display Area
- **Driving Range**
- 4 Vehicle Readiness Indicator Light
- Current Vehicle Gear

- 6 Fault Prompt Message
- 7 Battery Voltage
- 8 Current Power Meter
- 9 Motor Speed
- 10 Trip

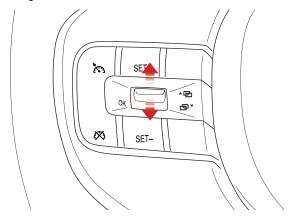
- 11 High Voltage Battery Current Temperature
- 12 Current Vehicle Speed
- 13 High Voltage Battery Current
- 14 High Voltage Battery Voltage
- 15 Total Mileage

#### ATTENTION:

The pictures on the instrument cluster interface are all schematic diagrams and for reference only. Please refer to the actual vehicle.

### **Instrument Cluster Display Operation**

The main interface of the instrument cluster display includes driving range, current vehicle gear, vehicle speed, high voltage battery related data, trip mileage, total mileage, indicator and warning lamps, fault messages and other items.



You can use the OK button on the left side of the steering wheel to achieve the following functions in the instrument cluster display:

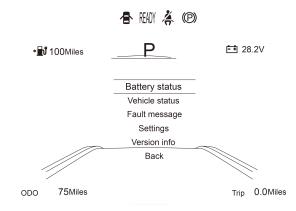
- Push up to increase numbers or go back to the previous page.
- Push down to decrease numbers or switch to the next page.

 Press this button to enter the selected interface or exit the current interface.

### **Trip Reset**

In the main interface, press and hold the OK button to clear the trip.

#### **Menu Function**

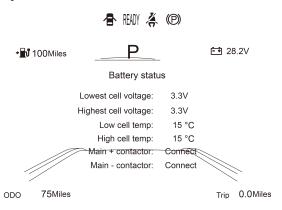


The menu includes five items: battery status, vehicle status, fault message, settings, and version info.

In the main interface, press the OK button to enter the menu, and then push the OK button up or down to switch between function items. After selecting an item, press the OK button to enter the selected interface; When "Back" is selected, press the OK button to go back to the main

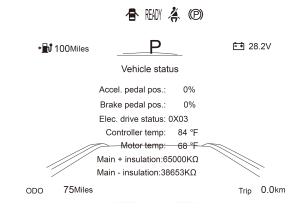
interface. In the selected function item interface, press the OK button to go back to the menu interface.

#### **Battery Status**



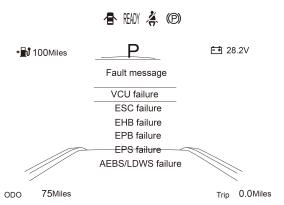
You can view the status of the battery cell and the main positive/ negative connector status on this interface.

#### **Vehicle Status**



You can view the vehicle status in real time, including the current acceleration/brake pedal force, electric drive system status, motor/MCU temperature, and main positive/negative insulation resistance.

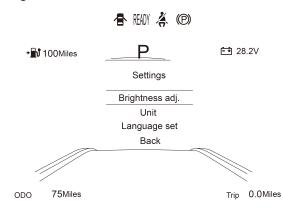
#### **Fault Message**



Push the OK button up and down to select the fault information of the current vehicle. After selecting the corresponding fault information, press the OK button to enter the fault information interface. When "Back" is selected, press the OK button to go back to the main interface.

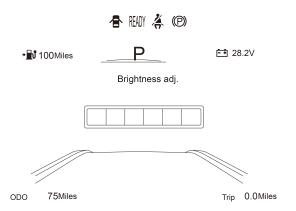
In the selected fault information item interface, you can view the DTC. Press the OK button again to go back to the fault information interface.

#### Settings



You can adjust the brightness, units, and language on this interface.

#### Brightness adj.

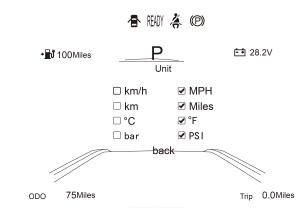


You can adjust the brightness of the instrument cluster if the endoutline marker lights are turned on.

Brightness has six setting levels. Push the OK button up or down to increase or decrease the brightness. Press the OK button to save the brightness.

After the vehicle is powered off, the brightness setting will be memorized.

#### Unit



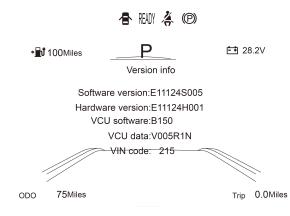
You can set the units of the speed, mileage, temperature, and air pressure.

#### Language

# 

You can modify the language settings of the combination instrument interface.

#### Version Info



You can view the software version information of this vehicle.

# **Indicators And Warning Lights**

### **Indicator Lights**

S/N	Icon	Name	Note
1		High Beam Indicator	High Beam ON

S/N	Icon	Name	Note
2	<b>[</b>	Low Beam Indicator	Low Beam ON
3	剃	Front Fog Light Indicator	Front Fog Light ON
4	⊅	Rear Fog Light Indicator	Rear Fog Light ON
5	<b>+</b>	Left Turn Signal	Left Turn Signal Light ON
6	•	Right Turn Signal	Right Turn Signal Light ON
7	<del>-</del> 200 <del>-</del>	End-outline Marker Light Indicator	End-outline Marker Light ON
8		Battery Low SOC Indicator	Battery Capacity Below Set Value

S/N	Icon	Name	Note
9		High Voltage Battery Charging Indicator	Vehicle Being Charged
10		High Voltage Battery Cut-off Indicator	High Voltage Power Cut Off or Vehicle Not Powered On
11		Power Limit Indicator	Power System Malfunction and Only Low-speed Driving Allowed
12	(P) AUTOH	AUTO HOLD Indicator	AUTO HOLD Activated
14		Steering System MIL	The Steering System is Subject to a General Fault, But the Vehicle Can Still Operate Normally.  After Power Off and Re-ignition, the System Functions Can Be Automatically Restored. If Not, Please Contact A ZM Trucks Authorized Service Station.

S/N	Icon	Name	Note
15	OFF	ESC OFF Indicator	ESC Deactivated
16	55	ESC MIL/ON Indicator	Illuminated: ESC Malfunction Flashing: ESC in Operation
17	SNOW	Rain And Snow Mode Indicator	Rain And Snow Mode ON
18		AEBS Vehicle Primary Warning Indicator	The AEBS Detects the Presence of Vehicles Ahead
19	A.	AEBS Pedestrian Primary Warning Indicator	The AEBS Detects the Presence of Pedestrian Ahead
20	AEBS	AEBS MIL	AEBS Malfunction

S/N	Icon	Name	Note
21	AEBS OFF	AEBS OFF Indicator	AEBS Deactivated
22	LDWS	LDWS MIL	LDWS Malfunction
25	LDWS OFF	LDWS OFF Indicator	LDWS Deactivated
23	/_	Left Lane Departure Warning Indicator	During High-speed Driving The LDWS Detects the Driver Has Not Turned On the Turn Signal Lights and the Vehicle Deviates to the Left Lane
24	\	Right Lane Departure Warning Indicator	During High-speed Driving the LDWS Detects the Driver Has Not Turned On the Turn Signal Lights and the Vehicle Deviates to the Right Lane
25	<b>(S)</b>	CC Indicator	Vehicle in Cruise Mode

S/N	Icon	Name	Note
26	ECO	ECO Mode Indicator	Vehicle in ECO Mode
27	Øæ.	Rearview Mirror Heating Indicator	Rearview Mirror Heating ON
28	ABS	ABS MIL	Brake Control System Malfunction
29	READY	READY Indicator	There Are No Relevant Alarms After the Vehicle is Started
30	(RET)	Energy Recovery Indicator	System Recovers Energy

### **Warning Lights**

S/N	Icon	Name	Note
1	*	Seat Belt Reminder Warning Light	This Indicator is Illuminated When the Seat Belt is not Fastened  This Indicator Flashes For 90s When the Vehicle Speed is Greater Than or Equal to the Set Value

S/N	Icon	Name	Note
2	<b>(!)</b>	Brake System Fault Warning Light	Brake System Malfunction
3	<b>(P)</b>	Parking Brake MIL	Parking Brake ON
4	4	Door Opening Warning Light	Door Not Closed
5	(()	Brake Shoe Wear Warning Light	Abnormal Brake Pad Wear Detected, have Brake Pads Inspected
6	<b>5</b> €	Charging Cable Connection Warning Light	The Charging Plug Is Connected to the Vehicle Charging Socket
7	PARK	Parking Warning Light	The Vehicle Has a Serious Malfunction, Please Pull Over Immediately
8	SPEED	Motor Overspeed Warning Light	Drive Motor Overspeed
9	A	Insulation Fault Warning Light	The Vehicle Has an Insulation Fault

S/N	Icon	Name	Note
10	>	System Fault Warning Light	Vehicle System Fault
11		High Voltage Battery Fault Warning Light	High Voltage Battery Abnormal
12	4	Battery Over-temperature Warning Light	High Voltage Battery Temperature Above the Set Value
13	DODC	DCDC Fault Warning Light	The Battery Cannot be Charged Normally
14	TOOK	HVIL Fault Warning Light	The High-voltage Interlock Has an Open Circuit and the Vehicle Cannot Move
15	đ.	Motor System Fault Warning Light	Drive Motor Fault
16		Motor Over-temperature Fault Warning Light	Drive Motor Temperature Above the Set Value
17	<u>@</u>	EPB Fault Warning Light	EPB System Malfunction

S/N	Icon	Name	Note
18	$\Theta$	Steering System Fault Warning Light	The Steering System is Subject to a Serious Fault and Cannot Function Properly, Resulting in No Power Assistance for the Steering
19		AEBS Vehicle Collision Warning Light	The AEBS Detects the Presence of a Vehicle Ahead, Indicating an Imminent Collision
20	A	AEBS Pedestrian Collision Warning Light	The AEBS Detects the Presence of Pedestrians Ahead, Indicating an Imminent Collision

### ATTENTION:

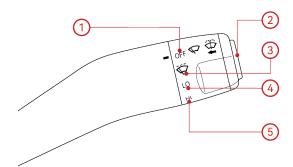
If the warning light remains illuminated after the vehicle is powered on, or gets illuminated during driving, it indicates that the vehicle may be subject to a serious fault. In this case, please contact a ZM Trucks authorized service station immediately.

# **Wiper Control**

### **Function Introduction**

You can control the wipers with the combination switch handle on the right side of the steering wheel.

### **Operating Instructions**



### Wiper OFF

Turn the wiper knob to the Off position, and the wipers will stop wiping.

#### Washer ON

Press and hold this button to spray windshield washer fluid. The wipers will automatically turn On.

#### INT Position

Turn the wiper knob to this position, and the wipers will enter the intermittent wiping mode.

#### 4 LO Position

Turn the wiper knob to this position, and the wipers will enter the low-speed wiping mode.

#### **HI Position**

Turn the wiper knob to this position, and the wipers will enter the high-speed wiping mode.

### **Precautions**

### Warning

In cold season, if the washer fluid freezes on the windshield, do not use the wipers as this may obstruct the view and cause traffic accidents or casualties.

#### ATTENTION:

Before using the wipers in winter, be sure to remove the ice and snow from the windshield to ensure that the wiper blades are not frozen in place.

#### Note

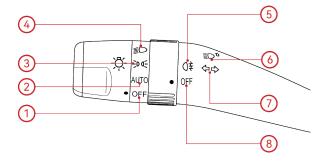
- In the presence of foreign objects on the windshield, please clean the windshield first. Otherwise, the wiper blades may be damaged.
- Wipers should only be used to clean the windshield with washer fluid. Otherwise, both the wiper and the windshield may be damaged.
- Please regularly check and replace the wiper blades.
- Please use acceptable washer fluid as products that are not approved may cause damage to the washer or corrosion to the glass.

# **Light Switch**

### **Function Introduction**

You can switch between low and high beams through the light stalk on the left side of the steering wheel.

### **Operating Instructions**



### 1. Lighting OFF

Turn the light stalk to this position to turn off all vehicle lamps.

### 2. Automatic Headlights ON

Turn the light stalk to the AUTO position to activate the automatic headlights, which automatically turns on or off the headlights depending on outside lighting.

### 3. Position Light ON

Turn the light stalk to this position to turn on the position lights.

#### 4. Low Beam ON

Turn the light stalk to this position to turn on the low beam. Turn the light stalk to any other position, and the low beam will be off.

### 5. Rear Fog Light ON

Turn the fog light switch to this position to turn on the fog lights.

### 6. High Beam ON

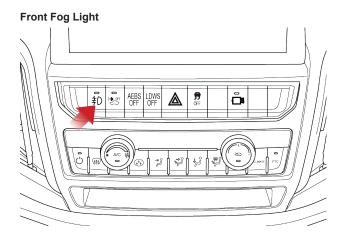
With low beam on, move the light stalk forward to turn on the high beam; With high beam on, move the light stalk backward to turn off the high beam.

### 7. Turn Signal Light ON

Move the light stalk downward to turn on the left turn signal light; Move the light stalk upward to turn on the right turn signal light.

### 8. Rear Fog Light OFF

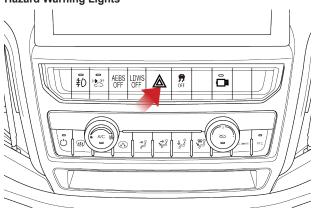
Turn the fog light switch to this position, and the rear fog lights will turn off.



The front fog light is located in the instrument panel switch group. Press it once to turn on the front fog lights. Press again to turn off the front fog lights.

When the vehicle's headlights are turned on and the speed is under 25 mph (40 kph), and the turn signals are activated, the front fog lights on the same side will illuminate. If the turn signals are off, the front fog lights on the same side will be turned off.

### **Hazard Warning Lights**



The hazard warning light button is located in the instrument panel switch group. If an emergency occurs during driving, press the hazard warning light to flash the vehicle lights.

### **Precautions**

### Note

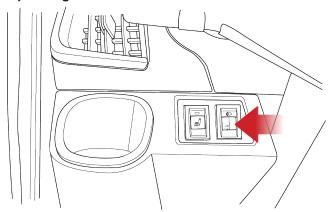
Use the exterior lights of the vehicle to improve driving safety.

# Low Beam Leveling

### **Function Introduction**

You can adjust the height of the low beams via the low beam leveling switch to maintain good lighting under different road conditions and loads.

### **Operating Instructions**



The low beam leveling switch is located on the left side of the instrument panel. There are four levels that can be adjusted.

 Turn the knob up to decrease the level value and increase the height of the low beam.  Turn the knob down to increase the level value and decrease the height of the low beam.

Vehicle load	Recommended switch position
Off	0
Light	1
Medium	2
Heavy	3

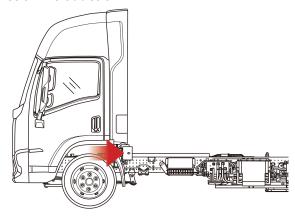
### **Precautions**

### Warning

You should adjust the height of the low beam in a reasonable manner to avoid accidents due to poor lighting.

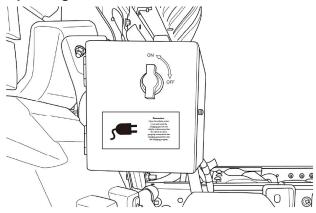
# **Charging Port**

### **Function Introduction**



The charging port is located on the left side of the vehicle.

### **Operating Instructions**



To charge the vehicle, first turn the charging port switch to On position to unlock the charging port. Then, open the charging port cover and remove the charging port dust cover.

# **Charging Preparation**

### **Function Introduction**

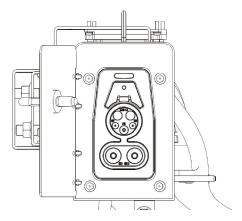
Please use charging equipment that complies with national regulations and standards to charge this vehicle.

### **Operating Instructions**

### Preparation

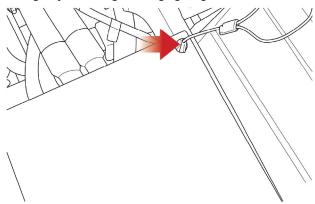
- Park the vehicle near the charging device and ensure the vehicle is free of any abnormalities such as an insulation fault. The vehicle can be charged both under high-voltage and non-high-voltage conditions.
- Check the charging device cable and vehicle charging socket for damage, immersion, ablation and other obvious abnormalities. Make sure there are no obvious safety hazards in the charging device and the surrounding environment before charging.

### **Charging Preparation**



- Remove the DC charging plug compliant with CCS1 or AC level 2 charging plug compliant with the CCS1 from the charging station.
   Open the vehicle charging port cover, hold the charging plug tightly with your hand, and fully insert the charging plug into the vehicle charging socket until a click sound is heard.
- Enter the charging interface of the charging station by swiping
  the charging card or scanning the QR code and select the
  corresponding charging plug. Click "Start Charging" on the charging
  pile screen, wait for the high voltage battery to be fully charged and
  the plug will be disconnected automatically, or click "End Charging"
  on the charging pile screen.
- After charging stops, press and hold the lock button, remove the charging plug from the charging socket and put it back in place, and then close and lock the charging port cover.

### **Emergency Unlocking of Charging Plug**



In case of emergency, you can pull the emergency release cable above the charging port to unlock and remove the charging plug.

### **Precautions**

### Warning

 Before charging, confirm that the charging output voltage platform and the low-voltage auxiliary power supply are matched with the vehicle, and the charging connector is in line with the requirements of regulations.

(Continued)

### Warning

- Do not stack flammable and explosive materials around the charging station. Keep the surrounding environment of the charging device well ventilated.
- During charging, do not touch the charging plug connector and the vehicle charging port to avoid electric shock.
- If the charging device is found abnormal, for example, smoking, emitting odor, making abnormal noise, etc., stop charging immediately and contact a professional for maintenance.

### ATTENTION:

- During charging, the vehicle is in an interlocked state and cannot be started normally. The vehicle interlock will be released when the charging plug is removed.
- Before charging, make sure that the vehicle is in a parking state to avoid accidents caused by accidental movement of vehicle during charging.
- The maximum output voltage of the charging pile needs to be greater than the working voltage of the high voltage battery.

#### Note

• When the temperature of the high voltage battery is below 32°F (-2°C), the high voltage battery will be heated to the set temperature automatically before charging. In this case, the vehicle charging time will be extended, which is normal. The system automatically adjusts the charging current as the temperature changes to ensure the best performance of the high voltage battery.

(Continued)

#### Note

- To improve charging efficiency, extend high voltage battery service life and ensure charging safety, the high voltage battery temperature should be greater than 32°F (-2°C) before charging.
- When the high voltage battery temperature is 32°F (-2°C) or below, the operating vehicle should be charged in time after use to prevent the high voltage battery temperature from being too low and the charging time from being extended, affecting the operation.
- In hot weather, the vehicle should be charged no more than 2 times during the day, and each time should not last for more than 30 minutes; If the charging time exceeds 30 minutes, the vehicle should be charged once only during the day.
- The high voltage battery SOC of inventory vehicles parked for a long time should be 40% ≤SOC≤ 60%. The inventory vehicles that have been parked for more than three months should be fully charged once every three months. After the high voltage battery is fully charged, the high voltage battery should be discharged to 40%≤ SOC ≤60% and then stored in the warehouse.

# **External Discharge**

### **Function Introduction**

You can provide external 120V AC power through a discharge plug. If the voltage is different from that used locally, you need to convert it by yourself.

### **Operating Instructions**

- Park the vehicle in an open space where it can be safely discharged, shift the vehicle into N gear, activate the EPB, and set the power switch of the vehicle in On position.
- Check the charging device cable and charging socket of the vehicle for damage, immersion, ablation an,d other obvious abnormalities. Stop the discharge operation immediately in case of any abnormalities.
- Insert a discharge plug that meets CCS1 securely into the AC charging port until the indicator on the discharge plug socket lights up before connecting the electrical appliance to the socket.
- 4. After use, disconnect the electrical appliances, and then turn the vehicle power from On to Off position. Wait until the electronic lock of the charging socket is unlocked to pull out the discharge plug. Close and lock the vehicle charging port.

### **Precautions**

### Warning

- Please use electrical appliances with a power rating that is compatible with the current carrying capacity of the discharge plug. Ensuring that the appliances support 120V AC.
- It is forbidden to stack flammable and explosive materials around during discharge.
- If any abnormal situations such as smoking, odor or abnormal noise are found during the discharge, stop the discharge operation immediately, and contact a professional for maintenance.

#### ATTENTION:

- The CC signal line of the discharge plug must meet the resistance requirement (75 $\Omega$ ). Otherwise, the vehicle cannot recognize it.
- During discharge, the vehicle is interlocked and cannot be driven normally. To drive the vehicle, deactivate the discharge mode and power on the vehicle again.
- Please ensure that the SOC of the high voltage battery is greater than 20% before discharge. Ensure that the vehicle is parked properly.
- For smart devices such as laptops, the laptop charging cable should be connected to the discharge plug before being connected to the laptop to protect electrical appliances.

## **External Discharge**

### **Function Introduction**

120V AC power can be provided to the outside through a discharge plug.

### **Operating Instructions**

- 1. Park the vehicle in an open space where it can be safely discharged, shift the vehicle into N gear, activate the EPB, and set the power switch of the vehicle in On position.
- 2. Check the charging device cable and charging socket of the vehicle for damage, immersion, ablation and other obvious abnormalities. Stop the discharge operation immediately in case of any abnormalities.

- 3. Insert a discharge plug that meets J1772 securely into the AC charging port until the indicator on the discharge plug socket lights up before connecting the electrical appliance to the socket.
- 4. After use, disconnect the electrical appliances, and then turn the vehicle power from On to Off position. Wait until the electronic lock of the charging socket is unlocked to pull out the discharge plug, then close and lock the vehicle charging port.

### **Precautions**

### Warning

- Please use electrical appliances with a power rating that is compatible with the current carrying capacity of the plug. Ensure that the appliances support 120V AC.
- Do not stack flammable and explosive materials around during discharge.
- If any abnormal situations such as smoking, odor or abnormal noise are found during the discharge, stop the discharge operation immediately and contact a professional for maintenance.

#### ATTENTION:

- The PP signal line of the discharge plug must meet the resistance requirement (75 $\Omega$ ). Otherwise, the vehicle cannot recognize it.
- During discharge, the vehicle is interlocked and cannot be driven normally. To drive the vehicle, just deactivate the discharge mode and power on the vehicle again.
- Please ensure that the SOC of the high voltage battery is greater than 20% before discharge. Ensure that the vehicle is parked properly.

#### 48 DRIVING

 For smart devices such as laptops, the laptop charging cable should be connected to the discharge plug before being connected to the laptop to protect electrical appliances.

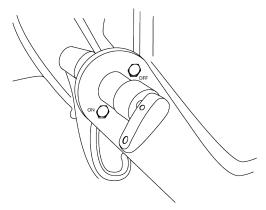
### Main Power On/Off

### **Function Introduction**

The main power switch is located on the left side of the vehicle. You can only use the mechanical key to start the vehicle after turning on the main power supply.

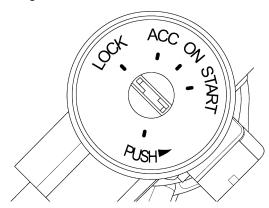
### **Operating Instructions**

Turn on the Main Power Switch of Vehicle



Turn the main power switch to the On position to power on the vehicle. Turn the main power switch to the Off position to power off the vehicle.

### **Starting Vehicle**



Positions and functions of ignition switch:

#### LOCK

When the mechanical key is turned to this position, all electrical appliances are powered off except for some controllers and the mechanical key can be pulled out. The steering wheel position is locked after the mechanical key is pulled out.

#### ACC

When the mechanical key is turned to this position, even if the vehicle is not powered on and is not ready for driving, the accessory circuits ca be used.

#### ON

When the mechanical key is turned to this position, the vehicle will be powered on with high voltage and is not ready for driving. The high-voltage equipment can be powered on.

#### START

When the key is turned to this position, the vehicle will control the high voltage system to be ready for driving. After release, the key will automatically return to the "ON" position.

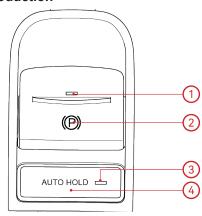
### **Precautions**

#### Note

When the vehicle is powered on, you will hear the brake system self-test. This is a normal function of the vehicle.

# **Electronic Parking Brake (EPB)**

### **Function Introduction**



- 1 EPB Switch Status Indicator
- 2 FPB Switch
- 3 Auto Hold Switch Status Indicator.
- Auto Hold Switch

### **Operating Instructions**

### Manual application of EPB

When the vehicle is stopped with the parking brake released, depress the brake pedal continuously and pull up the EPB switch. The EPB switch status indicator will turn on, and the parking brake warning light on the instrument cluster will be illuminated. The vehicle will remain in the parking brake state.

#### Manual release of EPB

When the vehicle is stopped with the parking brake applied, depress the brake pedal continuously and press the EPB switch. The EPB switch status indicator will turn off, and the parking brake warning light on the instrument cluster will go out, indicating that the parking brake is released.

#### EPB auto release

When starting the vehicle normally, release the brake pedal and depress the accelerator pedal. When the torque reaches a certain level, the EPB switch status indicator will turn off, and the parking brake warning light on the instrument cluster will go out, indicating that the parking brake is released and the vehicle can be started.

### Auto Hold with power off

When the vehicle is stopped with the parking brake released, the vehicle will be powered off and automatically enter the parking brake state.

### **Auto Hold**

#### Activation and deactivation of AUTO HOLD

With the vehicle is stationary and the system self-test is normal, press the AUTO HOLD button to activate. Press the switch again to deactivate it. When the function is activated, the switch status indicator will turn on, and the AUTO HOLD indicator in the instrument cluster will be illuminated. When deactivated, the switch status indicator will turn off and the AUTO HOLD indicator will go out.

### Applying AUTO HOLD

When the AUTO HOLD function is activated, depressing and holding the brake pedal to stop the vehicle will activate the automatic parking brake for five minutes. It will then switch to the parking brake.

### Releasing AUTO HOLD

When the automatic parking brake is applied, starting the vehicle will release the automatic parking brake.

### **Precautions**

### Warning

- The ramp for parking should be a hardened road surface with a large friction coefficient which can prevent the vehicle from rolling due to looseness or insufficient static friction.
- When parking on the ramp, parking wedges should be used, and auxiliary objects should be added in case of a steep ramp according to the specific situation to avoid accidental rolling.
- In the event of an emergency, the parking brake can be used as a temporary service brake. Do not use the parking brake long term.

### **Service Brake**

### **Function Introduction**

You can depress the brake pedal to reduce vehicle speed or let off the gas pedal until the vehicle comes to a complete stop.

### **Operating Instructions**

To stop the vehicle smoothly during service braking:

- Deceleration: First, release the accelerator pedal to reduce the vehicle speed by the drive motor and depress the brake pedal as needed.
- Stop: Gradually depress the brake pedal to reduce the vehicle speed. Fully depress the brake pedal to stop, switch to N (neutral) gear, and turn on Electric Park Brake (EPB) to power off the vehicle and complete the parking operation.
- Emergency Braking: In case of an emergency, firmly depress the brake pedal to quickly to stop the vehicle.

### **Precautions**

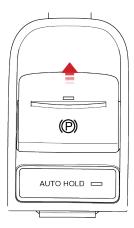
### Warning

- When entering a curve, brake in advance to reduce the vehicle speed below the safe speed and drive cautiously when braking at the curve to avoid vehicle skidding.
- In rainy and snowy weather, increase the following distance to ensure driving safety.
- The service brake is not suitable for prolonged braking (e.g., longterm downhill driving).

# **Emergency Brake**

### **Function Introduction**

In case the service brake system fails, the Electric Park Brake (EPB) can be used as an emergency brake.



When you need to brake in an emergency, pull up the parking brake switch for more than two seconds.

### **Precautions**

### Warning

- When the vehicle is driving at high speeds, pull the parking brake switch in the form similar to "cadence braking". Do not apply the brake tightly to avoid damage to the brake and other related components or loss of braking performance.
- When you apply the parking brake as an emergency brake, the system will directly apply the parking brake at a vehicle speeds below 3 mph (5 kph) and maintain at parking state. The vehicle

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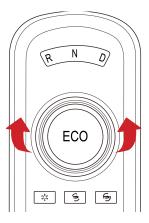
#### Warning

will not be able to automatically release the parking brake once it starts. Thus, the parking brake can only be released by manually operating the parking brake switch.

# **Shift Operation**

### **Function Introduction**

This vehicle is equipped with a shift knob on the right side of the driver seat



### R (Reverse) Gear

When the vehicle is stationary, depress the brake pedal and turn the shift knob to the R position. The instrument cluster will display "R" gear, indicating that the vehicle has been put into R gear.

### N (Neutral) Gear

After starting, the vehicle will engage into the N gear by default.

The vehicle can be engaged in N gear with "N" gear displayed in the instrument cluster through the following operations:

When the shift knob is in the "D" gear, turn the shift knob to the "N" position. The instrument cluster will display "N" gear, indicating that the vehicle has been put into N gear.

When the shift knob is in the "R" gear, turn the shift knob to the "N" position. The instrument cluster will display "N" gear, indicating that the vehicle has been put into N gear.

### D (Drive) Gear

When the vehicle is stationary, depress the brake pedal and turn the shift to the D position. The instrument cluster will display "D" gear. indicating that the vehicle has been put into D gear.

### **Precautions**

#### ATTENTION:

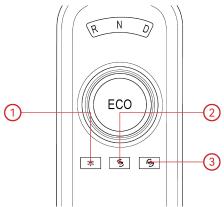
The vehicle must be powered off in N gear. Do not directly power off and stop the vehicle in D or R gear.

# **Energy Recovery**

### **Function Introduction**

During driving, energy is recovered when the accelerator pedal and the brake pedal are released. Energy will also be recovered when the brake pedal is depressed. You can adjust the energy recovery intensity during coasting by switching the energy recovery level.

### **Operating Instructions**



There are three energy recovery levels. When the vehicle is powered on, the energy recovery level is low by default.

The energy recovery selection buttons are located on the rear side of the gear shifter. You can switch between the energy recovery levels.

#### Rain and Snow Mode

When this button is pressed, the energy recovery will be turned off and the Rain and Snow mode will be entered. In this case, there is no energy recovery when the vehicle coasts and brakes, and the Rain and Snow mode indicator is illuminated on the instrument cluster. When this button is pressed again, the Rain and Snow mode will be exited, the energy recovery will be turned on, and the Rain and Snow mode indicator on the instrument cluster will go out.

### 2. Moderate Energy Recovery

When this button is pressed, the energy recovery level is moderate.

### 3. Strong Energy Recovery

When this button is pressed, the energy recovery level is strong.

### **Precautions**

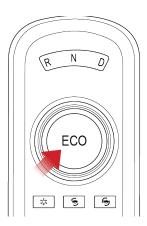
#### Warning

- Regenerative braking with energy recovery is not a substitute for the service brake. You should apply the brakes in time according to the actual situation.
- Avoid using the energy recovery function in rainy or snowy weather or on slippery roads.

# **Driving Mode**

### **Function Introduction**

This vehicle is equipped with two driving modes.



The vehicle has ECO mode and Power mode, which can be switched via the button on the gear shifter.

After the vehicle is powered on, the ECO mode is entered by default to reduce energy consumption. The button light and the ECO mode indicator on the instrument cluster will be illuminated. When you press the ECO button, the button light and the ECO mode indicator on the instrument cluster will go out, and the vehicle driving mode will switch to the power mode to meet your driving needs.

### **Precautions**

#### Note

- Choosing different driving modes according to actual road conditions can reduce energy consumption.
- The speed limit in ECO mode is 50 mph (80 kph).

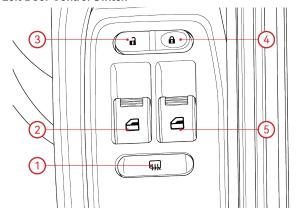
### **Doors**

### **Function Introduction**

Both the right and left doors are equipped with door control switches, which allow you to access various functions of the doors and windows.

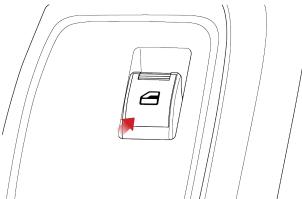
### **Operating Instructions**

#### Left Door Control Switch



- Rearview Mirror Heating Switch
- Left Window Switch
- Central Unlock Button
- Central Lock Button
- Right Window Switch

### **Right Door Control Switch**



The right door control switch can only control the right window.

### Windows

### **Function Introduction**

You can control the window by pressing the window switches on the left or right door panel.

### **Operating Instructions**

When you press the window switch down once, the window will be lowered until it is completely opened. If you pull the window switch up or press the switch again while the window is lowering, the window will stop immediately.

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When you pull the window switch up and hold it, the window will rise until it is completely closed. If you stop pulling the switch up while the window is rising, the window will stop immediately.

The car window is equipped with curtains, which can be used to block the light.

### **Precautions**

### Warning

Before closing the windows, ensure all passengers are not blocking the path of the window. Serious injury may occur.

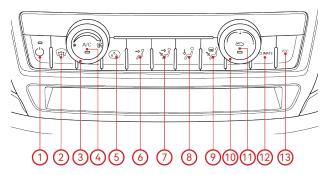
# Air Conditioning (A/C)

### **Function Introduction**

You can operate the A/C in the Climate Control interface of the control panel or multimedia screen.

### **Operating Instructions**

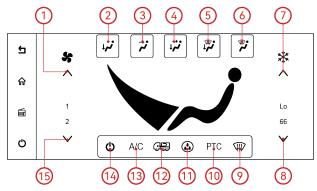
#### A/C Control Panel



- Press this button to turn on/off the system.
- 2. Press this button to turn on/off the defrosting mode.
- Rotate this knob to adjust the air volume of the A/C.
- 4. Press this knob to turn on/off the cooling mode.
- Press this button to turn on/off the dry mode.
- 6. Press this button to turn on/off the panel mode.
- 7. Press this button to turn on/off the panel and foot mode.
- 8 Press this button to turn on/off the foot mode

- Press this button to turn on/off the foot and defrosting mode.
- 10. Rotate this knob to adjust the temperature.
- 11 Press this knob for recirculation mode.
- 12. Press this button to switch the multimedia screen to the A/C adjustment interface.
- 13. Press this button to turn on/off the PTC (heating) mode.

#### Multimedia Control



- Click here to increase the air flow by one level.
- Click here to turn on/off the floor mode
- Click here to turn on/off the panel mode.
- Click here to turn on/off the panel and floor mode.
- Click here to turn on/off the floor and defrosting mode.

- The current blowing mode is displayed here.
- Click here to increase the temperature by 1°F (-17°C).
- Click here to decrease the temperature by 1°F (-17°C).
- Click here to turn on/off the defrosting mode.
- 10. Click here to turn on/off the PTC (heating) mode.
- 11. Click here to turn on/off the dry mode.
- 12 Click here to switch the recirculation mode
- 13. Click here to turn on/off the cooling mode.
- 14. Click here to turn on/off the system.
- 15. Click here to reduce the air volume by one level.

### **Precautions**

#### Note

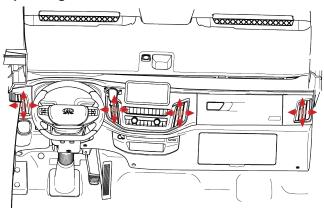
- Turning on recirculation mode for an extended time may reduce air quality in the vehicle or the windows to fog.
- The A/C (cooling) mode can only be turned on when the temperature is less than or equal to 76°F (24°C). The PTC (heating) mode can only be turned on when the temperature is more than or equal to 76°F (24°C).

### **Air Outlet**

### **Function Introduction**

The air outlet vents are located in the windshield, dashboard, and floor area below the dashboard

### **Operating Instructions**



You can manually adjust the air outlets to control blowing direction and output.

### **Precautions**

#### Note

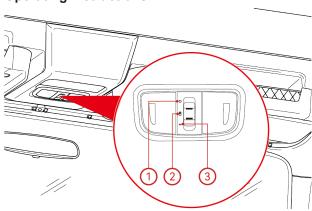
Do not block the air outlets with objects.

# **Interior Lighting**

### **Function Introduction**

The vehicle is equipped with overheat lights to illuminate the cabin.

### **Operating Instructions**



The overhead lights can be adjusted by moving the slider to meet your needs.

#### 1. ON

The ceiling lights are always on.

#### 2 Door-Controlled Mode

The ceiling lights will enter the door-controlled mode.

Specifically, when the door is opened, the ceiling lamps will illuminate automatically. When the door is closed, the ceiling lamps will be illuminated for a while and then turned off automatically.

#### 3. OFF

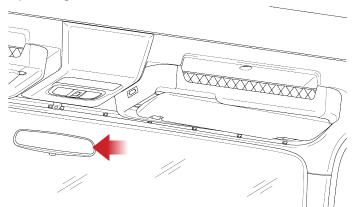
The ceiling lights are turned off.

### **Interior Rearview Mirror**

### **Function Introduction**

The front windshield is equipped with an interior rearview mirror to see behind the vehicle

### **Operating Instructions**



You can manually rotate the interior rearview mirror to the desired position.

### **Precautions**

### Warning

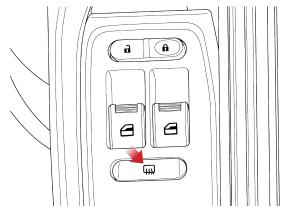
Do not adjust the interior rearview mirror while driving. The driver may lose control of the vehicle and cause an accident and personal injury.

### **Exterior Rearview Mirror**

### **Function Introduction**

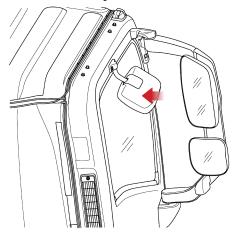
This vehicle is equipped with exterior rearview mirrors to provide comprehensive views of the sides and rear of the vehicle and ensure driver safety.

### **Operating Instructions**



Press the exterior rearview mirror heating switch on the left door panel to defrost the exterior rearview mirror.

### **Close-Proximity Exterior Rearview Mirror**



This vehicle is equipped with a close-proximity exterior rearview mirror on the right side. It provides a clear view of blind spots.

### **Precautions**

#### ATTENTION:

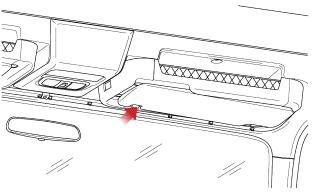
Objects in the exterior rearview mirror are closer than they appear.

### **Sun Visor**

### **Function Introduction**

This vehicle is equipped with sun visors on the left and right sides.

### **Operating Instructions**



You can pull down the sun visor to block sunlight from the front windshield. After pulling down the sun visor, you can rotate it to the door window to block sunlight from the side.

### **Precautions**

### ATTENTION:

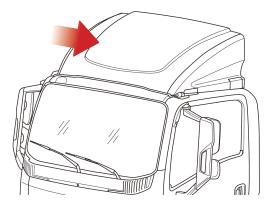
The lowered sun visor may block your vision. If you no longer need to use the sun visor, be sure to reset it.

### **Air Deflector**

### **Function Introduction**

Some vehicle models are equipped with a deflector on the roof of the cab, which can effectively reduce air resistance and energy consumption.

### **Operating Instructions**



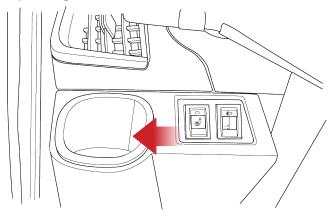
The deflector can reduce the air resistance of the vehicle, ensure the driving stability of the vehicle, and reduce energy consumption.

# **Cup Holder**

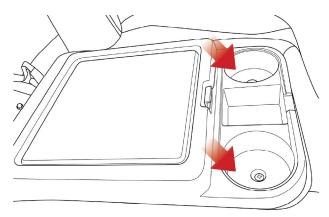
### **Function Introduction**

The vehicle is equipped with a cup holder on the left side of the instrument panel and the back of the middle seat.

### **Operating Instructions**



You can place sealed drink containers here.



There are two cup holders on the back of the middle seat, which can be used after the middle seat is folded down.

### **Precautions**

#### ATTENTION:

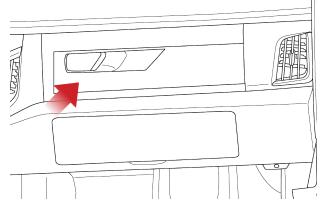
- Use the cup holder to carry the drink containers that fit the cup holder only. Otherwise, the cup holders or the containers may be damaged.
- Do not place containers without lids in the cup holders to prevent the drinks in the container from splashing out.
- Do not place hot drinks without lids in the cup holders to prevent liquid splashing and burns.

# **Interior Storage Device**

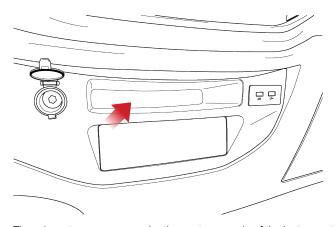
### **Function Introduction**

The vehicle is equipped with multiple storage devices.

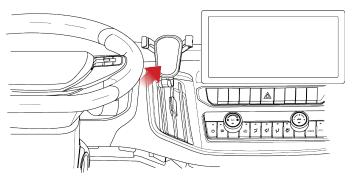
### **Operating Instructions**



There is a storage box on the right side of the instrument panel, where owner's documents are stored for your reference.

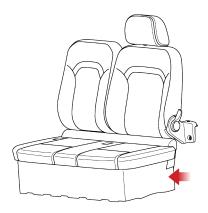


There is a storage space under the center console of the instrument panel.

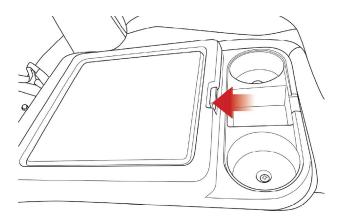


This vehicle is equipped with a phone holder, which allows you to place your phone for easy navigation and other functions. You can adjust the angle of the phone holder according to your needs.

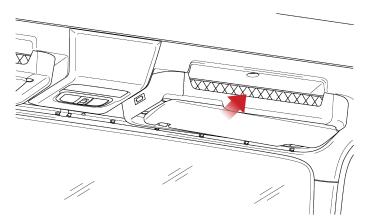
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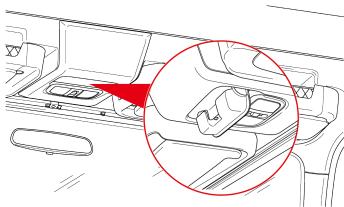


There is a storage box under the right seat, which can be opened by flipping up the seat cushion. This storage box contains the driver's tools.



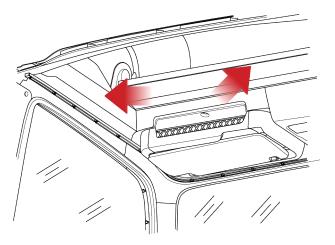
There is a storage box on the back of the middle seat, which can be opened by pressing the switch at the front end of the storage box. It can be used when the seat is folded down.



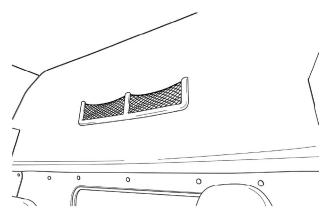


There is a net bag on the sun visor, where you can place smaller items.

There is a glasses case at the upper part of the cab, which can be opened by lightly pressing and closed by lightly pressing again.



There is an overhead storage space in the cab, where you can store items.



There is a net bag behind the cab, where you can place items.

### **Precautions**

### ATTENTION:

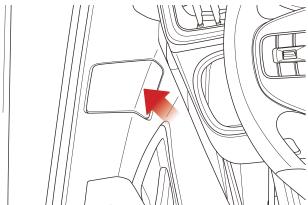
- Ensure that the storage boxes are closed to prevent the items from falling off, resulting in property damage and personal injury when driving.
- Before driving, ensure that the items in the overhead storage space are effectively secured to prevent them from falling and causing injury while driving.

# **Ashtray**

### **Function Introduction**

This vehicle is equipped with ashtrays on both front doors.

### **Operating Instructions**



The ashtray can be used after opening the cover.

### **Precautions**

Note

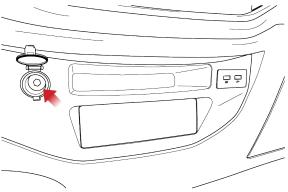
Clean the ashtray regularly.

### **Power Outlet**

### **Function Introduction**

This vehicle is equipped with a power outlet under the instrument panel.

### **Operating Instructions**



The power supply voltage is 24V and the current is 10A. The power outlet can also be used as a cigarette lighter.

### **Precautions**

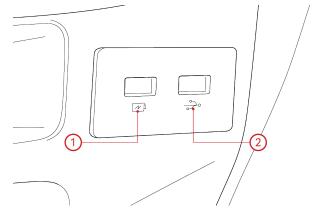
#### Note

Turn off the cigarette lighter immediately after use.

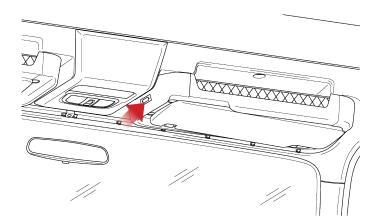
### **Function Introduction**

This vehicle is equipped with a USB port for charging or connecting USB devices.

### **Operating Instructions**



- 1 USB Charging Port
- 2 USB Multimedia Connection



There is also a USB port located on the left side of the net bag above the right seat, which can be used after opening the cover.

### **Precautions**

### Warning

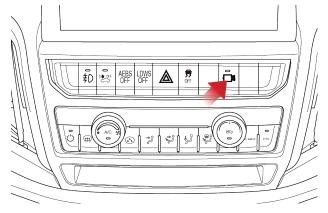
Do not modify the power port.

# **Four Directional Image System**

### **Function Introduction**

The four-directional image system provides a comprehensive view of the surroundings through the cameras installed on the vehicle.

### **Operating Instructions**



Activate this function through the instrument panel switch bank.

While driving, when the vehicle speed is less than 9 mph (14 kph), the system will be automatically activated.

### **Reversing Image**

With the R gear engaged, the multimedia screen will automatically display the rearview camera interface.

### Steering Image

With turn signal lights on, the multimedia screen will automatically display the view on the corresponding side.

#### Limitations

Four-directional image system relies on the normal operation of the surround view camera. The sensor and camera function may be limited in the following situations:

- The camera is changed to a different mounting position, blocked or dirty, out of focus or faulty.
- The surrounding environment is dim, such as at dawn, dusk, at night, in tunnels, buildings, scenery or shadows of large vehicles.
- The brightness of the surrounding environment changes suddenly, such as the entrance or exit of a tunnel.
- The camera is exposed to oblique or direct sunlight.
- In bad weather such as rain, snow, fog and haze.

### **Precautions**

### Warning

 Four-directional image system is an auxiliary function, and the driver still needs to pay attention to observe the surrounding environment during its operation.

(Continued)

#### Warning

 The distance from the person, object, or obstacle to the vehicle shown on the multimedia screen may be closer than the actual distance.

#### ATTENTION:

In hot or humid weather conditions, the detection distance may be reduced

# Lane Departure Warning System (LDWS)

### **Function Introduction**

With the turn signal lights off, if the vehicle is deviating from its current lane, the LDWS will give the visual and audible warnings to remind the driver to drive safely and avoid potential collisions.

### Left Lane Departure Warning

During high-speed driving, if the LDWS detects that the driver has not turned on the turn signal lights and the vehicle deviates to the left lane, the left lane departure warning indicator will be illuminated on the instrument cluster and an audible alarm will chime.

### Right Lane Departure Warning

During high-speed driving, if the LDWS detects that the driver has not turned on the turn signal lights and the vehicle deviates to the right lane, the right lane departure warning indicator will be illuminated on the instrument cluster and an audible alarm will chime.

#### LDWS MIL

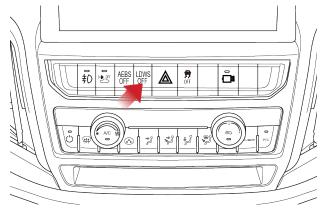
When the LDWS is faulty, the LDWS yellow Malfunction Indicator Light (MIL) will be illuminated on the instrument cluster

### **Operating Instructions**

#### **LDWS Activation**

After the vehicle is started, the LDWS function will be automatically activated.

### **LDWS Deactivation**



You can deactivate the LDWS function by pressing the LDWS OFF button in instrument panel. In this case, the LDWS OFF indicator will be illuminated in the instrument cluster to remind you that it is deactivated.

#### Limitations of LDWS

LDWS may be restricted or not work normally under the following circumstances, including but not limited to:

- The vehicle is affected by crosswinds.
- The vehicle is driving on a slope.
- The vehicle is driving through a road with sharp curves.
- The vehicle is extremely inclined under heavy loads or abnormal tire pressure.
- The vehicle is driving on winding roads or on road surfaces with a large number of road joints.
- The vehicle is driving on roads without lane lines, with unclear lane lines, or disordered lane lines due to construction.
- The following distance is too close to detect the lane lines.
- The imaging capability of the camera is affected. Including but not limited to the following situations:
  - Poor visibility at night.
  - Poor visibility due to bad weather, such as heavy rain, heavy snow, fog, dust.
  - Bright light, backlight, water reflection, or extreme light contrast.
  - The camera is blocked by dirt, ice, snow, etc.
  - The performance of the camera deteriorates under high temperatures, extreme cold weather and other extreme weather.

### **Precautions**

### Warning

- LDWS is a driving assistance function, and it cannot replace your observation and judgment of traffic conditions and the driver's responsibility for safe driving.
- Do not use LDWS at road forks, conjunctions, etc.
- Do not use LDWS when tire chains are used on the vehicle.
- Do not use LDWS when the tires are excessively worn or the tire pressure is too low.
- Do not use LDWS when mixing tires of different constructions, brands, from various manufacturers, or having diverse tread patterns.
- Do not use LDWS when the vehicle is driving on construction roads (with construction signs, cone barrels, etc.).
- Do not use LDWS in poor driving conditions, such as sharp turns, steep slopes, icy and slippery roads, or in bad weather such as rain, snow, fog.
- You should maintain attention and judgment at all times, ensure that the vehicle is in its own lane, and comply with current laws and traffic regulations.
- LDWS may not work properly on roads without lane lines, with multiple lane lines, worn or unclear lane lines or where the lane lines are covered by other objects.
- LDWS cannot prevent collision. It is always your responsibility to drive the vehicle safely.

# **Automatic Emergency Braking** System (AEBS)

### **Function Introduction**

This vehicle is equipped with an Automatic Emergency Braking System (AEBS) to detect vehicles or pedestrians in the front of the vehicle through the forward collision warning (FCW) sensors. When there is a risk of collision, the AEBS will give an audible alarm to remind the driver to avoid potential collisions. If the driver does not take any measures, the AEBS will actively apply braking pressure according to the collision level until the collision risk is avoided or reduced

### AEBS Vehicle Primary Warning

When the AEBS detects that the distance between the vehicle and another vehicle in front is too close, the AEBS vehicle primary warning indicator (yellow) in the instrument cluster will be illuminated, and an audible alarm will be given.

### AEBS Vehicle Collision Warning

When AFBS detects that there is an imminent collision between the vehicle and another vehicle in front, the AEBS vehicle collision warning indicator (red) in the instrument cluster will be illuminated. and an audible alarm will be given. The vehicle will automatically brake in case of emergency.

### AEBS Pedestrian Primary Warning

When AEBS detects that the distance between the vehicle and a pedestrian in front is too close, the AEBS pedestrian primary warning indicator (yellow) in the instrument cluster will be illuminated, and an audible alarm will be given.

### AEBS Pedestrian Collision Warning

When AFBS detects that there is an imminent collision between the vehicle and a pedestrian in front, the AEBS pedestrian collision warning indicator (red) in the instrument cluster will be illuminated. and an audible alarm will be given. The vehicle will automatically brake in case of emergency.

#### AEBS Fault

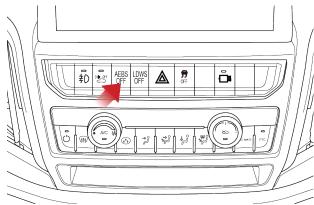
When the AEBS is faulty, the AEBS fault warning light (yellow) in the instrument cluster will be illuminated

### **Operating Instructions**

### **AEBS Activation**

After the vehicle is started, the AEBS function is automatically activated

### **AEBS Deactivation**



You can deactivate the AEBS function by pressing the AEBS OFF button in the instrument panel. In this case, the AEBS OFF indicator will be illuminated in the instrument cluster to remind you that the function is deactivated.

### Limitations of AEBS

AEBS may be restricted or not work normally under the following circumstances, including but not limited to:

 The AEBS can assist the driver in dangerous situations, but the driver should not solely rely on the system.

- In adverse weather conditions, such as heavy rain, snow, etc., the function will be degraded, and cannot detect an object or detect the object until it is too late.
- The AEBS is running in the background under normal conditions and will not be noticed by the driver. These targets will not be displayed.
- The AEBS may be triggered by mistake due to its limitations.
- Please note that the sensor cannot detect dangerous obstacles ahead in all situations
- Certain objects can weaken and block radar detection, such as highway guardrails, tunnel entrances, heavy rain or snowy weather, thus affecting the AEBS.
- In some scenarios, only radars or cameras detect objects, and the system cannot achieve optimal performance, and such system performance degradation will not be perceived by the driver.
- The AEBS is designed to detect moving objects in the same lane and direction in normal traffic conditions. When certain conditions and speed ranges are met, the AEBS can also detect stationary objects in the lane where the vehicle is driving.
- The system will not respond to animals, oncoming and crossing vehicles.
- For safety reasons, the implementation of the AEBS function requires the support of the ESC system.
- The AEBS can only respond to an object that is in the detection range of the radar sensor and has been identified. For vehicles that cut-in targets front of the driver or vehicles detected after the driver changes lanes, and those on sharp turns, the performance of AEBS will be greatly limited.

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- If the radar is affected by strong vibration or slight impact during calibration, the system performance will be reduced and the false trigger rate will be increased. Therefore, the radar needs to be checked for the installation position or to be re-calibrated.
- The radar system requires special performance to detect relevant targets. When affected by the environment such as under electromagnetic interference or by the target itself, the detection will be disturbed and the system performance will be reduced.
- The radar system is installed in front of the vehicle, and no other
  obstacles are allowed in the field of view of the radar sensor. In
  the installation position, the radar will be affected by dust and snow.
  When the radar is completely covered by snow, the system may be
  turned off.
- The target will not be detected until it appears in the detection range of the sensor; When the target changes lanes or cuts in too close, the system may not detect the target in front.
- Targets that cannot be clearly identified, such as motorcycles or bicycles, and vehicles with high driving positions are often detected too late or cannot be detected.

### **Precautions**

### Warning

- The driver is responsible for safe driving without dangerous situations.
- AEBS is only a driver assistance system and cannot exempt the responsibility of the driver to drive the vehicle safely. The driver must be fully responsible for all traffic scenarios.

(Continued)

#### Warning

- Even if the traffic conditions are not very dangerous, AEB may still give alarms and apply brakes, such as power loss of vehicle ahead, overtaking, or passing through curves, so the driver must be ready to take over the vehicle at all times
- AEBS cannot avoid all accidents in all traffic scenarios.
- AEBS cannot respond to oncoming vehicles, animals, and crossing vehicles.
- When the AEBS fails or the system cannot work properly, please go to a ZM Trucks authorized service station for repair immediately.
   Do not modify it without authorization.
- The braking performance of AEBS depends on the braking system of the vehicle.
- When the ESC/EBS MIL is illuminated, the AEBS will not work properly. Please check and troubleshoot related faults in time.
- Do not use AEBS when the vehicle is being towed, the vehicle is placed on a drum bench, the vehicle is driving on a sloped curve, or the radar camera is blocked or obscured by the deformed components.

#### ATTENTION:

- When the AEBS automatic emergency braking function is activated for more than 10 times, the combination instrument will illuminate the AEBS fault indicator, and the automatic emergency braking function will be disabled. You should contact a ZM Trucks authorized service station as soon as possible to have the system repaired.
- When the AEBS automatic emergency braking function has been used for several times, the AEBS fault indicator will be on until you

resume using it several times, and the AEBS fault indicator will be off.

# **Electronic Braking System (EBS)**

The electronic brake system (EBS) is used to reduce the response time and pressure building time of the braking system, shorten the braking distance, and improve the overall braking performance of the vehicle.

### **Warning**

When the EBS fails, the yellow EBS MIL will be illuminated on the instrument cluster. Please contact the ZM Trucks authorized dealership as soon as possible to inspect and repair the system.

# **Electronic Stability Control (ESC)**

### **Function Introduction**

The Electronic Stability Control (ESC) is a system designed to assist in the stability of the vehicle. It is intended to improve the handling performance of the vehicle and prevent the vehicle from losing control when it reaches its dynamic limits. The ESC improves the safety.

The ESC mainly has two functions:

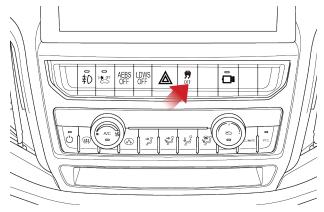
- Direction Control: When the vehicle is oversteered or understeered. the ESC brakes a single wheel to correct the driving direction of the vehicle and ensure the stability of the direction.
- Anti-Rollover: When the vehicle is at risk of rollover, the ESC will reduce the motor torque or brake the vehicle to slow down the vehicle and prevent the vehicle from rolling over.

# **Operating Instructions**

#### **ESC Activation**

After the vehicle is started, the ESC will be automatically activated.

### **ESC Deactivation**



You can deactivate the ESC function by pressing the ESC OFF button in the instrument panel. In this case, the ESC OFF indicator will be illuminated in the instrument cluster to remind you that the function is deactivated

### ATTENTION:

When the ESC is faulty, the yellow ESC MIL on the instrument cluster will be illuminated. You should contact a ZM Trucks authorized dealership as soon as possible to have the system repaired.

# Audible Vehicle Alternating System (AVAS)

### **Function Introduction**

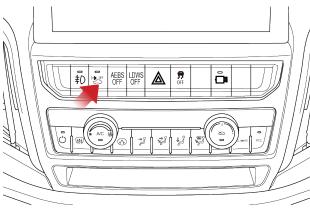
This vehicle is equipped with an Audible Vehicle Alerting (AVAS) system. When the vehicle speed is below 12 mph (19 kph), the warning system will activate. During acceleration, as the vehicle speed gradually increases, the alert tone will progressively intensify until it deactivates. Conversely, if the vehicle speed gradually decreases, the alert tone will diminish accordingly. When the vehicle comes to a complete stop, the system will automatically disable the warning tone.

# **Operating Instructions**

#### **AVAS Activation**

After the vehicle is started, the AVAS will be enabled by default.

### **AVAS Deactivation**



You can deactivate the AVAS function by pressing this button in the instrument panel.

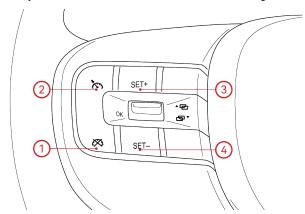
# **Cruise Control**

### **Function Introduction**

You can use the Cruise Control (CC) system to keep the vehicle speed within a certain range without keeping your foot on the accelerator pedal.

# **Operating Instructions**

You can set the Cruise Control through the button on the left side of the steering wheel. After being enabled, the Cruise Control enters the standby state, and the Cruise Control status indicator is green.



#### Cruise Control Off Button

Press this button to deactivate the cruise control system.

#### 2 Cruise Control On Button

Press this button to activate the cruise control system.

### 3 SET/+ Button

Press this button to activate cruise control or increase cruise control speed.

#### 4 SET/- Button

Press this button to activate cruise control or reduce cruise control speed.

# **Setting Vehicle Speed**

Press the SET/+ or SET/- button to activate the cruise control system. The Cruise Control status indicator on the combined instrument will light up, and the current speed will be set to the cruise speed.

# Restoring Set Speed

When the cruise control is set at the desired speed and the brake or accelerator pedal is pressed, the cruise control system will temporarily exit, and the set speed will be saved ton the system. To restore the set speed, when the speed reaches about 19 mph or above, press the recovery button of the cruise control system. The vehicle will resume the set speed.

### Acceleration with Cruise Control Activated

If the cruise control system is enabled, press the SET/+ button to increase the speed. Hold the SET/+ button to increase the speed faster.

### **Deceleration with Cruise Control Activated**

If the cruise control system is enabled, press the SET/- button to reduce the speed. Hold the SET/- button to decrease the speed faster.

# **Using Cruise Control on Hills**

Cruise Control performance while going downhill/uphill depends on the vehicle speed, load, and the slope gradient. When the vehicle is going up a steep hill, you may need to depress the accelerator pedal to

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maintain speed. When the vehicle is going downhill, you may need to apply the service brake to maintain speed. After the service brake is applied, Cruise Control will be deactivated.

### **Cruise Control Deactivation**

You can deactivate the Cruise Control in any of the following ways:

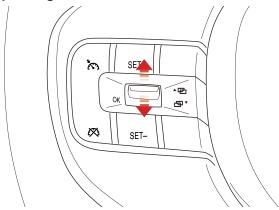
- Shift the gear to neutral (N) position.
- Press the Cruise Control Off button to turn off cruise control

# **Tire Pressure Monitoring System**

### **Function Introduction**

This vehicle is equipped with a Tire Pressure Monitoring System (TPMS), which displays the tire pressure status of the vehicle at any time.

# **Operating Instructions**



Press the OK button on the left side of the steering wheel to enter the tire pressure display interface. Press the OK button again to exit the tire pressure display interface. In this interface, you can check the tire pressure and temperature of each tire. When the tire pressure is too low, the TPMS fault warning light will be illuminated in the instrument cluster.

### **Precautions**

### Note

During driving (speed  $\geq$  3 mph [5 kph]), if there is no operation on the tire pressure interface for ten seconds, it will automatically go back to the home page.

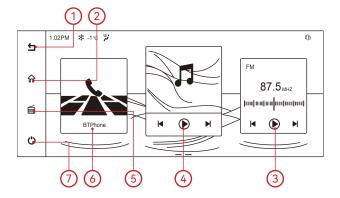
# **Multimedia Overview**

### **Function Introduction**

This vehicle is equipped with a multimedia system that for radio and music playback and hands-free phone calls.

# **Operating Instructions**

**Home Screen of Application Center** 



### 1. Return

Click to return to the previous operation interface.

#### Main Menu

Click to enter the main menu

#### 3. Radio

Click to enter the radio menu.

### Music Player

Click to enter the music player menu.

### Radio (In Sidebar)

Click to enter the radio menu

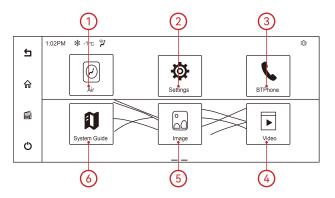
### 6. Phone

Click to enter the dial pad screen.

### Power Button

Click to turn off the multimedia system.

### **Second Screen of Application Center**



### 1. Air Condition

Click here to enter the A/C control interface.

### 2. Settings

Click here to enter the system settings interface.

### 3. BTPhone

When the bluetooth is connected, click to enter the keyboard interface.

### 4. Video

With USB device connected, click here to enter the video viewing.

### 5. Image

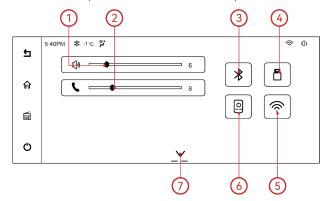
With USB device connected, click here to view pictures.

### 6. System Guide

Click to enter the system guide interface.

### **Notification Center**

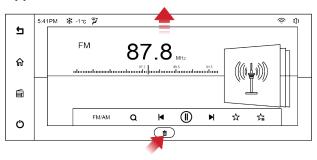
Pull down the top of the multimedia screen to open the notification bar.



- 1. Drag the progress bar to adjust the volume of media.
- 2. Drag the progress bar to adjust the screen brightness.
- 3. Click here to turn Bluetooth on/off
- 4. Click the icon here to turn on/off USB.
- Click here to turn off Wi-Fi.

- Click here to turn off the display screen.
- Close the notice bar.

# **Application Process**



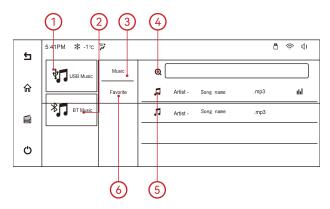
Slide the multimedia screen up to view the currently used applications. Drag up to the top to delete the application process, and click the button below to delete all background application processes.

# Music Playback

### **Function Introduction**

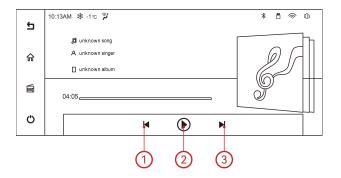
You can enter the music player interface when a Bluetooth or USB device is connected

# **Operating instructions**



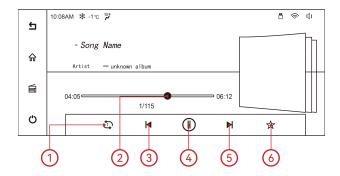
- When USB device is connected, click to enter USB music play interface.
- 2. When the Bluetooth is connected, click to enter the Bluetooth music play interface.
- Play the music list when USB is inserted or when Bluetooth is connected
- Click to search for songs in the current music list.
- Click to enter the music play interface.
- Click to switch to the favorite music list.

### **Bluetooth Music Playback Interface**



- Click here to play the previous track.
- 2. Click here to pause or resume.
- 3. Click here to play the next track.

### **USB Music Playback Interface**



- Click here to switch the playback mode, including shuffle play, song repeat, and list repeat.
- 2. Click or drag the progress bar to adjust the playback progress.
- 3. Click here to play the previous track.
- 4. Click here to pause or resume.
- 5. Click here to play the next track.
- 6. Click here to favorite/unfavorite.

#### ATTENTION:

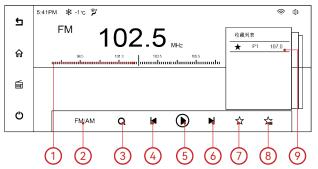
Before connecting your mobile phone or other multimedia device to the USB port, ensure the security feature on your device are activated to prevent viruses. Trojans or third-party illegal software from affecting the IHU system.

# Radio

### **Function Introduction**

This vehicle is equipped with a radio function, which allows you to listen to local radio stations

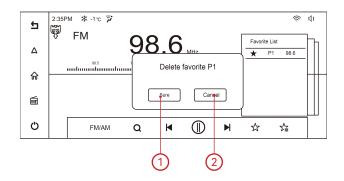
# **Operating Instructions**



- This is the radio band information.
- Click here to switch AM/FM mode.

- Click here to search for radio station
- Click here to switch to the previous radio station.
- Click here to pause/resume the radio.
- Click here to switch to the next radio station.
- Click here to favorite/unfavorite the current radio station.
- Click here to enter radio favorite menu
- This is the list of favorite radio stations. Long press to delete a favorite radio stations.

### Delete Favorite Radio Station



- Click Yes to delete the current favorite radio station.
- Click to Cancel to return to radio station interface

### Note

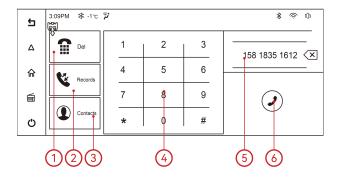
Poor signal will affect the system's radio playback.

# Communication

### **Function Introduction**

This vehicle is equipped with a phone function that can be used through the multimedia system.

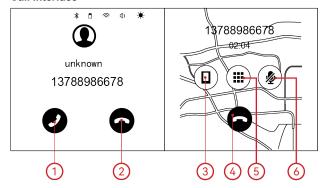
### **Dial Pad Interface**



- 1. Click to enter the keyboard interface.
- 2. Click to enter the previous call interface.

- Click to view the contacts list.
- 4. Dial a phone number.
- The entered figures are displayed here and deleted by clicking the Delete button.
- Click to start a call.

### **Call Interface**



- Click here to answer the call.
- Click here to reject a call.
- Click here to switch between vehicle or bluetooth device.
- Click here to hang up.
- 5. Click here to enter keyboard dialing interface.
- Click here to mute/unmute.

### Note

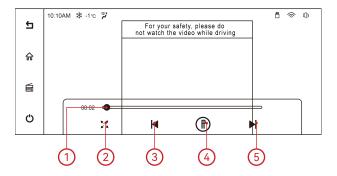
Do not operate your phone in hazardous areas.

# Video Playback

### **Function Introduction**

The multimedia system is equipped with a video playback function, where you can watch videos using an USB device.

# **Operating Instructions**



Click or drag the progress bar to control the video playback progress.

- Click here to play the current video in full screen.
- Click here to switch to the previous playable video.
- Click here to pause/play the current video.
- Click here to switch to the next playable video.

### **Precautions**

### Warning

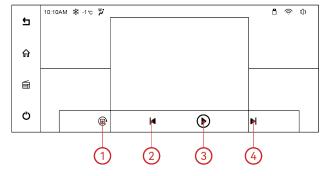
Do not watch videos while driving.

# **Image Viewer**

### **Function Introduction**

You can view images saved to a USB device.

# **Operating Instructions**



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- Click here to rotate the image 90° clockwise.
- Click here to switch to the previous image.
- 3. Click here to start/pause the image slide show.
- Click here to switch to the next image.

# **System Settings**

### **Function Introduction**

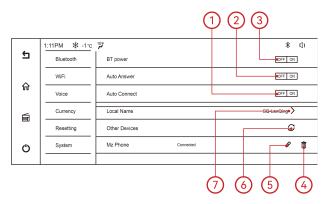
You can adjust the multimedia system to cater to your personal preferences and needs.

# **Operating Instructions**



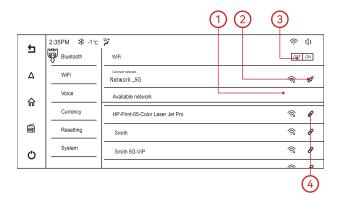
- Click here to enter the Bluetooth settings, where you can connect to Bluetooth, set automatic answering and connection functions.
- Click here to enter the wireless network settings, where you can connect to WIFI
- Click here to enter the sound settings, where you can set the touch tone, adjust the volume of media and calls.
- Click here to enter the general settings, where you can select the system language, screen brightness, time and date.
- Click here to enter the reset settings, where you can reset the system or vehicle settings.
- Click here to enter the storage information settings, where you can view storage information.

### **Bluetooth Settings**



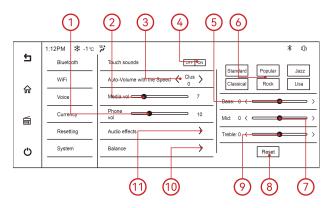
- Click to turn on/off the automatic connection function.
- Click to turn on/off the automatic answer function
- Click to turn on/off the vehicle Bluetooth
- Click to delete the matched Bluetooth device.
- Click to connect the current Bluetooth device
- Click to refresh the list and search for nearby Bluetooth devices again.
- 7. Current device Bluetooth name, click here to modify the name.

### WIFI Settings



- Click to refresh the currently searched device.
- Click to manually add Wi-Fi network and input Service Set Identifier (SSID) to join other networks.
- Click to turn Wi-Fi on/off.
- Click to connect to the current network.

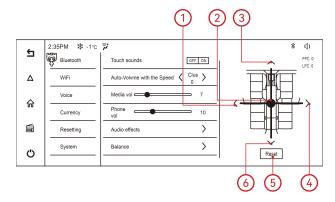
### **Sound Settings**



- Drag this list slider to adjust the volume of the call.
- 2. Drag this list slider to adjust the volume of the media.
- 3. Click this button to adjust the volume corresponding to the feature.
- 4 Click the switch here to turn on/off the touch tone
- Click the button on both sides or drag the slider to adjust the bass sound gain.
- 6. Click the key to enter the sound effect switching mode.
- Click the button on both sides or drag the slider to adjust the gain of mid-tone sound effect.
- 8. Press the key to restore the sound setting to the factory setting.

- Click the button on both sides or drag the slider to adjust the hightone sound effect gain.
- 10. Click key to enter sound field interface.
- Click the key to enter the sound interface.

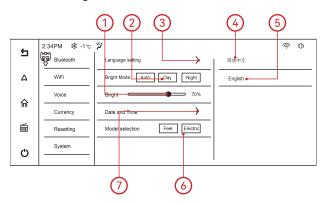
### Sound Field Adjustment



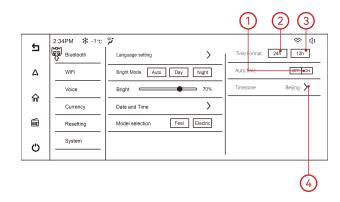
- Press the key to move the sound field slider to the left.
- 2. Click the button to move up the sound field slider.
- 3. Drag the slider here to adjust the sound field position.
- 4. Click the key to move the sound field slider to the right.
- Click the reset button and the sound field adjustment slider returns to the original position.

Click the button to move down the sound field slider

### **General Settings**

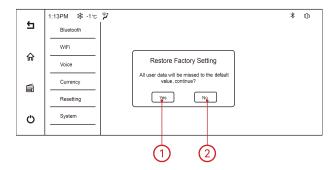


- Drag the slider here to adjust the screen brightness.
- Click to set the corresponding brightness mode.
- Click to select the system language.
- Click to select simplified Chinese mode.
- Click to select English mode.
- Click to select different models. 6.
- Click to set the date format.



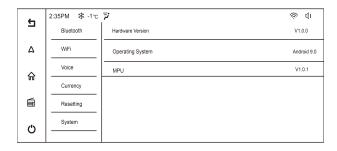
- Click on or off the automatic time setting function.
- Click the key to enter the 24-hour mode.
- Click key to enter 12-hour mode.
- Click key to pop up time zone setting box.

### **Restore Settings**



- 1. Click here to restore all user data to the default values.
- 2. Click here to cancel data restoration.

### **System Settings**



This interface will display the version information of the display device system, including operating hardware version, system version and Micropressor Unit (MPU) version.

# **Driver's Tools**

This vehicle is equipped with driver's tools when it leaves the factory. The driver's tools are stored in the storage box under the right seat for emergency use in specific situations, including:

- Driver's tool kit
- Reflective vest
- Warning triangle
- Parking chocks
- Jack

### **Driver's Tool Kit**

The driver's tool kit includes three sizes of double open-ended wrench, a dual-purpose screwdriver bit, a pair of slip joint pliers, an adjustable wrench, a tire pry bar, and a wheel nut socket wrench.

### **Reflective Vest**

Reflective vests can increase visibility and reduce the risk of accidents on the road. If it is necessary to park the vehicle in an emergency, you should wear the reflective vest to allow for greater visibility to other vehicles on the road

# **Warning Triangle**

When the vehicle cannot be driven in an emergency, turn on the hazard warning lights and set up the warning triangle away from the back of the vehicle. The distance of the warning triangle will vary in different circumstances and road sections. Please place the warning triangle correctly according to local regulations.

### **Parking Chocks**

Parking chocks can assist in preventing vehicles from slipping and reduce the risk of accidents. When parking on a ramp or in other emergency situations, fix the wheels using the two parking chocks that come with the vehicle. Add auxiliary objects, if necessary, according to the specific situation to avoid accidental slipping.

### Jack

Use the jack to lift the heavy objects. It can also be used to lift and support the vehicle during maintenance.

# Fire Extinguisher

This vehicle is equipped with a 2.2 lbs (1 kg) dry powder fire extinguisher, which can be used in case of emergency.

### **Warning**

In an emergency, extinguish the fire and contact the fire department for disposal, provided that your safety is ensured.

# **Trailer Towing**

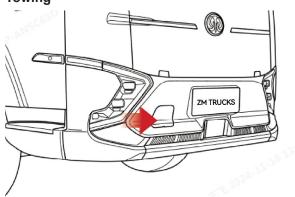
# **Towing Rescue**

If the vehicle cannot be driven due to breakdown or accident, please contact a ZM Trucks authorized dealership immediately for professional towing rescue service. Do not tow the vehicle at will to avoid accidents or vehicle damage.

Appropriate equipment and correct methods must be used for towing to prevent damage to the vehicle during any towing process, and attention must be paid to the safety of surrounding personnel.

- All laws and regulations applicable to warning signals, night lighting, speed, and other items must be complied with.
- Corresponding safety measures must be taken.
- The towing speed of any vehicle should not exceed 18.6 mph.
- Any loose or protruding parts of the damaged vehicle should be secured before moving.
- Operators should avoid access from underneath the vehicle lifted by the towing equipment, unless the vehicle is supported by sufficient safety brackets.
- No towing operation that endangers the safety of the rescue vehicle operator or any bystander or other drivers should be carried out for any reason.

# **Towing**



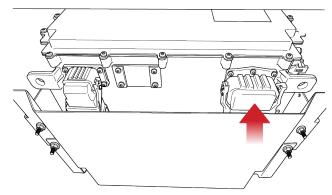
The vehicle is equipped with a towing hook at the front. The front towing hook is located inside the right cover plate at the front of the vehicle.

### Front-End Towing (Front Wheels off the Ground)

To perform front-end towing on a faulty vehicle with the front wheels off the ground, the following steps need to be performed:

- 1. Release the electronic parking brake (EPB) of the vehicle.
- Lift the front wheels of the vehicle and position them on the trailer of the rescue vehicle.
- 3. Connect the faulty vehicle to the trailer using a safety chain.

4. Ask professional personnel to remove the three-phase wire plug from the all-in-one end, disconnect the high voltage wire of the drive motor from the all-in-one, and take effective measures to prevent water or other foreign objects from entering.



The all-in-one controller is located on the left side of the vehicle, as shown in the figure, which is connected to the high voltage wire of the drive motor.

### Front-End Towing (All Wheels on the Ground)

When the steering, braking and corresponding signal devices are normal and road regulations permit, your vehicle can be towed with all wheels on the ground:

1. A tow bar must be used between the towing vehicle and the faulty vehicle

- The steering and braking of the towed vehicle and trailer should be consistent
- 3. Ask professional personnel to remove the three-phase wire plug from the all-in-one end, disconnect the high voltage wire of the motor from the all-in-one, and take effective measures to prevent water or other foreign objects from entering.

### **Precautions**

If the rear axle is damaged or suspected to be damaged, the axle shaft needs to be removed

- Remove the axle shaft
- Cover the hub opening to prevent lubricant loss, dust or foreign objects from entering.
- 3. After towing a vehicle, wedge the wheels and install the axle shaft.
- Before disconnecting the towing vehicle, please activate the EPB to prevent slipping. Check and refill the rear axle if necessary.

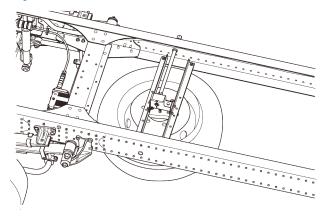
#### ATTENTION:

- If this vehicle is stuck in mud or soft dirt, do not suddenly tow the vehicle outward. Also avoid oblique or lateral traction to prevent the vehicle chassis from damage.
- When starting the towing vehicle, pay attention to controlling the vehicle speed and avoid towing the faulty vehicle too fast or too hard to prevent vehicle damage and endangering other drivers.
- When towing this vehicle, the towing vehicle speed must not exceed 18.6 mph to avoid damage to the vehicle drive motor.

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- When arriving at the destination, be sure to slow down and stop towing the vehicle. After completing the towing operations, please clean up the site in time, and close the traction port cover.
- The towing hook can be used to get the vehicle out of trouble, and do not tow the vehicle for long distances.
- Towing is allowed only when there is no safety risk to the vehicle. In case the battery pack is deformed, leaks, smokes, etc., you should eliminate safety risks immediately.

# **Spare Tire**



# **Removal of Spare Tire**

Loosen the lifter locking bolt.

- Turn the spare tire rocker counterclockwise and slowly lower the spare tire.
- 3. After the spare tire lands, take out the spare tire.

### **Installation of Spare Tire**

- Put the spare tire flat under the spare tire carrier with the front side facing up, lower the spare tire lifter bracket, and clamp the bracket to the center hole of the rim.
- Turn the spare tire rocker clockwise, slowly raise the spare tire and prevent the spare tire from rotation to avoid causing the chain to twist. Tighten the spare tire lifter locking bolts to the specified torque of 60-80N.m.

### Note

Check the bolt of the spare tire carrier for tightness regularly.

# **Brake Failure**

# **Emergency Operation**

- If the brake fails suddenly while driving, please turn on the hazard warning lights immediately, hold the steering wheel firmly, and pay attention to avoid and alert passing vehicles by visual and audible alarms.
- Slowly turn on the electronic parking brake, observe the driving conditions and use ramps or the runaway truck lane to assist parking if necessary.

• For special road conditions such as winding mountain roads, bridges, cliffs, etc., you should also hold the steering wheel firmly to avoid getting into a dangerous situation.

### Follow-up Procedures

After parking the vehicle, place warning signs around the vehicle and block the wheels with wedges to prevent the vehicle from slipping. Contact a ZM Trucks authorized dealership for inspection and repair of the vehicle.

### **Prevention Measures**

- Regularly maintain the brake system.
- Check the free travel of brake pedal regularly.

### Warning

It is dangerous to immediately apply emergency brakes if the brakes fail, otherwise it may cause the vehicle to slip or possibly roll-over.

# **Steering Failure**

# **Emergency Operation**

- If you lose control of steering wheel suddenly while driving on common roads (straight driving), release the accelerator pedal first, turn on the hazard warning lights as soon as possible, and depress the brake pedal evenly.
- If you lose control of steering wheel suddenly while driving on special roads (curves, mountain roads), release the accelerator pedal immediately, apply the brakes quickly to stop the vehicle in

time to prevent the vehicle from running off the road or colliding with other vehicles.

### Follow-up Procedures

After parking the vehicle, place the warning signs around the vehicle and block the wheels with wedges to prevent the vehicle from slipping and call the ZM Trucks service hotline.

### **Prevention Measures**

- Regularly maintain the steering system.
- Before driving, check whether the steering wheel rotation meets the standard requirements.
- Before driving, check whether the steering pitman arm, ball joint, tie rod. etc. are loose.
- When braking, try to avoid wheel locking.

#### ATTENTION:

Do not perform emergency braking immediately if you lose control of the steering wheel suddenly on common roads, otherwise it will cause the vehicle to slip or possibly roll-over.

# Flat Tire

# **Emergency Operation**

In the case of tire blowout, follow the steps below:

 Hold the steering wheel firmly with both hands, control the driving direction, and turn on the hazard warning lights.

- Release the accelerator pedal completely, repeatedly and lightly depress the brake pedal, and try to control the vehicle to drive in a straight line.
- After slowing down, make sure that there are no vehicles or pedestrians behind and on the right side of the vehicle, and slowly pull over to the side of the road.
- After parking the vehicle, place the warning signs around the vehicle and block the wheels with wedges to prevent the vehicle from slipping.
- After the vehicle stops completely, contact a professional towing service.

### **Prevention Measures**

- After parking the vehicle, place the warning signs around the vehicle and block the wheels with wedges to prevent the vehicle from slipping.
- After the vehicle stops completely, contact a professional towing service.
- Before driving, check the tire tread and tire pressure for bulges, cracks, cuts, nails, and abnormal tread wear.

### ATTENTION:

- In the case of tire blowout, do not turn the steering wheel sharply, otherwise, vehicle drifting will occur.
- It is dangerous to perform emergency braking operations or brake hardly (especially on highways) to avoid roll-over.

# **Vehicle Skidding**

# **Emergency Operation**

- Take your foot off the accelerator pedal and gently turn the steering wheel in the direction of the skid.
- Once the vehicle begins to regain traction, smoothly straighten the steering wheel to regain control.

### **Prevention Measures**

- Before driving, check whether the tire pattern, pressure and other items meet the safety standards.
- After the vehicle is started, check the braking effect of the vehicle at low speed. If there is any brake deviation, stop the vehicle immediately, check the braking system and troubleshoot the fault before driving.
- Overloading will reduce the anti-rollover capacity and driving stability.
   Therefore, please load the vehicle properly.
- When driving on slippery or icy roads, it is recommended to use the tire chains, drive at low speed, depress the brake pedal carefully for braking, and avoid emergency braking.
- When going down a long steep hill, the center of gravity shifts forward, making the vehicle more prone to tipping. So, hold the steering wheel firmly and apply the brakes intermittently to control the vehicle speed with the help of the motor drag force.
- Do not use the brakes while steering, accelerating or decelerating to ensure the optimal coordination of braking.

- Before turning, be sure to slow down in advance and turn the steering wheel properly.
- It is dangerous to coast in neutral, especially when going downhill, to avoid sudden braking of the vehicle due to excessive inertia forces.

### Warning

- When the vehicle is skidding on wet or icy roads, do not brake and steer at the same time to avoid aggravating the skidding hazard.
- If skidding is caused by braking (vehicle drifting), release the brake immediately. When it is necessary to slow down, auxiliary braking can be used.
- When the vehicle slips on a curve, stabilize the vehicle first and then apply the brake intermittently.

# Accidental High-Voltage Shutdown

# **Emergency Operation**

In the event of an unexpected high-voltage power loss while driving, follow these steps:

### 1. Activate Hazard Lights

Press the hazard warning light button to alert other drivers. Attempt to restart the vehicle.

### Inspect the Vehicle

If the motor restarts, safely pull over to a secure location and inspect the vehicle for potential issues. Do not continue driving until the risks are addressed.

### 3. Use Inertia to Pull Over (if restart fails)

If the vehicle cannot be restarted, use its remaining momentum to safely guide it to the side of the road.

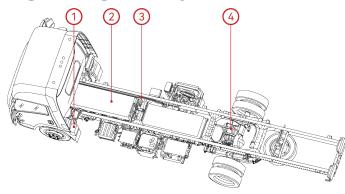
# Follow-up Procedures

Go to a ZM Trucks authorized dealership regularly to maintain and inspect the vehicle to ensure the stable operation of vehicle systems.

### **Prevention Measures**

After parking the vehicle, place the warning signs around the vehicle and call the ZM Trucks service hotline immediately.

# **High-Voltage Battery Information**



- 1 Charging Port
- 2 High Voltage Battery
- 3 —High Voltage Harness
- 4 Drive Motor

#### ATTENTION:

- During startup and use, do not touch parts with high voltage warning signs or orange parts of the vehicle.
- It is dangerous to hit or bump the high voltage battery of the vehicle.

#### Note

 When the high voltage battery and motor Malfunction Indicator Light (MILs) on the instrument cluster stay on, please call the ZM

(Continued)

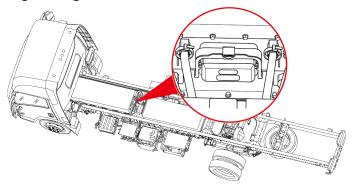
#### Note

Trucks service hotline immediately and use a diagnose tool to read the Diagnostic Trouble Codes (DTC).

- If the EIC system emits smoke, catches fire, or explodes, please evacuate from the vehicle immediately, call the police and take safety measures.
- When working on the EIC system, please wear insulating gloves, insulating shoes, and insulate the tools. Do not touch the operator during working tasks.

# High Voltage System Shut Down Procedure

# **High Voltage Cutoff from Outside**



1. Park the vehicle, apply the Electric Parking Brake (EPB).

- Disconnect the negative battery cable.
- Remove the MSD maintenance switch, buckle up the buckle, pull the handle of the maintenance switch and the maintenance switch at 90°, and gently pull out the maintenance switch.
- 4. Remove the MSD maintenance switch on the battery high-voltage box in the same way, and the high-voltage system will be removed.

### Warning

- Be sure to wear appropriate personal protective equipment when touching any high-voltage components.
- It is dangerous to touch the high voltage battery components even though the high voltage system has been deactivated. Be sure to wear appropriate personal protective equipment if it is necessary to operate the high voltage battery components.
- If any damage is found in the high voltage components, be sure to wrap the damaged parts with the insulation tapes.

### Note

In an emergency, the operator can cut the orange harness on the MSD to prevent the harness from being energized again and allow the vehicle to deactivate the high voltage system automatically.

# Vehicle Fire Emergency Procedures

If a vehicle catches fire, take the following steps based on the severity of the situation:

### 1 Assess the Fire

If the fire is small and manageable, use an appropriate extinguishing method, such as a dry powder or carbon dioxide fire extinguisher, or cover the flames with dry sand to put out the fire.

### 2. For Larger Fires or Damaged High-Voltage Batteries

If the fire is extensive or the high-voltage battery is severely damaged (e.g., crushed or bent), continuously douse the flames with a large quantity of water to prevent escalation.

### 3. Prevent Fire Spread

Remove any nearby flammable materials from the area around the vehicle to reduce the risk of the fire spreading further.

# Occupant Evacuation During a Vehicle Fire

### **Evacuate Immediately**

All occupants should exit the vehicle as guickly as possible.

### **Call for Emergency Assistance**

Contact emergency services immediately, describe the situation, and inform them that the vehicle on fire is a fully electric vehicle equipped with high-voltage components.

### 3. Rescue Assistance for Trapped Occupants

If rescue personnel find occupants trapped inside and the doors cannot be opened, they should use sharp, sturdy tools to break the edge of the window glass to help the occupants escape safely.

In the event of a vehicle fire, follow these steps:

### ATTENTION:

When a high-voltage component is on fire and the fire is small, use dry powder fire extinguishers, carbon dioxide fire extinguishers and other fire extinguishers suitable for lithium batteries to control the fire.

# **Vehicle Rescue In Flooded Waters**

When a vehicle drives through flooded water, it may appear undamaged, but its high-voltage system could pose a risk of electrical leakage. Rescue personnel must take the following precautions to ensure safety:

### **Use Protective Equipment Waters**

Rescue personnel must wear appropriate protective gear before handling any high-voltage components in or near water to avoid electric shock injuries.

### Warning

- Never touch high-voltage system components in water without protective equipment.
- Once the vehicle has been removed from the flooded area, allow it to dry completely before performing any inspections or repairs to eliminate the risk of electric shock.

# **Recommended Maintenance**

To ensure normal use, efficiency and reliability of the vehicle and to reduce the possible maintenance costs incurred it is necessary to carry out routine maintenance and scheduled maintenance to the vehicle

The user can complete the routine maintenance in accordance with the relevant instructions of this manual

The systems installed on the vehicle are complex and there are strict after-sale service requirements for electric vehicles in accordance with national laws and regulations. Therefore, ZM Trucks recommends that you should complete all scheduled maintenance of the vehicle at ZM Trucks authorized dealership.

#### Note

If you have any questions about how to maintain your vehicle, please contact a ZM Trucks authorized service station directly for help.

# Coolant

### **Coolant Selection**

Please select the coolant or antifreeze with the corresponding freezing point according to driving environment to ensure the normal operation of the vehicle cooling system.

# Inspection of Coolant

After the temperature of the coolant cools after driving, check whether the fluid level in the reservoir is between the MIN to MAX marks. If the coolant is insufficient, the warning light on the instrument cluster will be illuminated to remind you to add coolant.

If the coolant has suspended matter, sediment or discoloration, replace it with new coolant immediately.

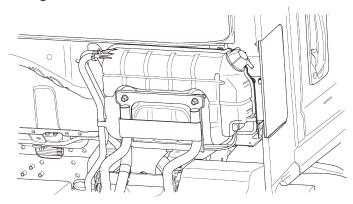
Regularly check the freezing point of the coolant to ensure that it meets the requirements of the local environment and replace it regularly.

# Replace the Coolant

Drain the coolant as below:

- 1 Park the vehicle on a level surface
- Turn on the parking brake switch.
- 3. After the coolant temperature is safe enough to handle, unscrew the auxiliary water tank filler cap.
- 4. Loosen the drain plug at the bottom of the radiator to drain the coolant

### **Filling of Coolant**



### Fill the coolant as below:

- Add the coolant slowly and evenly until it reaches the MAX level, and tighten the filler cap.
- Turn on the vehicle and run the water pump for about 10 minutes.
- Turn off the vehicle and add coolant to the MAX level.
- 4. Tighten the auxiliary water tank filler cap.

### Warning

 Use the coolant recommended by ZM Trucks when refilling and changing coolant. Do not mix different types of coolant to avoid

(Continued)

### Warning

- reactions that may corrode the motor and radiator or block the cooling system.
- Never add liquids other than coolant to the cooling system to avoid damaging the motor and other components.

### ATTENTION:

- Check, add and replace the coolant regularly.
- Rinse the cooling system repeatedly with clean water for at least 3 times when adding or draining the motor coolant for the first time.
- When adding the coolant, keep the motor and environmental temperature no more than 113°F (45°C) to avoid burns.
- Add the coolant slowly and evenly until it reaches the MAX level.
- After the vehicle is turned off, the motor, ECU, radiator and other components are still hot. In this case, do not open the auxiliary water tank filler cap. Otherwise, hot coolant or steam will spray out, causing burn injuries. Wait until these components have cooled before carrying out the inspection, replacement and filling of the coolant.

# Cleaning of Radiator

You need to check the outer surface of the radiator frequently and remove any debris (do not flush it with high-pressure air or water).

# **Maintenance of Cooling System**

Check for cooling system leaks before driving. There are 4 common reasons for water leakage:

If the radiator seams leak, the radiator should be replaced.

- An aged and cracked hose as well as rust on the connection to the cooling pipe will cause coolant leakage. Please replace the pipe.
- Using inferior coolant will cause electrolytic corrosion and leaking. Use a special cleaning agent to clean the cooling system and add new coolant that meets the requirements after installation.
- The cooling pipe clamp is loose. Use the corresponding tool to replace or tighten the clamp.

# **Inspection Of The Electric Drive System**

Before turning on and driving the vehicle every day observe the data on the instrument cluster to check whether the vehicle is ready. Look for the following notifications on the instrument cluster:

- Malfunction indicator or warning lights
- Motor and controller temperature are within normal range
- Voltage, current and motor feedback speed is zero

If there is any abnormality, do not turn on the vehicle with high voltage, record the fault status and data, and contact a ZM Trucks authorized dealership immediately.

# Inspection Of Fluid Leakage And **Electrical Leakage**

### Inspection of Fluid Leakage

Before driving, check whether there is any fluid dripping on the ground from the vehicle. Check whether there is any seepage on the surface of the key components of the vehicle. If any, drive the vehicle after troubleshooting.

# Inspection of Electrical Leakage

Check whether the vehicle harness is damaged, got wet or corroded. If so, please replace it in time to avoid vehicle fire caused by electrical leakage.

# **Inspection Of Bolts**

Check the tire nuts for looseness and the bolts for cracks before driving. Both the wheel fastening nuts and bolts have a right hand thread. Replace any broken bolts.

### Note

The bolts of a new vehicle need to be re-tightened after running-in for 1.200 mi (1.900 km), and then every 3.000 mi (4.800 km).

# **Lighting Inspection**

To check the vehicle lighting, please follow the steps below:

1. Turn on the vehicle and keep the parking brake applied.

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- Check whether there is any light failure or warning indicator lit on the instrument cluster.
- Turn the light stalk to check whether each light is damaged or has other faults.

# **Inspection Of Horns And Wipers**

# **Inspection of Horns**

Turn on the vehicle, press the horn button on the steering wheel to check whether the horn is working properly. If not, please contact a ZM Trucks authorized dealership.

# **Inspection of Wipers**

Turn on the vehicle and turn the wiper stalk to check whether the wiper is working properly at each position. If not, please contact a ZM Trucks authorized dealership.

# **Drainage Of Air Reservoir**

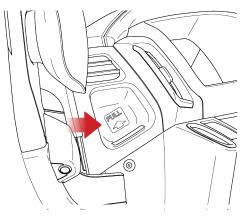
To drain the air reservoir, please follow the steps below:

- Park the vehicle on a flat surface.
- Lift the drain valve rod under the air reservoir to drain water from the air reservoir.

#### ATTENTION:

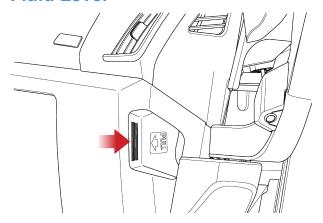
 In cold areas with high altitudes, the air reservoir should be drained regularly, otherwise the water will freeze, resulting in brake lock, failure to release the parking brake, etc.  When water is released from the drain valve, the air drying bucket needs to be replaced.

# **Inspection Of Brake Fluid Level**



The brake fluid filler is located on the left side of the instrument panel. Regularly check if brake fluid needs to be added.

# **Inspection Of Windshield Washer** Fluid Level



The windshield washer fluid filler is located on the right side of the instrument panel. Check the washer fluid level in the washer reservoir regularly and refill it when necessary.

# **High Voltage Battery**

### Maintenance of High Voltage Battery

The high voltage battery State of Charge (SOC) needs to be calibrated:

- Calibrate every 3 months.
- If the vehicle has been stored for more than 3 months, perform battery maintenance at least once before using it for the first time to restore the battery performance to the best condition.

Calibration method:

Fully charge the high voltage battery.

### Warning

If the high voltage battery or motor system fails, please contact a ZM Trucks authorized dealership for professional repairs.

# Coolant

### **Coolant Selection**

Please select the coolant with the corresponding freezing point according to driving environment to ensure the normal operation of the vehicle cooling system.

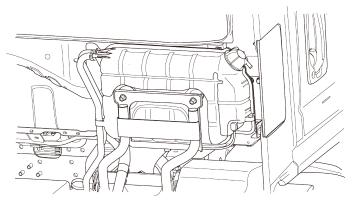
### Coolant

After the coolant temperature drops, check whether the coolant level in the reservoir is between the MIN to MAX marks.

If the coolant has suspended matter, sediment or discoloration, replace it with new coolant immediately.

Regularly check the freezing point of the coolant to ensure that it meets the requirements of the local environment and replace it regularly.

# **Filling of Coolant**



Fill the coolant as below:

- Slowly and steadily add coolant to reach the highest level, and tighten the auxiliary water tank cover.
- 2. After the vehicle is powered off and on, manually turn on the air conditioning A/C, blow face and foot mode, and long press the internal and external circulation mode for 5 seconds.
- 3. After the internal and external circulation light flashes, observe the liquid level; If there is a decline, repeat the above operation (1-3).
- 4. After filling, please fully tighten the auxiliary water tank cover.

### Warning

- Use the coolant recommended by ZM Trucks when refilling and changing coolant. Do not mix different types of coolant to avoid reactions that may corrode the motor and radiator or block the cooling system.
- Never add liquids other than coolant to the cooling system to avoid damaging the motor and other components.
- Do not step on the auxiliary water tank.

#### ATTENTION:

- Check, add and replace the coolant regularly.
- Rinse the cooling system repeatedly with clean water for ≥3 times when adding or draining the motor coolant for the first time.
- When adding the coolant, keep the motor and room temperature ≤113°F to avoid burns
- Add the coolant slowly and evenly until it reaches the MAX level
- After the vehicle is powered off, the motor, ECU, radiator and other components are still hot. In this case, do not open the auxiliary water tank filler cap. Otherwise, hot coolant or steam will spray out, causing burn injuries. Carry out the inspection, replacement and filling of the coolant after the temperature of the motor system drops.
- Only professionals can remove the pressure cap on the side of the auxiliary water tank.

# Cleaning of Radiator

After the radiator has been used for a period of time, insects, catkins, dirt or other residues in the radiator fins will reduce the cooling capacity of the cooling system. You need to check the outer surface of the

radiator frequently and clean the foreign objects in time (do not flush it with high-pressure gas or water).

### **Maintenance of Cooling System**

Check the cooling system to ensure that it does not leak before driving. There are 4 common reasons for water leakage:

- The radiator welding part leaks, and the radiator should be replaced.
- The aging and cracking of the hose and the rust of welding part of the pipe will cause coolant leakage. Please replace the pipe.
- Using inferior coolants will cause electrolytic corrosion and leakage of the cooling system. Use a special cleaning agent to clean the cooling system and add new coolant that meets the requirements after installation
- The cooling pipe clamp is loose. Use the corresponding tool to replace or tighten the clamp.

# **Front Axle**

# **Daily Inspection**

- Before driving, check that all parts are not deformed, the bolts and nuts connecting the parts outside the axle are not loose, and the axle wheel ends are lubricated sufficiently without leakage.
- During driving, pay attention to whether there is abnormal noise, wobbly steering or abnormal tire rotation.

### Axle Wheel End

This vehicle is equipped with the maintenance-free wheel ends, which need to be checked every 60,000 mi (97,000 km) or 12 months.

- Lift and support the axle, rotate the wheel, and check whether the wheel can rotate freely without abnormal noise, jamming or shaking.
- Shake the tire left and right to check whether the wheel hub bearing is loose or shaking.
- Check that the wheel hub bearing is sealed normally without grease leakage, and there is no rusty water inside of the wheel hub.

# **Drive Axle**

# **Change of Lubricating Oil**

Assembly	Media Name	Media Brand and Service Conditions
Main Reducer	- Gear Oil	GL-5 85W/90 (Temperatures Above -4°F (-20°C))
Wheel Reducer		GL-5 75W/140 (Temperatures Above -40°F
Common Wheel Hub		(-40°C)) GL-5+ 80W/90 (Temperatures Above -4°F (-20°C), change oil every 60,000 mi/96,560 km)
FAG Bearing Unit	Lithium Complex Grease	I
Other Grease Nipples	2# Lithium Grease	1

## **Tires**

Please check the following items of the tires regularly or before driving:

#### Tire Pressure

When checking tire pressure, note that the pressure will change with temperature.

#### Tread Pattern

The tread pattern affects the grip and control of the tire. The smaller the depth or a faded pattern, the worse the grip and control of the tire.

#### Tire Conditions

Check the tire conditions before driving:

- External damage.
- Foreign objects in the tread pattern.
- Foreign objects in the tire (dual tires).
- Cracks or dents.
- One-sided shoulder tire wear or irregular tread wear.

#### Tire Service Life

When the tire is used for more than 6 years, replace it with a new one.

#### Warning

- After parking the vehicle, wait for the tire to cool down before inflation or deflation.
- The tire pressure should be kept within a reasonable range. Too high or too low tire pressure will accelerate tire wear, increase power consumption, and lengthen the braking distance. In severe cases, tire blowout may occur, resulting in traffic accidents and even personal injuries.
- Before driving, you must check the integrity of the tread pattern.
   Excessive worn tread will cause serious slipping on wet roads (rainy days, snowy days) or when driving at high speed, resulting in loss of control of the vehicle and even personal injuries.
- Cracks, dents or external damage will cause the tire blowout. If any, the tire should be repaired or replaced immediately to avoid accidents.

#### ATTENTION:

- Please follow local and national regulations for the wear standard of the tire tread pattern. When the tread wear exceeds the specified value, the tire should be replaced as soon as possible.
- Avoid contact of tires with oil, grease, fuel, etc., as this may accelerate tire aging.
- When parking the vehicle, avoid only having part of the tire in contact with the ground or parking on road with sharp stones.

#### Note

The correct tire pressure is specified in the tire pressure table section.

# Suspension

### Inspection of Shock Absorber

If the vehicle jitters continuously while driving on poor roads, please pull over as soon as possible to check whether the shock absorber is leaking oil. After driving on poor roads for at least 6 mi (10 km), pull over and touch the shock absorber housing with your hand.

If the housing is not warm or if it is cold to the touch, it indicates that the shock absorber has no resistance inside and has failed.

### **Determination of Shock Absorber Oil Leakage**

If the shock absorber oil reservoir is dry and there is no oil stain on the dust cover, it indicates that the shock absorber is in good condition.

- If the shock absorber oil stain is damp, you can wipe it off and continue to drive. After two weeks, wipe off the oil stain again and drive for two weeks. If the oil stain no longer appears, the shock absorber will not leak oil
- If the oil is seeping from the reservoir and flowing on the surface of the lower cylinder, or the entire reservoir is covered with shock absorber oil, please go to a ZM Trucks dealership for inspection and repair.

## Inspection of Leaf Spring (Steel Leaf Spring)

#### Inspection Before Use

Before installation, the overall dimensions such as the end width and main leaf length must be checked. If they are inconsistent with values specified in the drawing, replace relevant parts.

The center bolt and center nut must be carefully checked to ensure there is no damage.

#### Installation Requirements

- The U-bolts must be tightened and re-tightened after running in of the vehicle for 1.800 mi (2.900 km).
- Check whether the clips and accessories are in good condition before installation. After driving the vehicle for 1,800 mi (2,900), check whether the clip is damaged and whether the clip nut is loose, and tighten it if necessary.

# Steering System

Before driving, check the free travel and looseness of the steering wheel, shake the steering wheel to ensure that it is locked. While driving, check whether there is heavy steering, shaking steering or steering offset. In case of any of these steering problems, please stop driving the vehicle and contact a ZM Trucks authorized dealership immediately.

# Low Voltage Battery

The battery is located on the left side of the vehicle. The service life and function of the battery is affected by many factors such as: the number of starts, driving style, driving conditions, climatic conditions, etc.

 If the battery is completely discharged multiple times, its service life may be shortened. Keeping the battery charged helps retain the length of it's service life.

• The starting capacity of the battery weakens over time. If the vehicle is parked without being charged for a long time, the battery may be depleted. The battery will need to be recharged.

#### Warning

- Battery electrolytes are corrosive, if it gets into the eyes or on the skin rinse immediately with plenty of water and seek medical care.
- The maintenance and care of the battery should only be handled by professionally trained personnel.
- Do not touch the positive and negative terminals of the battery with both hands or a conductor simultaneously at any time.
- If the low voltage battery catches fire, leave the vehicle immediately. If the smoke is inhaled accidentally, please go to an open area and seek medical attention as soon as possible.
- It is dangerous to connect the battery cell to an external 12V electrical appliance.
- It is dangerous to disassemble the battery without authorization.

#### ATTENTION:

If you notice the following, be sure to stop using the vehicle and cut off the power immediately. Contact the ZM Trucks authorized dealership for further guidance:

- Power cords, plugs or communication lines cracked or damaged.
- Signs of overheating, smoke and sparks.
- Battery pack damage (e.g. cracking), or battery leakage.

## Cleaning of Battery

Keep the battery clamp and battery surface clean and dry.

- Apply a small amount of acid-proof grease to the lower end of the battery clamp.
- Only use commercial detergent to clean the corroded parts of the battery.

#### Warning

- Keep the surface of the battery terminal and the post clean, otherwise the service life of your battery will be shortened.
- Do not use detergents containing flammable substances, which will corrode the battery case.
- The dust in the battery cell will cause the battery to discharge automatically and be easily damaged.

## **Noise Control System**

## **Noise Emissions Warranty**

ZM Trucks warrants to the first person who purchases this Cab Chassis for purposes other than resale and to each subsequent purchaser that this Cab Chassis as manufactured by ZM Trucks, was designed, built and equipped to conform at the time it left ZM Truck's control with all applicable U.S. EPA Noise Control Regulations.

The warranty period begins on the date the Cab Chassis is first placed into service.

If there is a noise emissions failure in breach of the foregoing warranty prior to the end of the specified warranty period, the relevant part or component shall be repaired or replaced by ZM Trucks under warranty, provided that there has been no abuse, neglect or improper maintenance or usage of your Cab Chassis. Any such part or

component repaired or replaced under warranty shall be warranted for the remainder of the period prior to the first scheduled replacement point for the part or component.

### **Tampering With Noise Control System Prohibited**

Federal law prohibits the following acts or the causing thereof:

- The removal or rendering inoperative by any person, other than
  for purposes of maintenance, repair, or replacement, of any device
  or element of design incorporated into any new vehicle for the
  purpose of noise control prior to its sale or delivery to the ultimate
  purchaser or while it is in use; or
- the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

Among those acts presumed to constitute tampering are the acts listed below

## **External Sound System**

Modification of the vehicle's external sound system.

#### Insulation

Removal or modification of the noise shields of any under cab insulation.

#### **Fan and Drive**

Removal of the fan clutch or rendering the clutch inoperative.

Removal of the fan shroud.

## **Maintenance Schedule**

The maintenance interval depends on the odometer or time interval, whichever comes first, as shown in the daily maintenance schedule. The next maintenance interval should be equal to the last maintenance interval.

Please refer to the maintenance schedule for the maintenance intervals of each component. In order to maintain safe and economical driving, it is recommended to follow the recommended items in this chapter and go to the ZM Trucks authorized dealership for regular inspection and maintenance.

The symbol "\*" indicates that more frequent maintenance is required under adverse driving conditions. Please refer to the Regular Maintenance Schedule under Adverse Conditions.

Please conduct item inspection according to the following table and repair or replace as needed:

- I: Inspect, clean, and make corrections or replacements as appropriate.
- A: Adjust.
- R: Replace.
- T: Tighten to the specified torque.
- L: Lubricate.

## Rear Axle

	Maintenance Interval	ო	4	5	9	7	œ	<u>၈</u>	10	£	12/24
Item	Month/1,000 mi (1,600 km)	ო	rc	10	15	20	25	30	35	40	45
Rear axle gear oil (long-acting oil)	Free at first maintenance, and replace every 75,000 mi (120,000 km) or 24 months thereafter										R

### Front Axle

	Maintenance Interval	ო	4	S	9	7	œ	စ	10	£	12/24
Item	Month/1,000 mi (1,600 km)	ო	c)	10	15	20	25	30	35	40	45
*Steering kingpin and tie rod ball joint	Lubricate every 3 months	L			L			L			L
Steering function	Check every 6,000 mi (9,700 km) or 3 months	ı			ı			ı			I

### ROUTINE MAINTENANCE

Item	Maintenance Interval	ო	4	5	9	7	œ	6	10	7	12/24
item	Month/1,000 mi (1,600 km)	ო	ည	10	15	20	25	30	35	40	45
Steering gear oil	Replace every 12,000 - 30,000 mi (19,000 - 48,000 km) or 12 months				R						R
Clearance between steering knuckle and front axle	Check every 6,000 mi (9,700 km) or 6 months				I						I
Looseness and damage of steering gear	Check every 6 months				Т						Т
Steering wheel play	Check at the first 2,000 mi (3,200 km) and thereafter every 60,000 mi (97,000 km) or 3 months	I			I			I			ı
Wheel alignment	Check every 25,000 mi (40,000 km) or 24 months										I

### Main Brake

llana	Maintenance Interval	ო	4	5	9	7	ω	6	10	£	12/24
Item	Month/1,000 mi (1,600 km)	ო	ည	10	15	20	25	30	35	40	45
Brake fluid	Replace every 25,000 mi (40,000 km) or 12 months										R
*Wear of disc brake lining and brake disc	Check every 6,000 mi (9,700 km) or 3 months	I			ı			ı			ı
Travel and free travel of brake pedal	Check every 6,000 mi (9,700 km) or 3 months	I			ı			ı			ı
*Wear of friction plate and brake disc of parking brake	Check every 3,000 mi (4,800 km) or 3 months	I			I			I			I
Looseness and damage at the connection between pipes and hoses	Check every 6,000 mi (9,700 km) or 3 months	I			I			I			I

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## Suspension Gear

	Maintenance Interval	ო	4	c)	9	7	œ	စ	1	£	12/24
Item	Month/1,000 mi (1,600 km)	ო	က	10	15	20	25	30	35	40	45
Looseness and damage of mounting parts	Check every 6,000 mi (9,700 km) or 3 months	I			I			I			I
Oil leakage of shock absorber	Check every 6,000 mi (9,700 km) or 6 months				I						I
Looseness of shock absorber mounting parts	Check every 6,000 mi (9,700 km) or 6 months				I						I
Leaf spring U-bolt	Check every 3,000 mi (4,800 km) or 3 months	ı			ı			ı			ı

## Wheel

	Maintenance Interval	ო	4	ro	9	7	œ	တ	10	£	12/24
Item	Month/1,000 mi (1,600 km)	ო	ည	10	15	20	25	30	35	40	45
Wheel nut	Tighten every 3,000 mi (4,800 km) or 3 months	Т			Т			Т			Т
Damage of wheel disc	Lubricate every 12 months										L
Hub bearing grease	Replace every 6,000 mi (9,700 km) or 6 months				R						R
Pressure and damage of tire	Check every 3,000 mi (4,800 km) or 3 months	I			ı			ı			I

### **Electrical Device**

	Maintenance Interval	ო	4	5	ဖ	7	œ	6	10	Έ	12/24
Item	Month/1,000 mi (1,600 km)	ო	ro	10	15	20	25	30	35	40	45
Specific gravity of bat- tery electrolyte	Check every 6 months				I						I

	Maintenance Interval	ო	4	r,	ဖ	7	œ	<b>o</b>	10	Έ	12/24
Item	Month/1,000 mi (1,600 km)	ო	ro	9	15	20	25	30	35	40	45
A/C filter screen	Check every 6 months				I						I

#### Other

	Maintenance Interval	ო	4	5	9	7	œ	6	10	<b>±</b>	12/24
Item	Month/1,000 mi (1,600 km)	ю	S.	10	15	20	25	30	35	40	45
Window, horn, wind- shield, wiper and washer	Check every 6 months				I						I
Bolts and nuts on frame and vehicle body	Check every 24 months										I

## **Regular Maintenance Schedule under Adverse Conditions**

### Adverse Conditions may include:

Frequent short distance round trips

- Driving on rough roads
- Driving on dusty roads
- Driving on roads with severe cold or salt content

		Conditions								
Item	Cycle	Α	В	С	D	A-D				
Looseness and damage of steering system	Check every 1,800 mi (2,900 km)		•							
Rear axle gear oil (long-acting oil)	Replace every 62,000 mi (100,000 km)		•							
Wear of brake friction lining	Check every 3, 000 mi (4,800 km)	•	•	•						
Wear of disc brake lining and brake disc	Check every 3,000 mi (4,800 km)	•	•	•						

## **Selection Of Lubricant Grease**

In order to achieve the best performance and longest service life of your vehicle it is important to select the appropriate lubricating grease in accordance to the relevant chart

The lubrication cycle on the regular maintenance schedule and new car warranty period are based on the recommended lubricating grease. The recommended lubricating grease is shown in the table below and should be used as a guide for selecting the appropriate grade and brand

#### ROUTINE MAINTENANCE

Item	Recommend
Rear axle	Rear axle long-acting gear oil: HD-R03
Steering gear	Steering gear lubricating oil: GL-5: 75W/90
Front axle kingpin, front axle bearing	HP-R grease
Universal joint, door lock, window regulator	2# lithium-based grease
Battery terminal	Industrial Vaseline
Windshield washer	At room temperature: use water with a hardness of less than 205g/100kg At low temperature (-4±5°F): Use a 50% volume methanol aqueous solution
ZY front and rear left spring pins	2# lithium-based grease

## **Vehicle Outline Size**

Length (mm)	Width (mm)	Height (mm)	Wheelbase (mm)	Front Tread (mm)	Rear Tread (mm)		
8332	2310	2950	4500	1773	1804		

# **Dynamic Economical Parameters**

Item		Parameter
	Motor Model	TZ230XS003
Drive Motor	Manufacturer	Bosch Automotive System (Wuxi) Co., LTD
Drive Motor	Rated Power/Torque/Speed	110/230/4567
	Maximum Power/Torque/Speed	200/450/12000

lte.	em	Parameter
	Battery Type	Lithium Iron Phosphate Battery
	Rated Capacity (Ah)	245.5
	Nominal Voltage (V)	537.6
	Working Voltage Range (V)	336-621.6
High Voltage Battery	Heating	Heating Film
	Cooling Method	Liquid Cooling/Thermal Management 2.0
	Battery Pack Module	2 B23 In Series
	Rated Storage Energy (kWh)	131,98
	Maximum Charging Current (A)	245,5
Materia Occident	Rated/Peak Output Current (A)	220/420
Motor Control	Rated/Peak Capacity (kVA)	140/240
Driving	Driving Range	
Maximum Limi	Maximum Limit Speed (km/h)	
Maximum (	Gradeability	20%

# **Torque Specifications**

#### Wheel

Assembly Position	Bolt Size	Dynamic Tightening Torque (N.m)	Dynamic Specified Torque (N.m)	Static Tightening Torque (N.m)
Hub Nut	M20x1.5	390-470	430	350-600
Tidb Nut	M18x1.5	300-335	335	250-390
Spare Tire Lifter Bolt	/	60-80	70	60-80

# **Wheel Alignment Parameters**

Kingpin Inclination	Kingpin Extraversion	Wheel Camber	Toe-in (mm)
7.5°±1°	3.8°±1°	1°±0.5°	1-3

#### NOTE:

The technical parameters in the table are only the front wheel alignment parameters of the vehicle.

Tire Specifica- tion	Туре	Rim Specifica- tions	Load Capacity (kg/tire) Single Tire	Load Capacity (kg/tire) Dual Tire	Total Vehicle and Cargo Mass	Inflation Pres- sure (kPa)	Wheel Position
225/70R19.5	14PR	19.5x6.75	1800	1700	<10.5T	760±30	All-position tire

# **Wheel Dynamic Balancing**

Tire Specification	Туре	Rim Specifications	Initial Maximum Unbal- ance (g.cm)	Dynamic Imbalance of Assembly (g.cm)
225/70R19.5	14PR	19.5x7.75	≤6500 (260g)	≤1500 (60g)

#### NOTE:

Tire pressure needs to be adjusted in a timely manner according to the vehicle's load capacity.

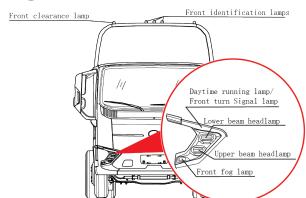
## **Wheel Alignment Parameters**

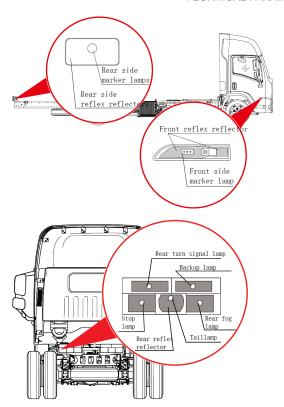
Kingpin Inclination	Kingpin Extraversion	Wheel Camber	Toe-in (mm)
7.5°±1°	3.8°±1°	1°±0.5°	1-3

#### NOTE:

The technical parameters in the table are only the front wheel alignment parameters of the vehicle.

# **Light Power Meter**





### **126** TECHNICAL PARAMETERS

### **Technical Parameters**

Function	Power (W)	Model	Quantity
Lower Beam	29	LED	2
Upper Beam	50	LED	2
Daytime Running Light	13.5	LED	2
Front Turn Signal Light	17.2	LED	2
Front Fog Light	7.5	LED	2
Front Clearance Light	0.4	LED	2
Front Identification Light	0.4	LED	3
Ceiling Light	1.2	LED	1
Front Side Market Light	0.6	LED	2
Rear Side Market Light	0.4	LED	2
Rear Turn Signal Light	21	Halogen	2
Rear Position Light	5	Halogen	2

Function	Power (W)	Model	Quantity
Stop Light	21	Halogen	2
Rear Fog Light	21	Halogen	2
Reversing Light	21	Halogen	2

## **Mass Parameters Axle Load Drive Mode**

Curb Weight (kg)	Maximum Total Mass (kg)	Front and Rear Axle Load (Full Load)	Drive Mode
3450	8850	1900/1550	Integrated motor rear axle drive

# **Fluid Specification And Capacity**

Name	Model	Filling Amount
Coolant	40# Glycol type	4 gal (14.8L)
A/C Refrigerant	R-1234yf	1 lb (500g)
Steering Gear Oil	GL-5: 75W/90	0.2 gal (0.9L)

#### TECHNICAL PARAMETERS

Name	Model	Filling Amount
Brake Fluid	DOT4	0.3 gal (1.15L)
Windshield Washer Fluid	-40°F (-40°C)	0.6 gal (2.5L)

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