VANTA KIRIN K4

OWNER'S MANUAL

4-PASSENGER GOLF CART



Electric transportation vehicle

Read this manual carefully before operating your vehicle.

VANTA Mobility

www.vantamobility.com | Customer Care: XXXXXXX

Welcome to VANTA

Thank you for trusting the VANTA brand and choosing the Kirin K4. This Owner's Manual is your primary reference for safe and confident operation — keep it with the vehicle at all times.

Before you drive your vehicle, please read this entire manual. It contains important information regarding vehicle operation, entertainment, storage, and more, which will help you make the most of the features your vehicle offers. This manual also includes safety information that will help you operate the vehicle more safely.

Any updates made after the editorial deadline of this manual can be found in the appendix of the printed Owner's Manual for your vehicle, or from your authorized VANTA dealer. Additional information is also available in supplementary brochures at your dealer's showroom.

i NOTE

VANTA assumes no responsibility for errors contained in this manual, nor for incidental or consequential damages arising from its use. Contents are subject to change as a result of product improvement at any time and without prior notice.

How to use this manual

Throughout this manual, safety information is highlighted using the safety notices described on the following page. Please read and understand every DANGER, WARNING, and CAUTION notice before operating, servicing, or charging your vehicle.

Safety alert symbols

Please pay close attention to all notices, cautions, warnings, and danger information throughout this manual. Vehicle maintenance requires mechanical skill and due regard for potentially hazardous conditions — improper maintenance or repair may cause damage to the vehicle or render it unsafe.

⚠ DANGER

Indicates a hazardous situation that, if not avoided, WILL result in death or serious injury.

⚠ WARNING

Indicates a hazardous situation that, if not avoided, COULD result in death or serious injury.

⚠ CAUTION

Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

i NOTE

Provides important supplementary information for correct operation, but is not related to personal injury.

Immediately replace any missing, damaged, or illegible safety decal to prevent possible property damage, personal injury, or death. Replacement decals are available from your VANTA dealer or distributor. Familiarize yourself with the laws and regulations governing vehicle operation in your region — safe vehicles play a critical role in preventing crashes and reducing the likelihood of serious injury.

Contents

Welcome to VANTA 2
Safety alert symbols 3
01 Vehicle identification 6
02 Vehicle overview 7
2.1 Front and side views 7
2.2 Rear view and dashboard 8
03 Power on and power off 9
3.1 Remote key 9
3.2 Start button and NFC key 10
04 Drive and operate 11
4.1 Driving safety 11
4.2 Before every drive 12
4.3 Pedals and column shifter 13
4.4 Drive, Reverse and Park 14
4.5 Neutral and ECO 15
4.6 EM brake release switch 16
4.7 Manual EM brake release 17
4.8 Steering wheel and seats 18
4.9 Armrest and brake fluid 19
05 Function switch panel 20
06 Exterior lighting 21
6.1 Exterior light controls 21
6.2 Automatic lighting 22
07 Lithium battery and charging 23
7.1 Lithium battery specifications 23
7.2 Battery interface and safety 24
7.3 Battery smartphone app 25
7.4 Charging precautions 26
7.5 Charging the vehicle 27
7.6 Charging fault guide 28
08 Vehicle power supply 29
8.1 Vehicle power outlets 29

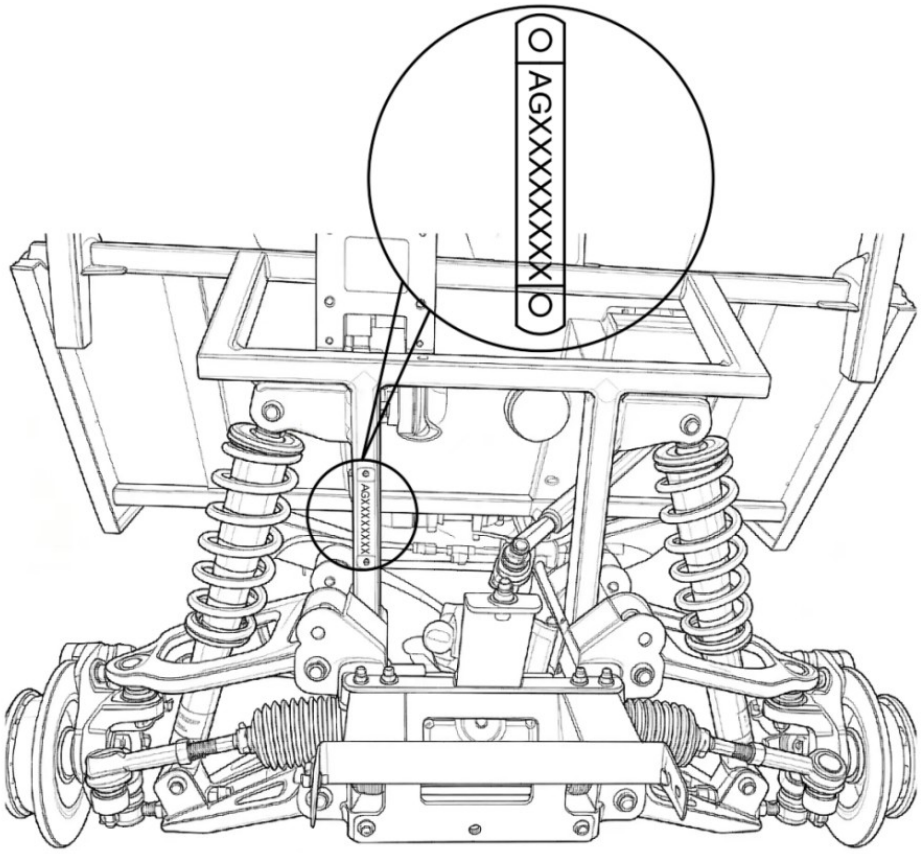
Contents continued

09 Entertainment system 30
9.1 Instrument and media screens 30
9.2 Main menu and radio 31
9.3 Equalizer and Bluetooth pairing 32
9.4 Bluetooth music and contacts 33
9.5 Phone calls 34
9.6 USB music 35
9.7 USB video and photos 36
9.8 Phone Link 37
9.9 Wireless phone connection 38
9.10 Ambient lighting 39
9.11 Media settings 40
9.12 Screen care and safe use 41
9.13 Soundbar specifications 42
9.14 Soundbar controls 43
9.15 Audio sources and steering controls 44
9.16 Pair the steering wheel 45
10 Wheels and tires 46
11 Vehicle maintenance 47
11.1 Maintenance precautions 47
11.2 Daily maintenance schedule 48
11.3 Periodic and special maintenance 49
11.4 Tire and brake inspection 50
11.5 Battery maintenance 51
11.6 Charger blink codes 52
12 Vehicle specifications 53
12.1 Technical specifications 53
12.2 Vehicle equipment 54
12.3 Vehicle dimensions 55
13 Safety information 56
13.1 Safety information and labels 56
13.2 Battery and brake warning labels 57
13.3 Occupant warning labels 58
14 Maintenance log 59
15 Notes 60

01 Vehicle identification

Vehicle serial number

All vehicles are equipped with a serial number plate on the front of the chassis frame, and come with corresponding documentation. This serial number is used by VANTA to identify and track each vehicle sold. Upon sale, the chassis serial number acts as proof of warranty and insurance coverage — customers are strongly advised to record and retain their vehicle serial number.



serial number plate location — front chassis frame

Your vehicle record

Vehicle serial number

_____

Purchase date

_____

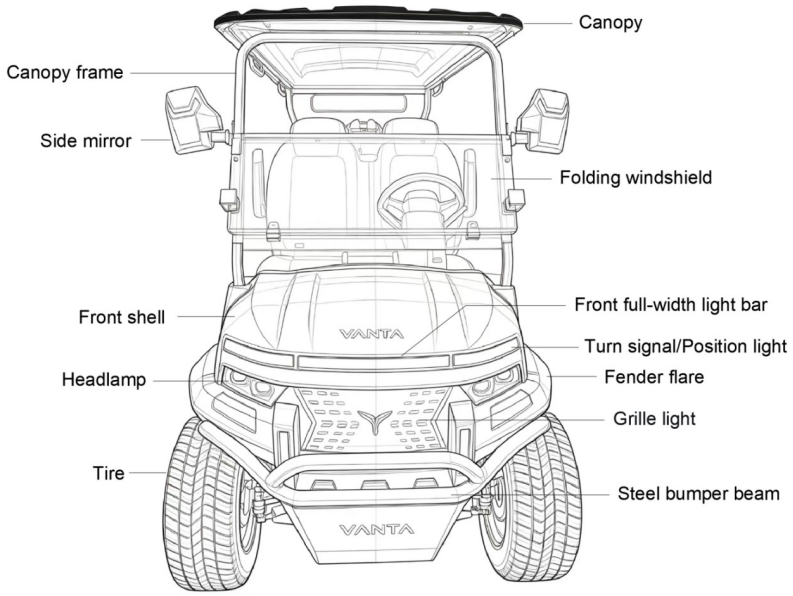
Authorized dealer

_____

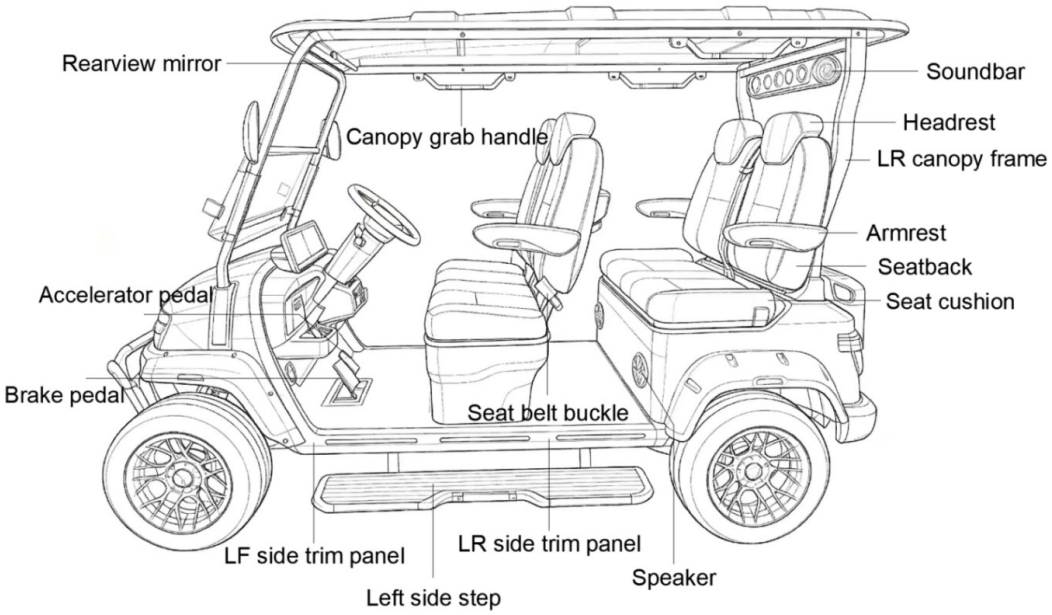
02 Vehicle overview

2.1 Front and side views

Front view



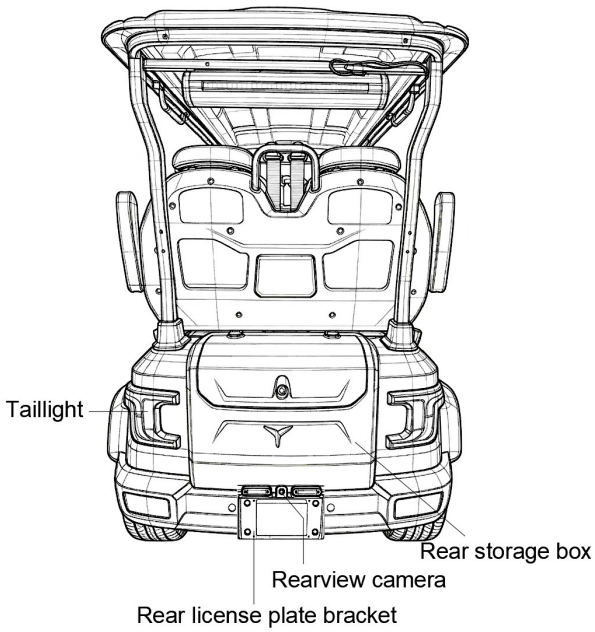
Side view



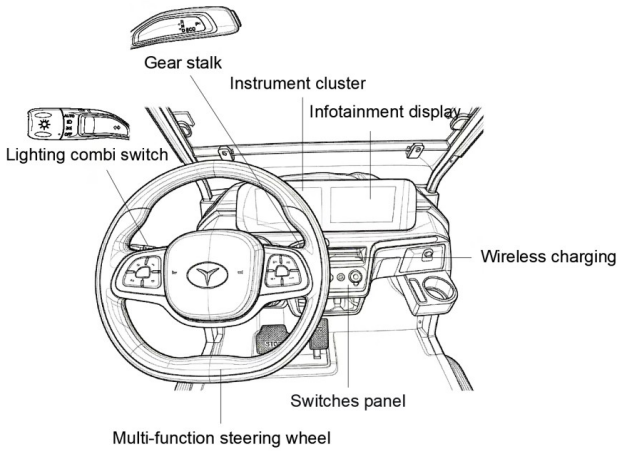
02 / VEHICLE OVERVIEW

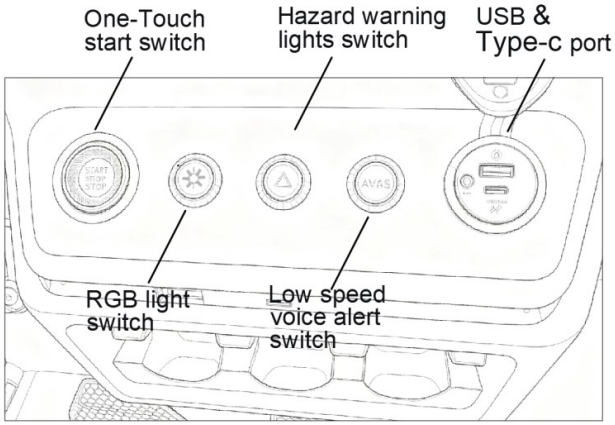
2.2 Rear view and dashboard

Rear view



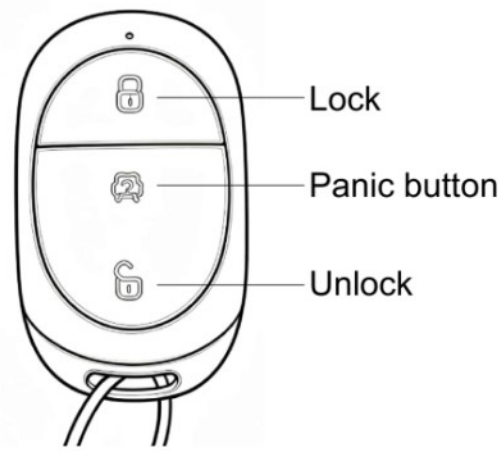
Dashboard





03 Power on and power off

3.1 Remote key



Lock and power off

After the vehicle has been shut down, press the lock button once to lock the vehicle and arm the security system — the hazard warning lights will flash one time. When the vehicle is powered on, press and hold the button for 2 seconds to turn off the vehicle.

Vehicle locator

When the vehicle is powered off, press the button to activate the vehicle locator function; the hazard warning lights will flash four times.

Unlock and power on

Use the smart remote key to unlock the vehicle before entering. Once seated, press the start-up button to turn it on. Pressing and holding this button for 2 seconds will also power the vehicle on.

NOTE

The smart key's maximum effective operating range is approximately 20–30 meters (65–100 ft) from the vehicle.

If no power-on action occurs within 2 minutes of pressing the unlock button, the vehicle automatically relocks.

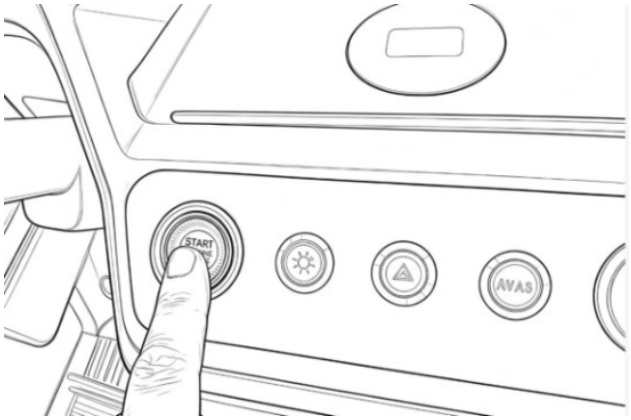
The smart key is an electronic device — avoid exposing it to impact, disassembly, or environments with high temperature, high humidity, or severe vibration.

3.2 Start button and NFC key

Start button

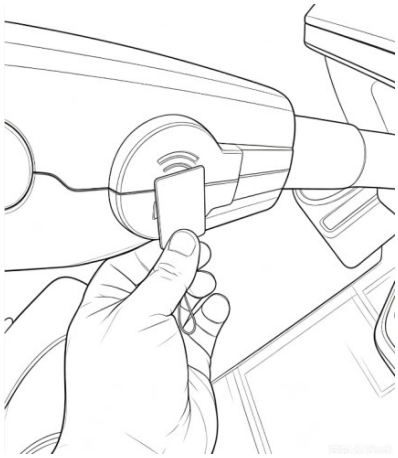
Prior to pressing the Start-up Button to turn on the vehicle, first press the unlock button on the remote key, then press the switch. Once energized, the green backlight illuminates.

Press and hold the Start-up Button for 2–3 seconds to shut down the vehicle. The vehicle will automatically lock after 2 minutes.



NFC key fob

Bring the NFC card into proximity with the NFC sensing area and the vehicle will be turned on.



Vehicle alarm and disarming

If the Start-up Button is pressed without first unlocking the vehicle with the key, the vehicle enters warning mode and the hazard warning lights flash repeatedly. Press the unlock button to disarm the security warning.

04 Drive and operate

4.1 Driving safety

⚠ WARNING

Operating the vehicle with passengers not fully seated can cause serious injury or death. Do not start the vehicle until all passengers are properly seated.

Falling objects can result in property damage, serious injury, or death. Do not allow passengers to hold items on their laps, seat children on laps, or ride in a towed trailer.

⚠ CAUTION

Park only on stable ground, away from turning ramps. Sudden starting, stopping, and turning may cause property damage and serious injury — avoid abrupt maneuvers.

Failure to properly maintain the vehicle may reduce performance and cause fire, property damage, serious injury, or death. If an issue is found during inspection, do not drive the vehicle until repairs are complete.

Ensure all passengers have fastened their seat belts before operation. Keep your entire body inside the vehicle at all times.

i NOTE

High-speed sharp turns may cause the vehicle to overturn or passengers to fall — take turns slowly.

Turn off the vehicle before leaving it or performing maintenance.

The vehicle shall only be operated from the driver's seat, and only within designated areas, by personnel holding a valid driver's license, in strict compliance with applicable local and state laws.

Exercise extreme caution near high-speed traffic, in congested areas, or on unpaved surfaces.

This vehicle is not specially equipped for persons with disabilities and is not designed to meet child safety seat compatibility requirements — children who require a child safety seat must not ride in this vehicle. Comply with all national and local laws relating to child safety.

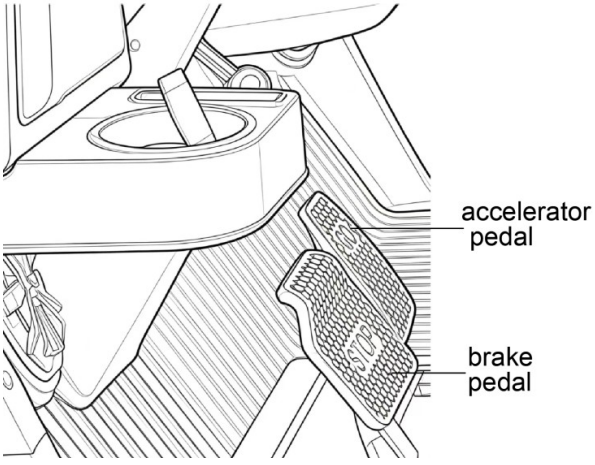
Before starting the vehicle, ensure all occupants have observed the warnings and operating instructions. To prevent falling from the vehicle, passengers must remain seated and keep a firm grip on the handrails or grab handles at all times while the vehicle is in motion. The driver must keep both hands on the steering wheel while the vehicle is in motion.

4.2 Before every drive

Safety and performance inspection

Perform the following checks before every drive:

Inspection Item	Procedure
Battery	Ensure the battery is sufficiently charged. Complete a full charge cycle before use. Inspect cables for a firm connection and confirm all nuts are tight — loose nuts can cause sparking.
Brake pedal	When depressed, the pedal should move freely and feel firm, and return smoothly without hesitation upon release.
Accelerator pedal	When depressed and released, the pedal should return freely and smoothly to its normal position.
Tires	Check tire pressure (highway tires 32 PSI; off-road tires 35 PSI). Inspect for embedded objects, cracks, or other damage.
Steering	Pull the steering wheel up and down to check tightness; turn left and right to confirm no excessive play or abnormal noise.
Backup buzzer	With the selector in "R" (reverse), confirm the backup buzzer sounds a distinct, steady warning.
Lights	Confirm signal lights, brake lights, and turn signals are all in proper working condition.



4.3 Pedals and column shifter

Accelerator pedal

The accelerator pedal increases and sustains vehicle speed. Depress it slowly and evenly to energize the motor and propel the vehicle forward. Releasing the pedal reduces vehicle speed.

⚠ WARNING

Do not step on the accelerator pedal abruptly — sudden or accidental acceleration can cause the vehicle to move unexpectedly and cause severe injury or death.

Brake pedal

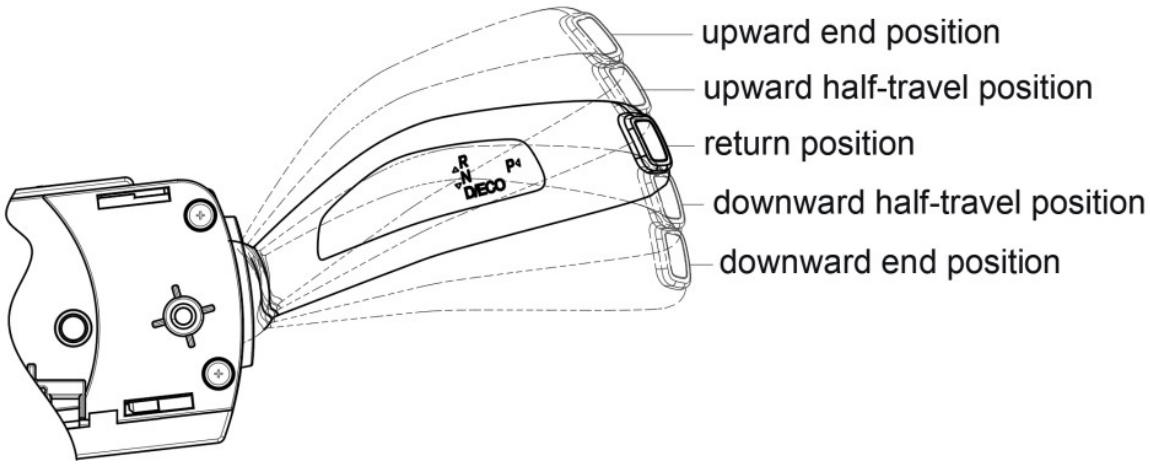
The brake pedal reduces vehicle speed or brings it to a complete stop. This vehicle also uses the brake signal for gear shifting.

Starting the vehicle

The vehicle has three power-on methods — the start-up button, the NFC card, and the remote key — as introduced in the previous chapter. The vehicle may be powered on using any of these methods.

Column shifter operation

The Column Shifter features four key detent positions: upward half-travel, upward end, downward half-travel, and downward end. The shifter provides access to five gears — D, ECO, N, R, and P. Brake pedal application is required for gear changes, with the exception of shifting between D and ECO.

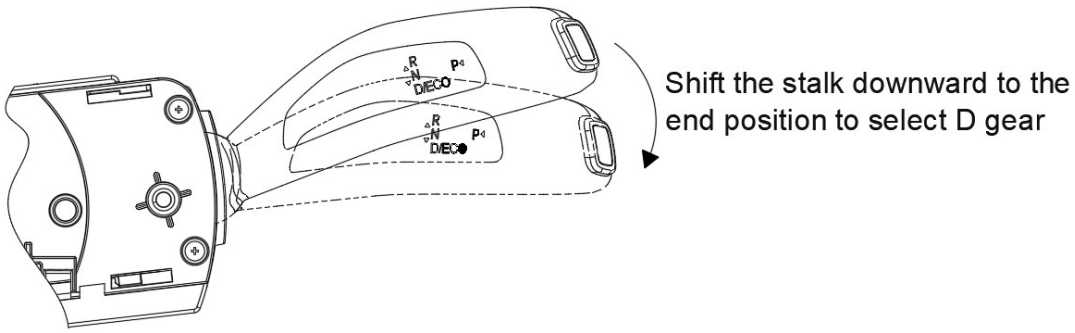


04 / DRIVE AND OPERATE

4.4 Drive, Reverse and Park

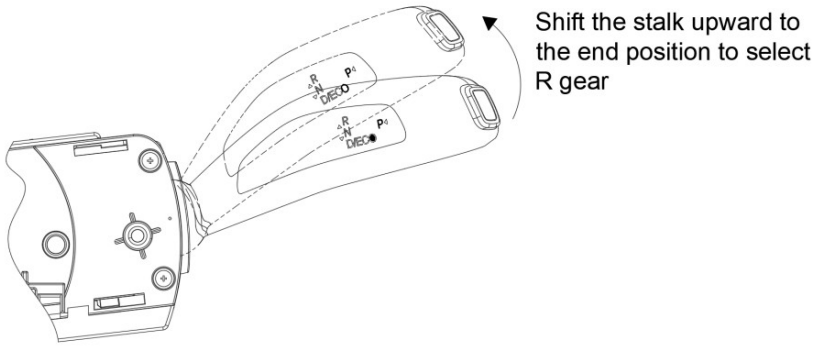
Shift into D

With the vehicle stationary and the selector in N or R, firmly depress the brake pedal and shift the stalk downward to the end position to select D. The "D" indicator illuminates on the instrument cluster upon successful engagement.



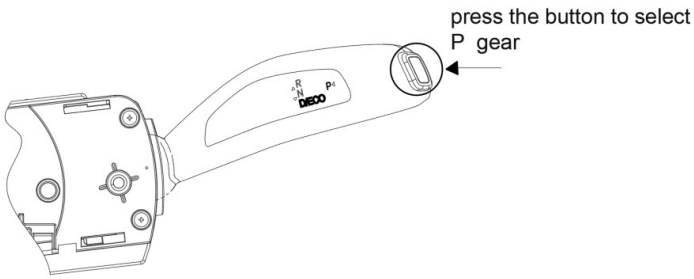
Shift into R

With the vehicle stationary and the selector in N, D, or ECO, firmly depress the brake pedal and shift the stalk upward to the end position to select R. The "R" indicator illuminates upon successful engagement.



Shift into P

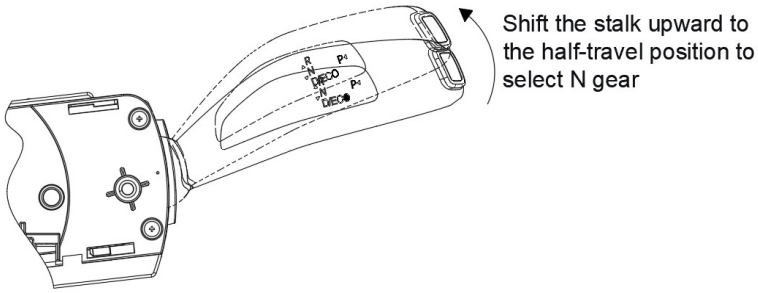
From D, ECO, or R: depress the brake pedal and press the button on the stalk to select P. This position functions essentially the same as Neutral.



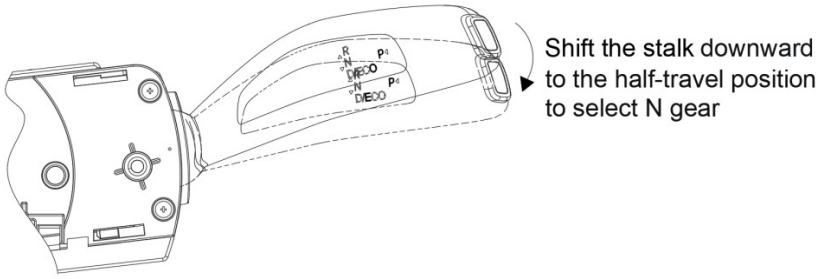
4.5 Neutral and ECO

Shift into N

From D or ECO: firmly depress the brake pedal and shift the stalk upward to the half-travel position to select N.

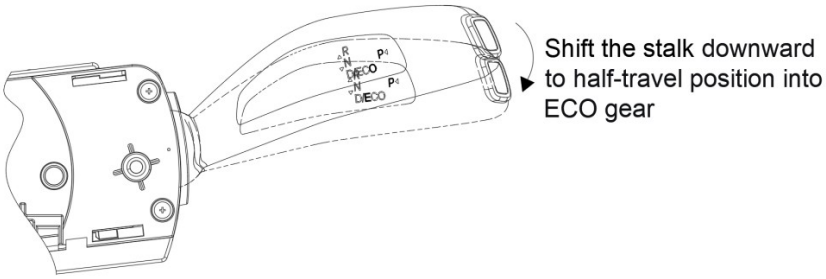


From R: firmly depress the brake pedal and shift the stalk downward to the half-travel position to select N.



Shift into ECO

ECO can only be engaged from D gear. With the selector in D, shift the stalk downward to the half-travel position to select ECO — the brake pedal is not required for this operation. Shifting back from ECO to D uses the same motion and likewise does not require the brake pedal.



i NOTE

Maximum achievable speed is 19 mph in D gear, 15 mph in ECO mode, and 7 mph in R gear.

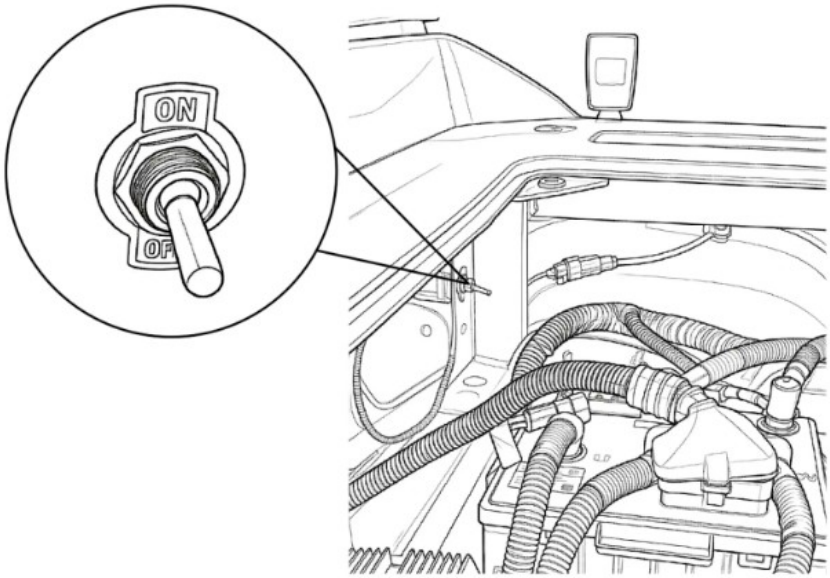
04 / DRIVE AND OPERATE

4.6 EM brake release switch

If the vehicle becomes inoperable due to low-battery protection or another system fault, the electromagnetic (EM) brake must be released prior to towing. If the vehicle can be powered on, release the brake via the toggle switch; if it cannot be powered on, release the brake manually using the metal handle.

Toggle switch

The toggle switch is located beneath the rear seat cushion, at the left-rear corner. During normal operation, the switch remains in the OFF position. When towing is necessary, turn the switch ON; return it to OFF once towing is complete to re-enable the parking function.



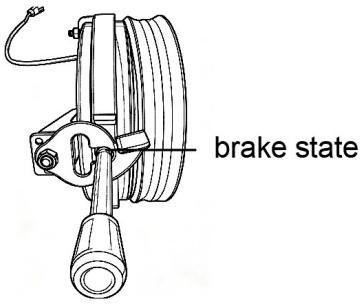
⚠ CAUTION

If the towed vehicle must remain on the ground, keep towing speed below 25 km/h (15 mph).

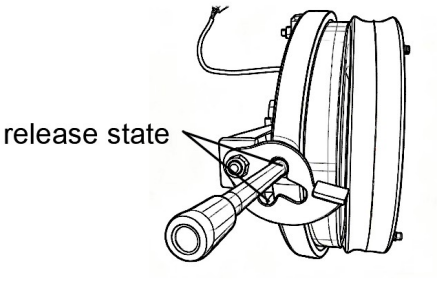
4.7 Manual EM brake release

Metal release handle

The electromagnetic brake unit includes a metal handle that releases or engages the brake. Moving this handle switches between the two operational states.



When the handle is placed in this position, the EM-brake is braked.



When the handle is placed in these two positions, the EM-brake is released.

⚠ CAUTION

The EM-brake release is intended for emergency pushing or fault towing only — not for normal driving.

Releasing the brake allows the vehicle to roll or be pushed freely. Improper operation may cause serious injury or property damage.

Before releasing the brake, always chock the wheels to prevent sudden movement, especially on slopes or uneven ground.

The vehicle will move immediately upon brake release — ensure the area is clear of people and obstacles.

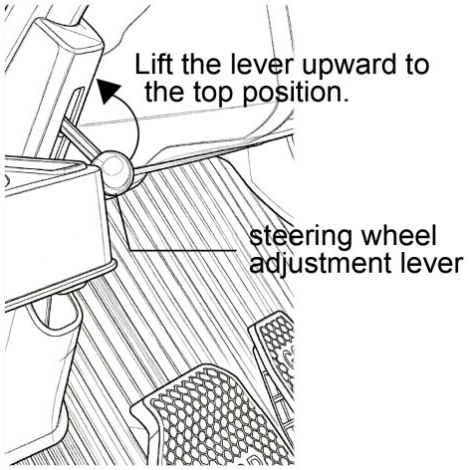
Reset the EM brake to the braking state when towing is no longer required.

04 / DRIVE AND OPERATE

4.8 Steering wheel and seats

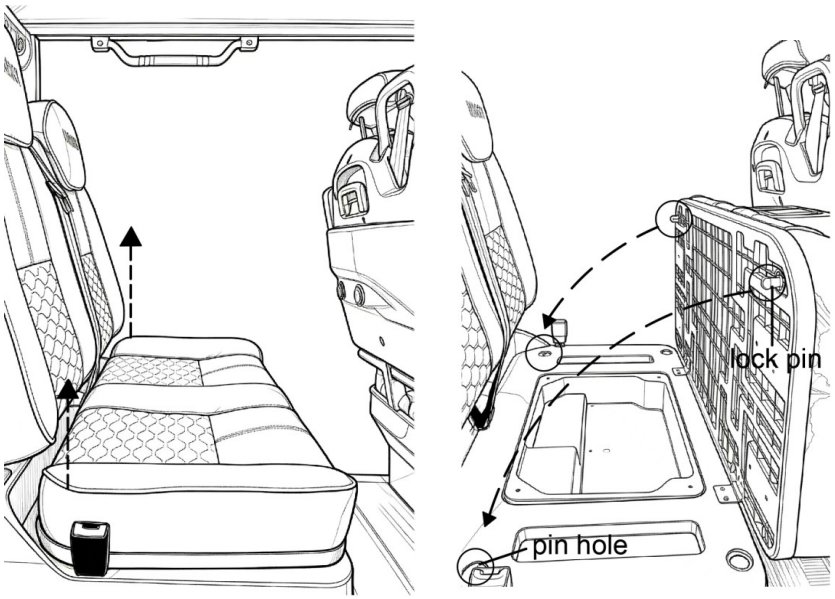
Steering wheel adjustment

The steering wheel height is adjustable. Pull the release lever upward (located beneath the steering column), then telescope the wheel forward or rearward until the optimal driving position is reached.



Flip up the seat

Both the front and rear seats are flip-up type. Lift the rear edge of the seat cushion to flip it up. The rear cushion has locking pins at both the left-rear and right-rear positions — use both hands to lift it.

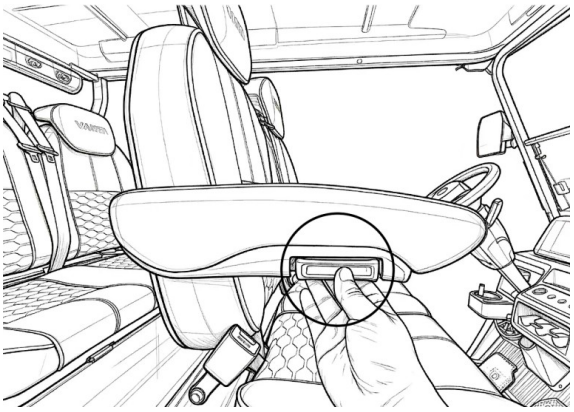


04 / DRIVE AND OPERATE

4.9 Armrest and brake fluid

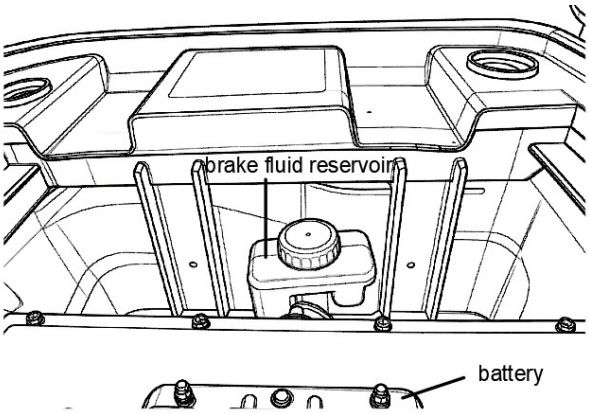
Seat armrest height

The seat armrest height is adjustable by rotating the roller located underneath.



Adding brake fluid

The brake fluid reservoir is located beneath the front seat and is accessed by lifting the seat. When the fluid level is low, add fluid up to the marked line.



⚠ WARNING

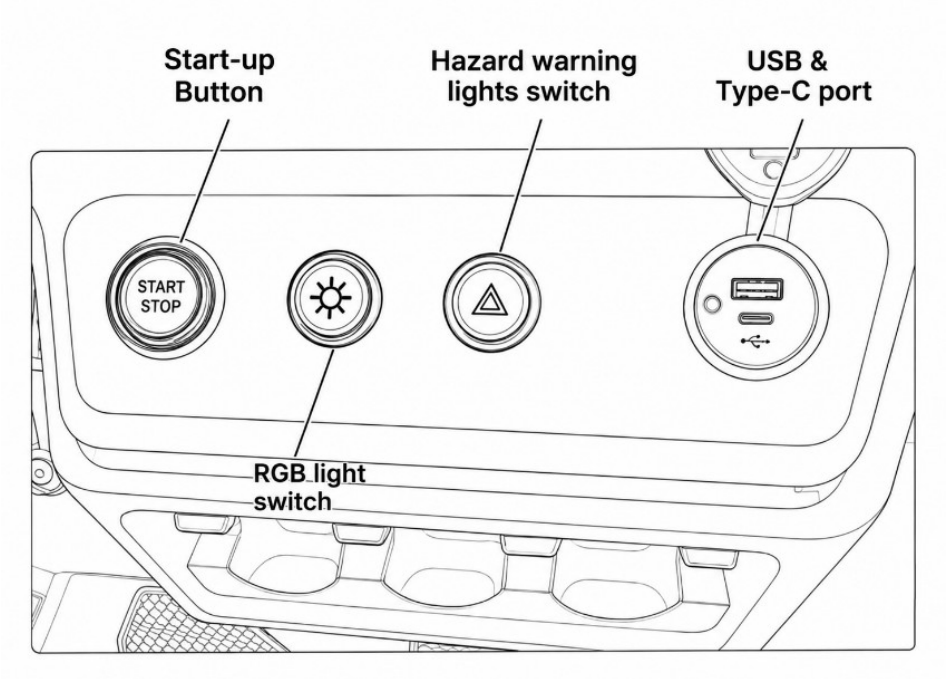
When the brake pedal feels soft or pedal travel becomes longer, check the brake fluid level and inspect for leaks.

⚠ CAUTION

Use only DOT 4 brake fluid supplied by the manufacturer — do not mix with other fluid types. Tighten the cap securely after refilling.

Brake fluid is corrosive. Handle with care; if it contacts skin, wipe off immediately and rinse with water. If it drips onto the vehicle, wipe it off and clean the area with a damp cloth.

05 Function switch panel



Start button

Controls vehicle power cycling. A short press turns power on; a long press (2–3 seconds) turns power off.

RGB light switch

Self-locking switch — press once to turn on, press again to turn off.

Hazard warning light switch

Self-locking switch — press once to turn on, press again to turn off.

USB and Type-C ports

USB port: for multimedia display connection and USB flash drive file reading only — not for charging.

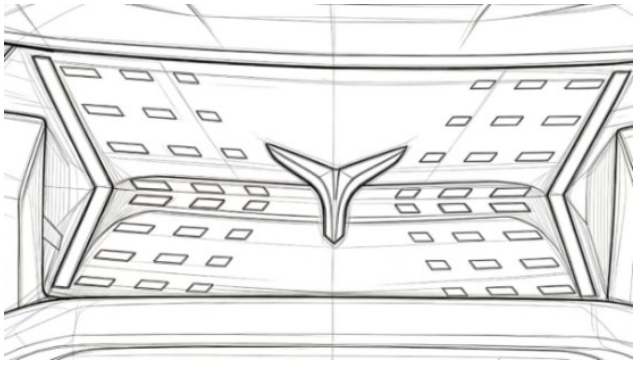
Type-C port: supports device charging.

06 Exterior lighting

6.1 Exterior light controls

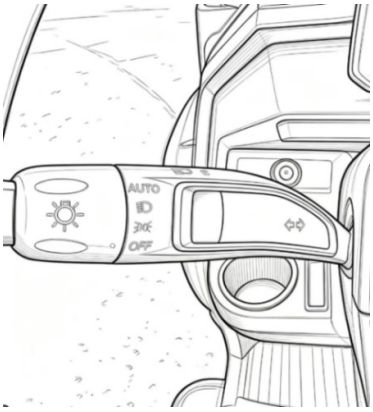
Grille light

The grille light activates automatically upon vehicle power-on.



Position light

When the combination switch is rotated to this position, the position lights, front through-type light, step lights, and tail lights are activated.



Low beam and high beam

Rotating the combination switch to this position activates the low beams. With low beam active, pressing the lighting stalk downward activates the high beams.

Turn signals

Pushing the lighting stalk to the left activates the left turn signal; pushing it to the right activates the right turn signal.

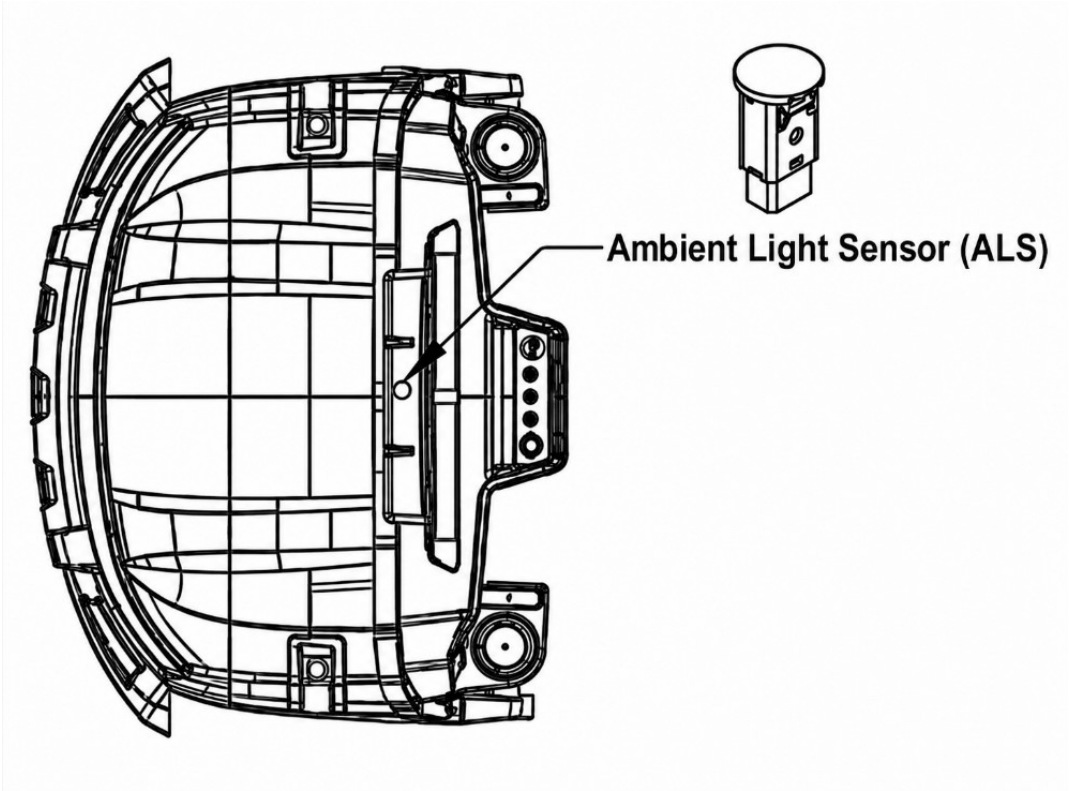
Brake light and backup light

The brake light activates when the brake pedal is pressed. The backup lamp activates when reverse gear is engaged.

6.2 Automatic lighting

Automatic headlights

When the vehicle is powered on and the light control stalk is set to AUTO, the headlights automatically turn on when the light sensor detects dim ambient conditions, and turn off when light levels become bright again.



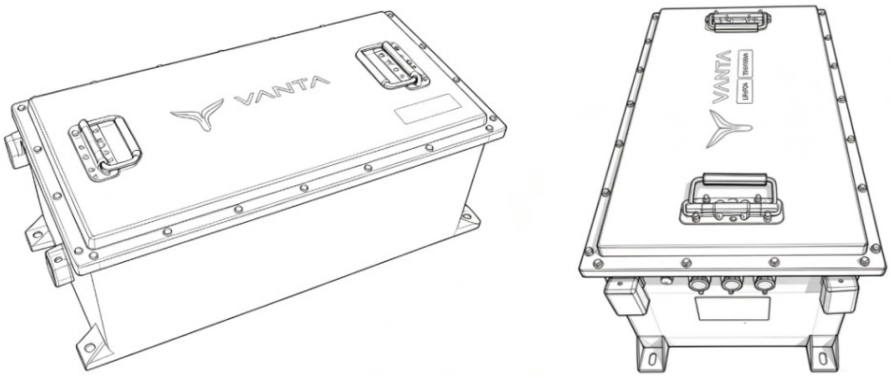
Follow me home headlights

If the vehicle is powered off while the headlight control is active, the lights remain on for a 15-second delay before automatically switching off.

07 Lithium battery and charging

7.1 Lithium battery specifications

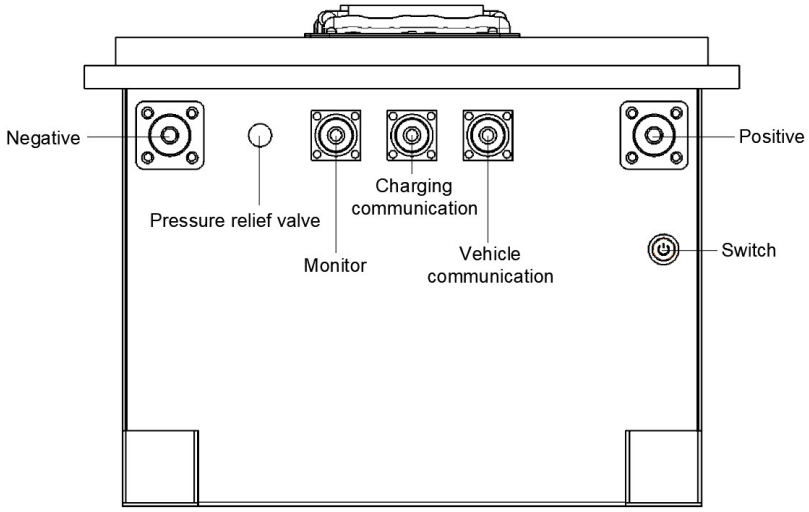
LFP (Lithium Iron Phosphate) batteries are widely used in mainstream applications and offer excellent safety performance, ultra-long cycle life, a significant cost advantage, and excellent environmental friendliness.



Item	Specification
Lithium Battery Type	LiFePO4 (LFP)
Series-Parallel Connection	1P23S
Nominal Voltage	73.6 V
Battery Capacity	105 Ah
Battery Energy	7.728 kWh
Product Dimensions	345 × 690 × 246.5 mm
Weight	68 ± 2 kg
Waterproof Rating	IP67
Charging Temperature	-10 to 60 °C
Discharging Temperature	-20 to 60 °C
Storage Temperature	-20 to 45 °C

07 / LITHIUM BATTERY AND CHARGING

7.2 Battery interface and safety



⚠ WARNING

Improper handling of batteries and electrical components can result in serious injury or death.

Do not remove the battery pack cover, remove batteries or battery cables, or use the battery pack without the control module installed. All battery and electrical service must be performed by an authorized service facility.

Use only insulated tools in or around the battery pack area. Do not intentionally short the power terminals (B+, B-) with a metallic object.

Do not cut, tear, or remove the seal tape. Do not disassemble or modify the battery pack, control module, or electrical circuit.

⚠ DANGER

Keep all flammable materials, open flames, and sparks away from the batteries. Do not leave the battery pack near a fire or heat source, or throw it into a fire.

Do not apply heat to the battery pack or BMS with a soldering iron. Do not place the battery pack in a microwave, dryer, or high-pressure container.

Do not operate the vehicle or charge the battery at temperatures above 140 °F (60 °C). Do not immerse the battery pack in water or pressure-wash it.

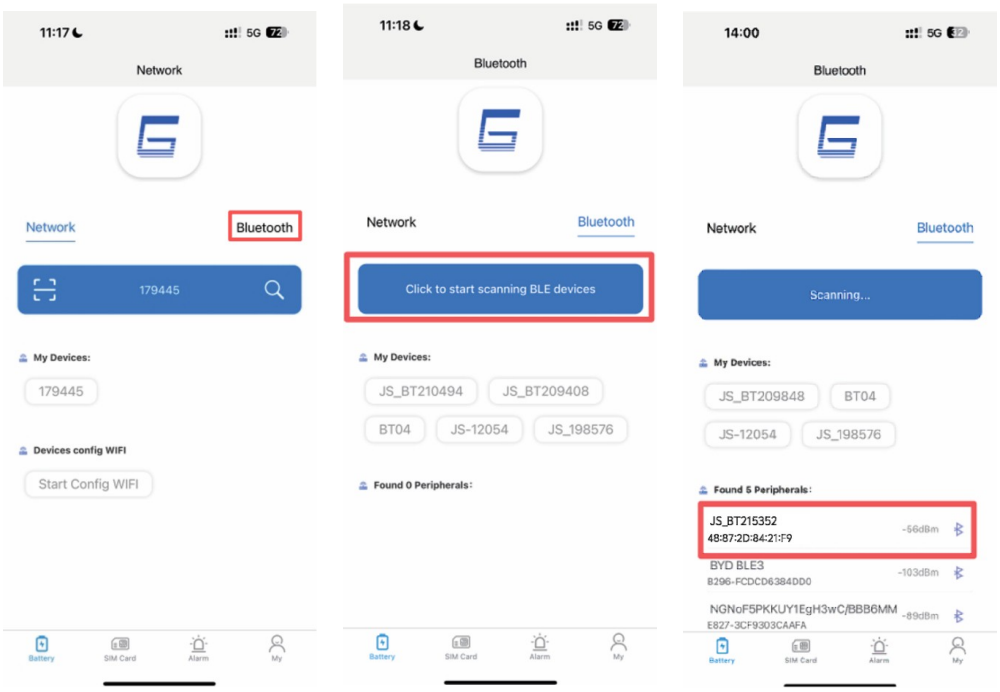
Do not puncture the battery pack, strike it with a hammer or heavy weight, step or stand on it, or drop it onto hard surfaces.

If the battery pack terminals are contaminated or dirty, clean them with a dry cloth before use. Keep the battery pack and control module away from static electricity.

07 / LITHIUM BATTERY AND CHARGING

7.3 Battery smartphone app

1. Search "Topspeed Battery Assistant" in the iOS App Store or Google Play. Download and install the app.
2. Remember your Bluetooth code: for batteries with built-in Bluetooth, the code follows the BMS ID and starts with "BT".
3. Turn on Bluetooth on your phone, open the battery app, and tap "Bluetooth".
4. Tap "Click to start scanning BLE devices".
5. Locate the BT number matching the QR code, and tap to select it.
6. Once connected, go to the Home, Cells, or Params page to view battery information.



Bluetooth connection screens

7.4 Charging precautions

To keep your vehicle in good operating condition, charge it promptly when the battery level is low.

⚠ WARNING

Improper connection of the AC power cord may result in fire or electric shock. Do not use an adapter to connect the cord to a two-prong outlet.

Do not charge the vehicle in areas with flammable gases or liquids — charge in a well-ventilated area only.

Minors are prohibited from using the charging equipment or approaching the charging area during operation.

Do not charge outdoors in heavy rain or severe weather — charging may fail, and vehicle or equipment damage may occur.

⚠ CAUTION

Before charging, check the charging plug and vehicle port for damage, blackening, burn marks, dirt, or debris. If anything looks abnormal or dirty, do not charge — clean or repair first.

Do not wash the vehicle with a high-pressure water gun during charging, especially near the charging port.

If an unusual odor or smoke is detected during charging, stop immediately, power off the vehicle, and contact your dealer.

Battery charge and storage

i NOTE

Keeping the battery charge level between 20% and 80% is the most important habit for extending its lifespan.

Don't let the battery drop below 10–20% before charging — plug it in when the remaining charge is between 20% and 30%.

Unplug the charger promptly after a full charge; avoid keeping the battery at 100% for extended periods.

For storage longer than a month, maintain the battery at roughly 50% charge, and inspect biweekly — recharge to 50% if the level has dropped noticeably.

07 / LITHIUM BATTERY AND CHARGING

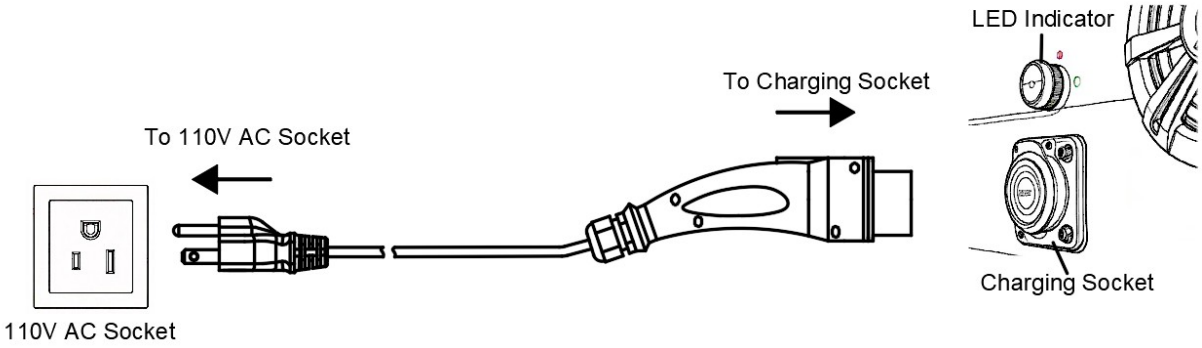
7.5 Charging the vehicle

Charging operation

Plug the three-prong charging plug into a 110 V AC outlet, then insert the charging gun into the vehicle's charging socket. Charging will begin automatically.

NOTE

When charging, the vehicle must be either powered off or placed in Park (P) gear.



Charging status indicator

The charger body includes an LED indicator that displays charging status; an external indicator is also brought out from the charger.

LED indicator	Status
● Flashing red light	Charging
● Steady green light	Fully charged

07 / LITHIUM BATTERY AND CHARGING

7.6 Charging fault guide

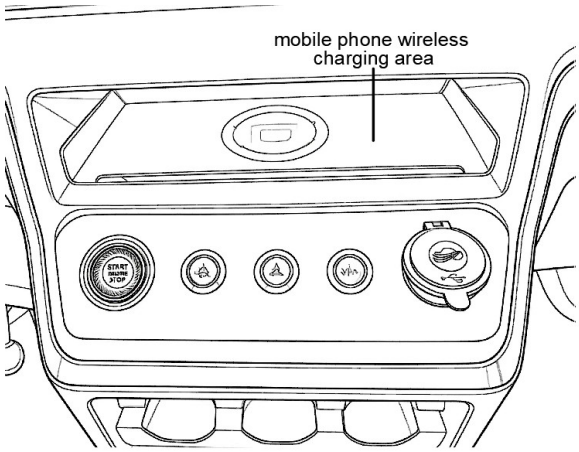
Condition	Cause	Solution
No load	Check charger output. Battery may be powered off, damaged, or at too low a voltage.	Inspect battery power and connections.
Overvoltage / overcurrent	Charger protection triggered.	If the fault persists after reboot, return to factory for service.
External temperature fault	Ambient temperature is high, ventilation is poor, or the temperature sensor is misplaced.	Check ambient conditions and sensor placement.
Internal temperature fault	Ambient temperature too high or ventilation insufficient.	Improve ventilation; allow the unit to cool.
Output undervoltage	Charger fault.	Return the unit to factory and replace with a new one.
AC input abnormality	Incorrect AC voltage or faulty plug connection.	Check the AC voltage supply and the plug.
Relay fault	Internal relay malfunction.	If the fault persists after reboot, return to factory for service.
Communication fault	CAN communication issue.	Check the CAN communication cables and connectors.

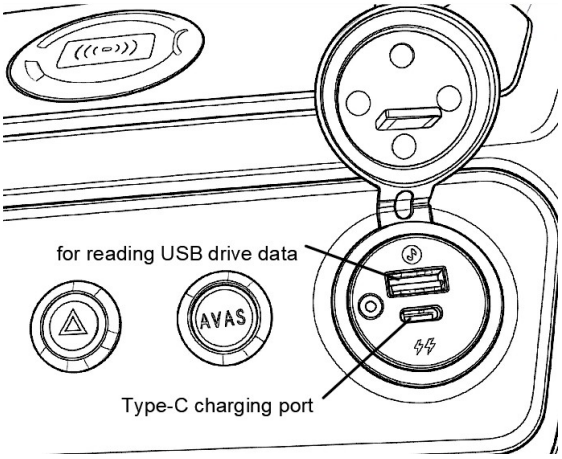
08 Vehicle power supply

8.1 Vehicle power outlets

Instrument panel

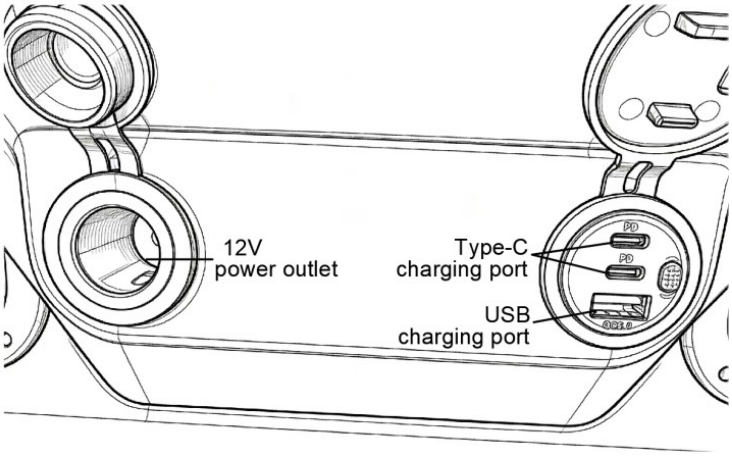
Two power outlets are provided for the front passenger to charge mobile devices: a wireless charger (approx. 15 W output) located in the slot at the center of the instrument panel, and a Type-C charging port on the switch panel. The USB port above the Type-C port is for reading data from a USB flash drive only, and cannot be used for charging.





Front seatback

Two power outlets are provided on the front seatback: one 12 V power outlet (max. 150 W) and one USB charging port.



⚠ WARNING

The 12 V power outlet has a maximum power rating of 150 W.

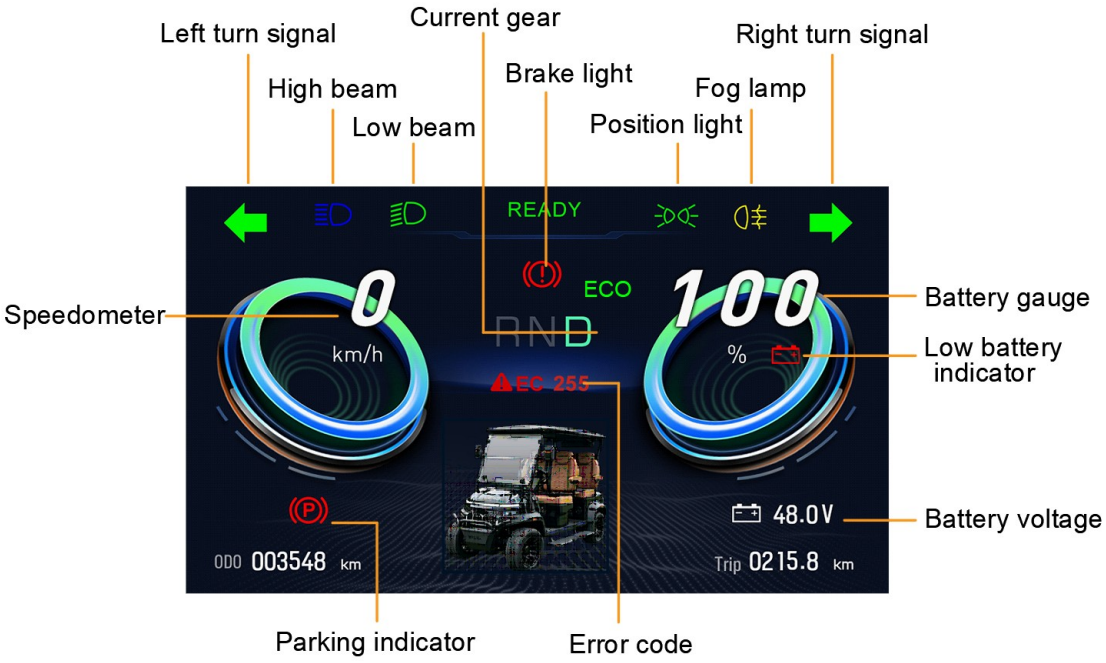
Outlets are live when the vehicle is ON — do not touch metal parts with hands or metal objects.

09 Entertainment system

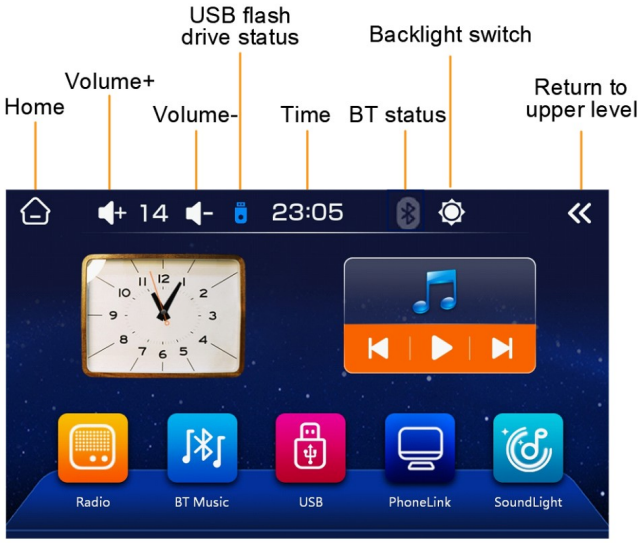
9.1 Instrument and media screens

Instrument panel

The instrument panel screen monitors critical vehicle operating parameters in real time, including vehicle speed, battery level, gear position, light status, and fault information. Illuminated indicators represent the current status of each function.



Multimedia home screen



09 / ENTERTAINMENT SYSTEM

9.2 Main menu and radio

Control	Function
Volume	Displays the volume level from 0 to 40.
USB icon	Shows that a USB flash drive is connected.
Bluetooth icon	Opens Bluetooth functions.
Backlight	Tap to switch between full and reduced brightness.
Back arrow	Returns to the previous screen.

Radio

Tap the Radio icon to open the radio screen. Tap Scan to search for available stations, then select a station from the results.



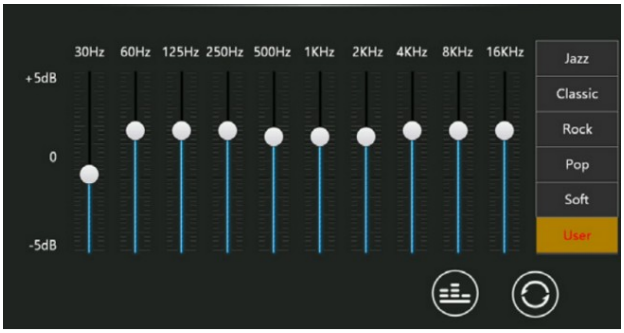
Control	Function
Left and right arrows	Search forward or backward through radio stations.
DX / LOC	Select distant or local station reception.
EQ	Adjust the frequency settings to your preference.

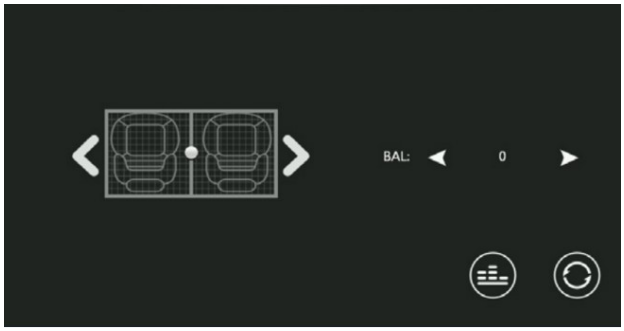
09 / ENTERTAINMENT SYSTEM

9.3 Equalizer and Bluetooth pairing

EQ setup

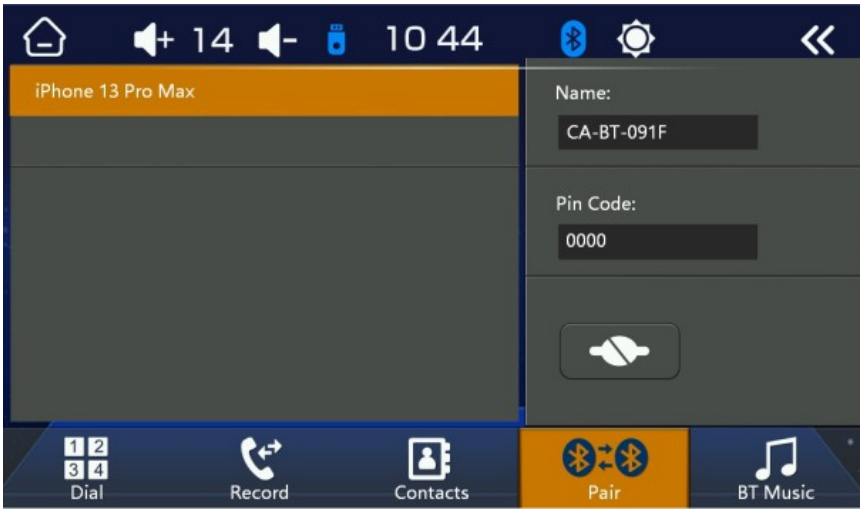
Tap the EQ icon to open sound settings. Choose a sound preset or adjust the frequency sliders. Tap the channel control to adjust left and right sound balance.





Pairing your phone

Tap the Bluetooth icon, then select Pair. Enable Bluetooth on your phone and connect to the name shown on the media screen. Once connected, your phone's Bluetooth name appears in the highlighted area.



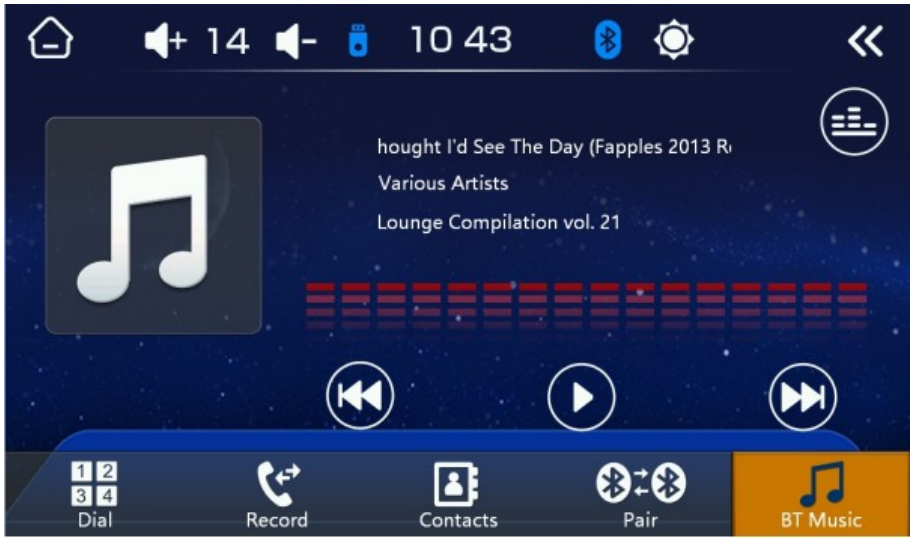
Tap the connection icon to disconnect Bluetooth.

09 / ENTERTAINMENT SYSTEM

9.4 Bluetooth music and contacts

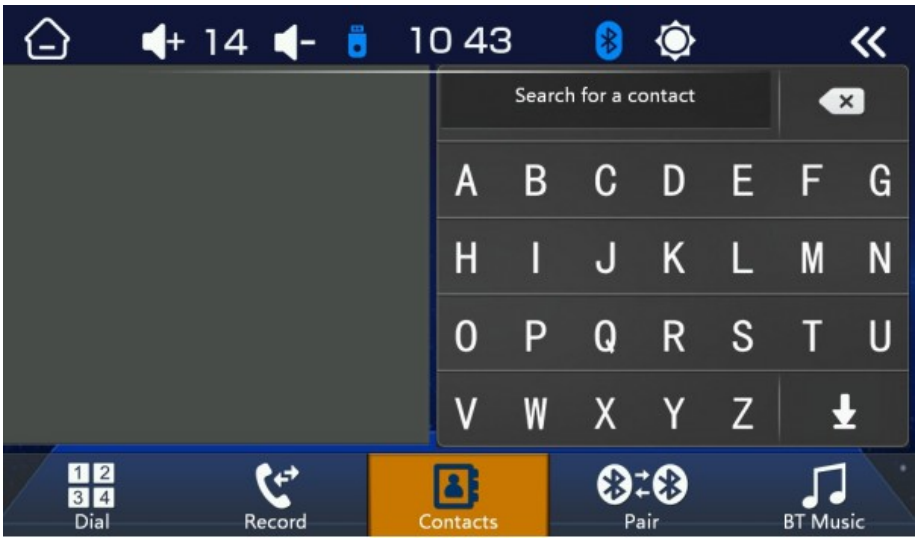
Bluetooth music

Tap BT Music to see playback status, the song title, and the artist. Use Play / Pause, Previous, and Next to control playback.



Contacts

Tap Contacts to open the address book. Tap the download icon to download contacts from your phone.

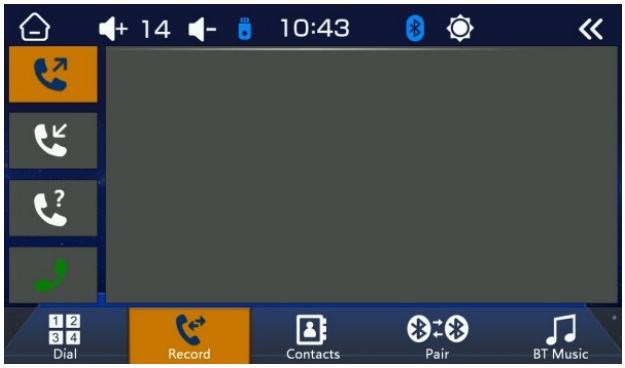


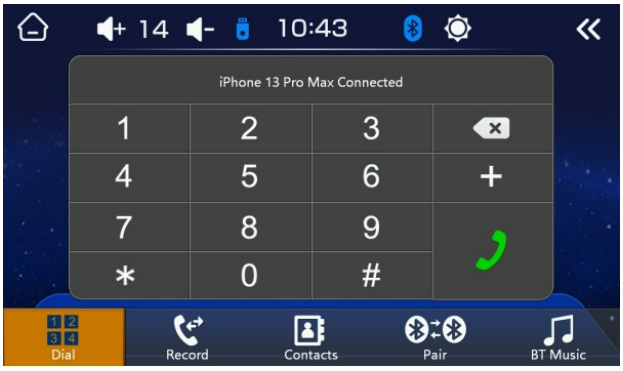
09 / ENTERTAINMENT SYSTEM

9.5 Phone calls

Call history and dialing

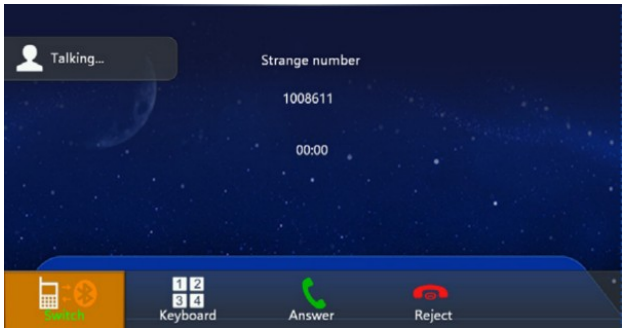
Tap Record to view call history. Tap Dial to open the keypad. Use the delete key to erase a digit, and tap the green phone icon to place a call. The "+" symbol represents the international dialing prefix.

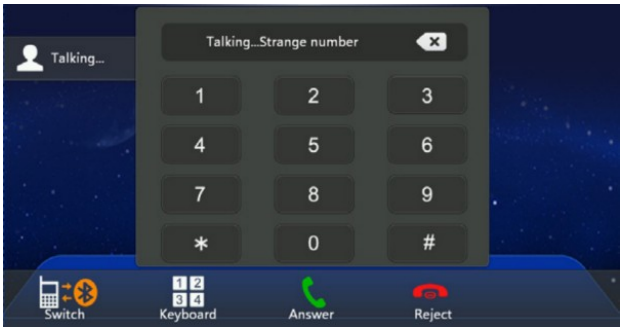




During a call

Tap Switch to transfer audio between Bluetooth and your phone. Tap Keyboard when you need to enter numbers during the call. Use Answer or Reject as shown on screen.

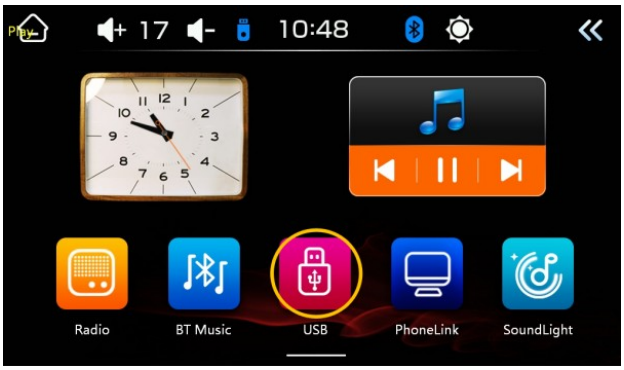




09 / ENTERTAINMENT SYSTEM

9.6 USB music

Insert a USB flash drive. A blue USB icon appears at the top of the screen. Open USB, then tap the music icon to browse music files. Swipe or tap to select a song.





Playback

The first song plays by default. Select another song from the list to open the playback screen. The screen shows the artist, song, and album information.



The progress bar displays the song duration, elapsed playback time, and current playback position. Use the on-screen controls for previous track, pause, next track, repeat, playback order, and the file list.

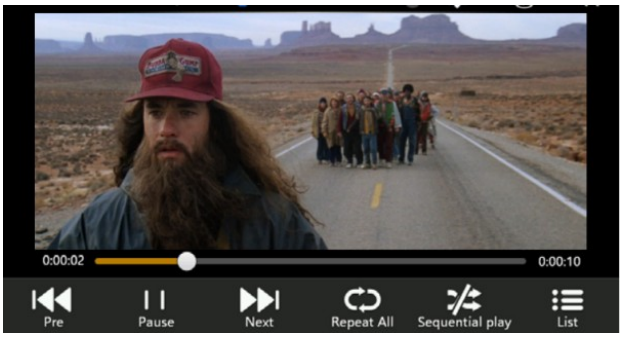
09 / ENTERTAINMENT SYSTEM

9.7 USB video and photos

Video

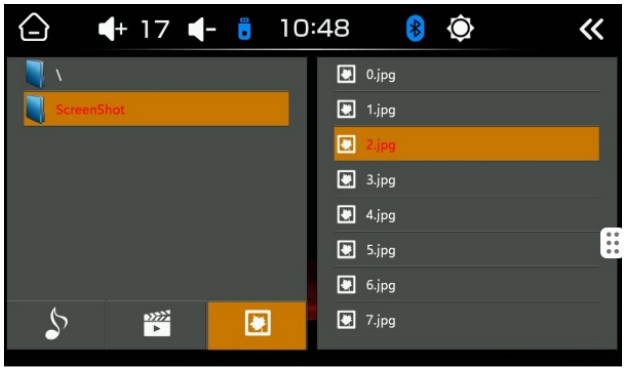
Tap the video icon to browse videos stored on the USB drive. Swipe or tap to select a video, then use the playback controls on screen.





Photos

Tap the photo icon to browse images. Select an image in the right-hand list to open it. The viewer provides zoom, rotate, previous, play, next, and return controls.

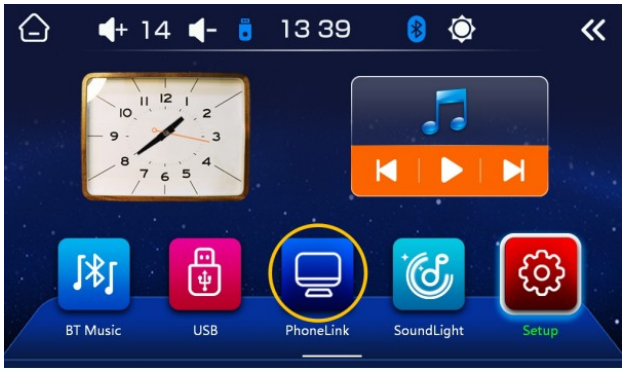




09 / ENTERTAINMENT SYSTEM

9.8 Phone Link

Tap PhoneLink to open the connection screen. Both iPhone and Android phones support wired, mirror, and wireless connection options.





Wired connection for iPhone

1. Tap the CarPlay icon.
2. Connect your phone to the media screen with a USB cable.
3. When the connection is established, the CarPlay interface appears automatically.

Mirror connection for iPhone

Select Mirror and follow the same USB connection steps.

Android phones

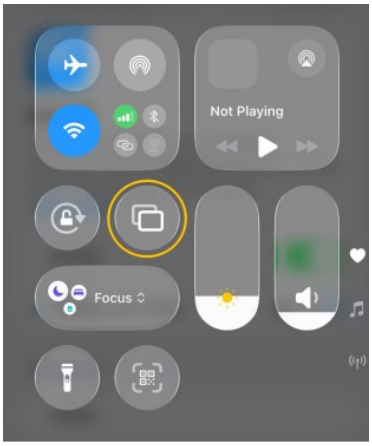
The connection process is similar to that for iPhone. Follow the on-screen prompts.

09 / ENTERTAINMENT SYSTEM

9.9 Wireless phone connection

1. In PhoneLink, tap the Wireless icon for iPhone.
2. Turn on Wi-Fi on your phone and find the media screen's network, carplay_wifi_xxxx.
3. Connect to the network and enter the password 12345678.
4. Open Control Center on your phone and tap Screen Mirroring.
5. Select Car to complete the connection. Your phone's screen appears on the media display.







9.10 Ambient lighting

Tap Ambient light to open the lighting controls. Use the on/off control to activate or deactivate the function.



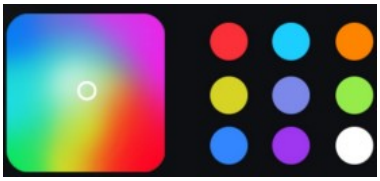
Pairing

Tap Pairing, then turn the ambient lights off and on. A green flash confirms successful pairing with the media screen. Once all devices are paired, tap Confirm to exit pairing mode.

Lighting effects

Choose one of three preset flashing modes: Breathing Mode, Musical Rhythm, or Driving Mode. Use the brightness slider and color palette to adjust the lighting.

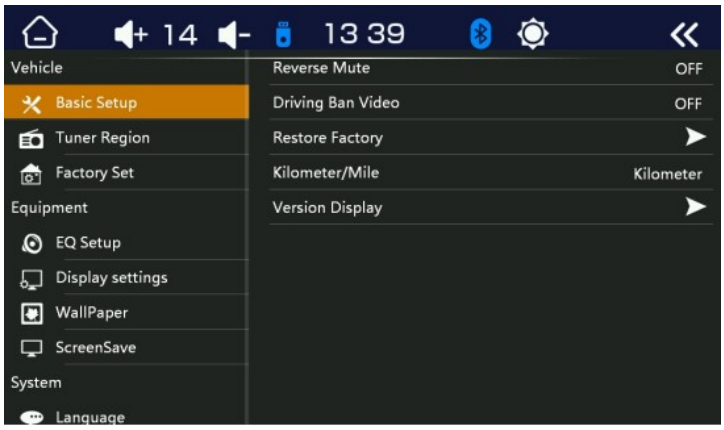




09 / ENTERTAINMENT SYSTEM

9.11 Media settings

Tap Setup to open the settings screen.



Setting	Function
Basic Setup	Tap Kilometer/Mile to switch between metric and imperial units.
Tuner Region	Select the radio reception region.
Factory Set	Engineering menu for reserved functions; requires a password.
EQ Setup	Adjust the balance of high and low audio frequencies.
Display Settings	Adjust screen display performance.
Wallpaper	Choose a preset background image.
Remote Control Binding	Bind or unbind the steering wheel remote control.
Language	Select the display language.
Clock	Set the time and choose 12-hour or 24-hour format.
Version	View software versions for OS, APP, MCU, and BT.

09 / ENTERTAINMENT SYSTEM

9.12 Screen care and safe use

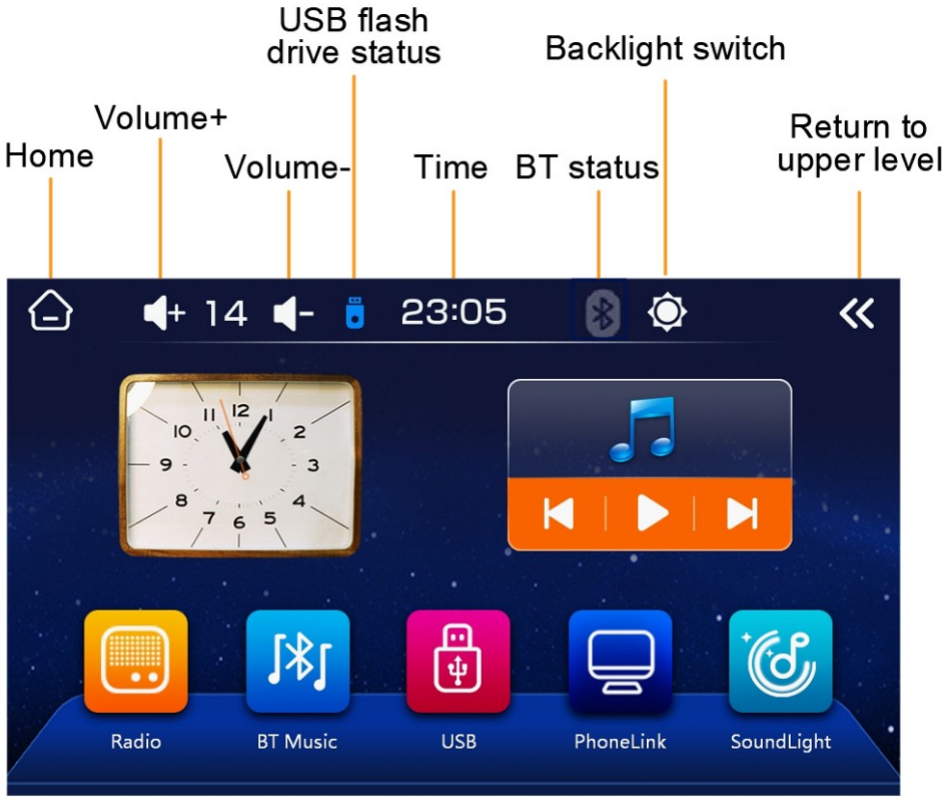
⚠ CAUTION

While driving, avoid frequent operation of settings and multimedia functions.

The reversing camera is only an aid. Continue to observe your surroundings when reversing.

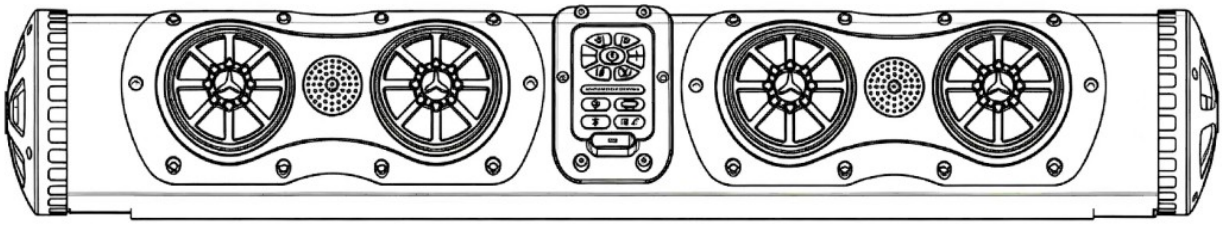
The instrument is rated IP66, but direct high-pressure water jets or prolonged submersion may allow water to enter.

Clean the screen with a soft cloth and mild detergent. Do not use alcohol or strong solvents on the screen coating unless the manufacturer explicitly permits them.



09 / ENTERTAINMENT SYSTEM

9.13 Soundbar specifications



NOTE

Proper car washing and rain will not affect performance, but extended exposure to outdoor humidity is not recommended.

This product uses 12 V DC power — do not connect directly to household or commercial power, which will cause damage.

Do not modify this product without authorization. Install in a well-ventilated, heat-dissipating environment away from heat sources.

Electrical characteristics

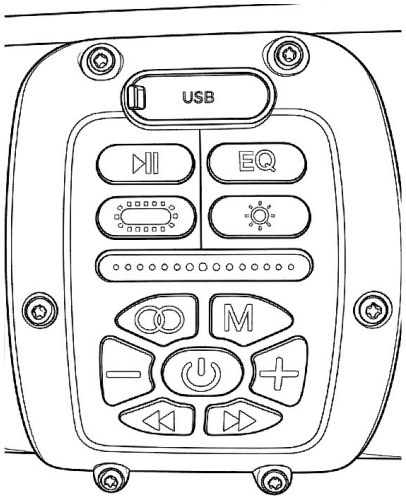
Item	Specification
Power Input	12 V DC / 10 A
Amplifier Power Output	PBTL 50 W × 2 (woofer); BTL 40 W × 2 (midrange and tweeter)
Standby Current	≤ 30 mA
Operating Current	≤ 10 A (typical ≈ 5 A)
Operating Temperature	-30 to 70 °C

Functional features

Item	Specification
Audio Input	Bluetooth / Line-in / USB / Wireless Audio 2.0 (Stereo)
EQ Mode	Ordinary / Outdoor / Vocal
Ambient Lighting	8 modes
USB Port	USB-A
USB Decoder	MP3 / AAC / FLAC / APE

09 / ENTERTAINMENT SYSTEM

9.14 Soundbar controls



Button	Function	Operation
Play / Pause	Media playback	Short press to toggle between play and pause.
Tone Effect	Select EQ mode	Short press to toggle Ordinary / Outdoor / Vocal.
Ambient Light	Speaker light effect	Short press to toggle between 8 ambient light modes.
Backlight	Backlight effect	Short press to toggle between 8 ambient light modes.
Previous / Next	Track skip	Short press to switch to the previous or next track.
Power	Soundbar power	Press and hold to turn the soundbar on or off.
Volume	Adjust volume	Press left to decrease, right to increase. Long press for continuous adjustment until muted or at maximum.
Mode Select	Source select	Short press to toggle Bluetooth / Wireless Audio / Line-in. A Music mode is added when a USB drive is inserted.

09 / ENTERTAINMENT SYSTEM

9.15 Audio sources and steering controls

The soundbar supports three audio input modes: Line-in, Bluetooth, and USB flash drive.

Line-in mode

Upon vehicle power-on, audio defaults to the media screen audio channel.

Bluetooth mode

Press the soundbar button to enter Bluetooth mode. Enable Bluetooth on your phone, search for the device name "JKC-01", and tap to connect. An audible alert confirms a successful connection.

i NOTE

Ensure your mobile phone has Bluetooth enabled.

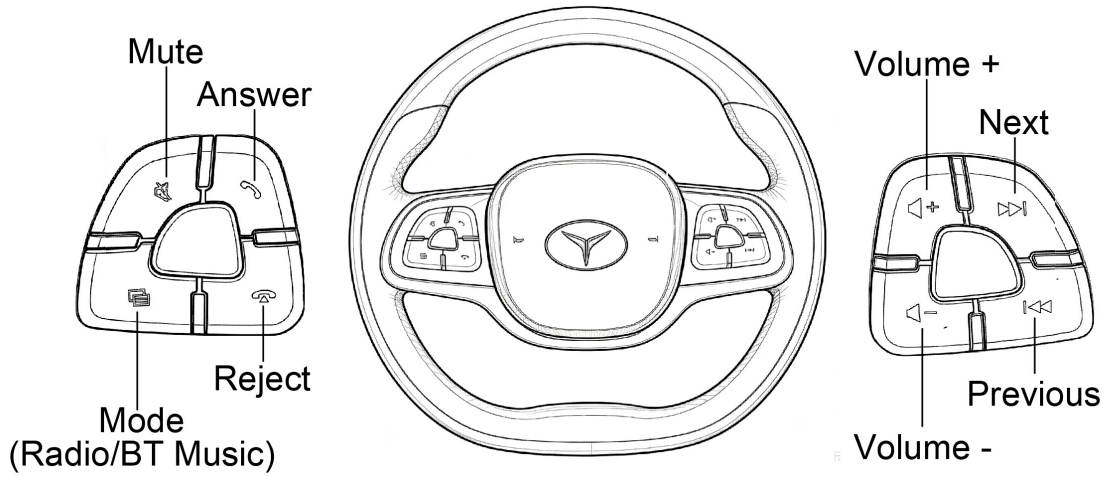
The mobile phone must remain within a 10-meter connection range.

USB flash drive mode

Insert a USB drive into the USB port; the soundbar will automatically play the audio files stored on it.

Multifunction steering wheel

This wireless multifunction steering wheel enables interaction with the media display via steering-wheel-mounted controls. The horn switch is located at the center, and the wheel features an automatic turn-signal reset/cancel function.



⚠ CAUTION

Protect steering wheel buttons from water — take precautions during heavy rain and vehicle washing.

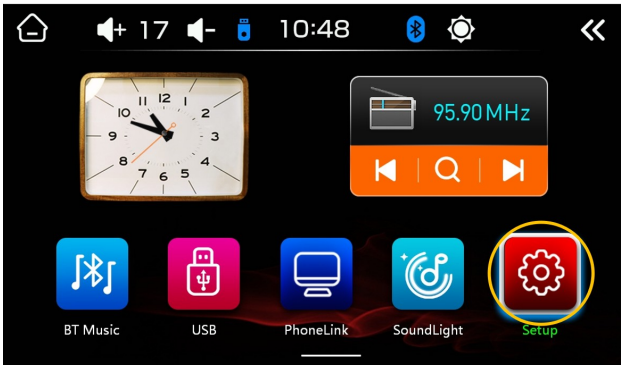
09 / ENTERTAINMENT SYSTEM

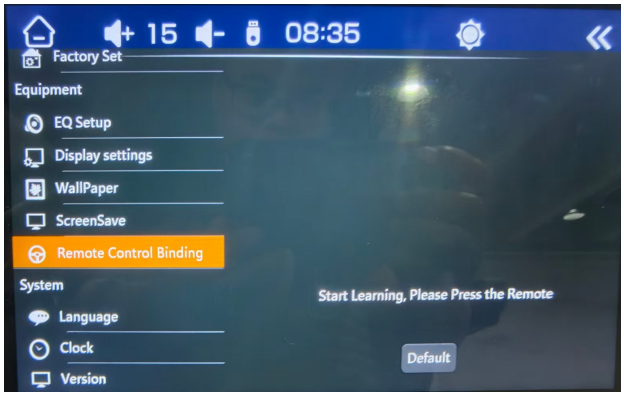
9.16 Pair the steering wheel

This steering wheel uses a broadcast-type wireless signal. To prevent interference with other vehicles, it must be paired with the media screen. Follow the steps below:

1. Open the top cover of the steering wheel, remove the small battery, and confirm the battery compartment switch is set to ON.
2. Put the battery back in its original position and replace the steering wheel cover.
3. On the media screen, tap the "Setup" icon.
4. Tap "Remote Control Binding", then press any button on the steering wheel to complete binding. (To clear a previous binding — e.g. when replacing the wheel — tap the clear icon first.)
5. A confirmation notification appears once binding is successful.







10 Wheels and tires

⚠ WARNING

Do not overinflate the tires — excess pressure can cause the tire to explode.

When seating tire beads, inflate in gradual stages — overinflation of small tires can occur within seconds.

Protect your face and eyes when removing the tire valve core. Use only sockets designed for impact wrenches to reduce the risk of injury from a broken socket.

Do not use tires with inflation pressure below the recommended level.

⚠ CAUTION

Always tighten wheel nuts in a star/cross sequence to ensure even seating against the wheel hub.

i NOTE

General recommendation: highway tires at 32 PSI, off-road tires at 35 PSI — adjust as needed for terrain conditions.

Keep all four tires at the same pressure for optimal handling. Always replace valve caps after checking or inflating.

Recommended tire pressures

Tire type	Pressure
Highway tires	32 PSI
Off-road tires	35 PSI

11 Vehicle maintenance

11.1 Maintenance precautions

Regular maintenance is necessary to ensure the vehicle operates properly and delivers a comfortable driving experience.

⚠ WARNING

Accidental operation of the vehicle may result in serious personal injury or death. Before leaving the vehicle or performing maintenance, turn off the vehicle power.

Only trained technicians should perform vehicle repair or maintenance. Anyone performing even the simplest repair should possess knowledge, skill, and experience in electrical and mechanical service, and should follow the corresponding instruction manuals. Failure to properly maintain the vehicle may reduce performance and cause fire, property damage, serious injury, or death. If a fault is found during inspection, do not continue driving until repairs are complete.

Never operate the vehicle's powertrain while loaded. When servicing the vehicle or battery charger, do not wear loose clothing or jewelry. Lift only one end of the vehicle at a time, using a lifting device rated for at least 1,000 lbs (454 kg) — never use a lifting device to hold the vehicle in a raised position. Use properly rated jack stands and chock the wheels remaining on the ground.

If wires must be removed or replaced, ensure cables and harnesses are properly routed and securely connected — improper routing may cause malfunction, property damage, serious injury, or death.

⚠ CAUTION

When performing vehicle repairs, wear safety goggles or approved eye protection. Wear rubber gloves when working near the battery area.

11 / VEHICLE MAINTENANCE

11.2 Daily maintenance schedule

Regular maintenance is essential for ensuring vehicle performance, reducing operating costs, and extending service life. We recommend maintaining your vehicle according to the schedule below.

Item	Operation	Interval
Vehicle condition	Inspect overall condition and clean as needed	Daily
Battery	Fully charge after each use	Daily
Steering system	Check for smooth, unobstructed operation	Daily
Front suspension	Verify all hardware is secure and not missing	Daily
Rear suspension	Check for leaks; verify hardware is secure	Daily
Tires	Check condition and air pressure	Daily
Wheel lug nuts	Check for proper tightness	Daily
Accelerator pedal	Check for smooth, unobstructed operation	Daily
Brake system	Verify smooth operation and braking distance	Daily
EM brake	Check parking brake performance	Daily
All lights	Check proper operation	Daily
Switches	Check proper operation	Daily
Fluid leaks	Inspect entire vehicle	Daily
Charge port	Inspect terminal connections and cleanliness	Daily

11 / VEHICLE MAINTENANCE

11.3 Periodic and special maintenance

Item	Operation	Interval
Wiring	Inspect for loose connections, damaged insulation	12 months
Steering system	Inspect for play, worn bushings, loose hardware	12 months
Tie rod	Inspect for play, bent rods, loose hardware	12 months
Front suspension	Inspect for play, worn bushings, loose hardware	12 months
Rear axle	Check for leaks and oil level; top up as needed	12 months
Rear suspension	Inspect for leaks, worn bushings, loose hardware	12 months
Front wheel alignment	Check and adjust if necessary	12 months
Rear axle	Change differential fluid	24 months
Brake pads	Inspect wear; replace below thickness limit	24 months
Brake fluid	Change brake fluid	36 months

Unscheduled and special maintenance

We recommend a comprehensive vehicle health check at an authorized dealer service center, based on usage conditions and vehicle status — including inspection or replacement of brake discs and brake pads as needed.

If the vehicle is regularly driven under the following severe conditions, extra maintenance procedures may be necessary and the service schedule should be adjusted accordingly:

- Driving in high-dust environments
- Driving in extremely cold (below -20 °C) or hot (above 40 °C) environments
- Driving in humid environments or frequently wading through water
- Driving on roads with salt or corrosive materials
- Frequent braking or driving in mountainous areas
- Frequent operation under heavy load or other special usage conditions
- Installation of aftermarket accessories or modifications

11.4 Tire and brake inspection

Tire inspection and maintenance

- Frequently inspect tires for damage (punctures, cuts, tears, bulges) and remove embedded foreign objects.
- Replace the tire valve dust cap as soon as possible if lost.
- Keep tires away from oil, grease, or fuel.
- New tires need a break-in period of 500 km — drive at moderate speeds with caution during this period.
- When crossing curbs or similar obstacles, approach at a near-right angle and drive over slowly.
- Fast cornering, rapid acceleration, and hard braking all increase tire wear.
- Check tire dynamic balance after replacement.
- If the vehicle pulls to one side or won't track straight, have the alignment inspected at an authorized dealer.
- Rear tires wear less than front tires — rotate front and rear tires periodically.

i NOTE

If tire wear is uneven, have the dynamic balance checked at a service center.

When driving over potholes, speed bumps, or rough roads, slow down to reduce the risk of tire bulges or blowouts.

Brake pad and rotor inspection

On wet, icy, or snowy roads, lightly apply the brakes occasionally to warm and dry the pads — do the same in extremely humid or cold weather. After washing the vehicle, briefly apply the brakes while driving to dry them and help prevent rotor rust.

Brake pad and disc wear depends heavily on driving style and usage conditions, so it cannot be judged by mileage alone. New brake pads and discs require a break-in period of at least 500 km — press the pedal more firmly during this time to compensate for reduced braking effect.

11 / VEHICLE MAINTENANCE

11.5 Battery maintenance

The battery is a critical drive component. Please observe the following precautions:

- Parking in extremely hot or cold environments directly reduces battery lifespan — avoid parking in such conditions for more than 8 hours.
- Do not park in high-temperature areas or near heat sources, to avoid fire risk.
- Park in a dry place; avoid damp or wet parking areas whenever possible.
- For extended storage, keep the battery charge above 50% and park in a cool, dry place. Check weekly and drive the vehicle at least once a month.
- On bumpy, gravel, or uneven roads with obstacles, slow down or steer around them when possible.

⚠ WARNING

The battery is high-voltage. Do not touch, move, or disassemble it or its wiring without authorization, to avoid personal injury.

⚠ CAUTION

When the range shows 0 km, charge the vehicle within 24 hours. If not charged within 72 hours, irreversible damage to the battery may occur.

Power cycle procedure

For extended periods of non-use, perform the Power Cycle Procedure to help ensure accurate SOC readings. Failure to do so may result in SOC inaccuracies.

1. With the vehicle off, turn on the hazard lights, then turn off the battery.
2. Wait until the hazard lights stop blinking.
3. Press the horn to verify that the system is fully off.
4. Disconnect the main positive and negative cables from the controller. Wait 1–2 minutes.
5. Reconnect the power cables, then turn on the battery.
6. Allow the charger to perform its self-check. If the check is successful, the state-of-charge (SOC) LEDs illuminate.
7. Plug the charging cord into the wall outlet, then into the vehicle charge port.
8. Check the charger LEDs. The charge LED should illuminate and the fan should turn on.
9. With the charger on, verify that the display shows an output of 1,200 W or more.

11 / VEHICLE MAINTENANCE

11.6 Charger blink codes

CIS02 internal indicator guide

Fault	20%	100%	20% + 100%	Corrective action
Fast battery overvoltage	1	1	2	Check battery voltage and compatibility.
Fast bus overvoltage	1	1	3	Power cycle; contact the manufacturer if needed.
Fast bus overvoltage (2)	1	2	1	Power cycle.
Fast bus overcurrent	1	2	2	Power cycle.
Battery undervoltage	1	2	3	Check battery voltage.
Charge/discharge battery overcurrent	1	3	1	Power cycle.
Bus undervoltage	1	3	2	Power cycle.
Fast battery undervoltage	1	3	3	Check battery voltage.
PFC overtemperature	2	2	2	Wait for automatic recovery.
PFC low temperature	2	2	3	Wait for automatic recovery.
Auxiliary 5 V overvoltage	2	3	1	5 V power supply hardware fault.
Auxiliary 5 V undervoltage	2	3	2	5 V power supply hardware fault.
Auxiliary 60 V overvoltage	2	3	3	60 V power supply hardware fault.
Auxiliary 60 V undervoltage	3	1	1	60 V power supply hardware fault.
Precharge fault	3	1	2	Power cycle the unit.
Battery not connected	3	1	3	Verify the battery connection.
Hardware PFC overcurrent	3	2	1	Power cycle.
Hardware battery overvoltage	3	2	2	Power cycle.
Hardware bus overvoltage	3	2	3	Power cycle.
Hardware charging battery overcurrent	3	3	2	Power cycle.
Hardware AC overcurrent	3	3	3	Power cycle.
Fast AC output overcurrent	4	1	1	Check for overload or short circuit.
Fast AC overvoltage	4	1	2	Power cycle.
Inverter overpower	4	1	3	Reduce load.
Communication fault	FAULT ON	OFF	OFF	Check CAN wiring; verify CANH/CANL.

12 Vehicle specifications

12.1 Technical specifications

Item	Specification
Exterior Dimensions (L/W/H)	120" / 53" / 77"
Unladen Weight	1,345 lbs (610 kg)
Maximum Payload	2,050 lbs (930 kg)
Battery	72 V 105 Ah
Controller	72 V 400 A
Motor	72 V 5 kW
Range	50 miles
Charger	72 V 15 A, with communication function
Safe Gradeability	25%
Min. Turning Radius	3.5 m
Min. Ground Clearance	≈ 137.8 in
Top Speed	19 mph (Non-LSV) / 25 mph (LSV)
Track Width	37.8 in
Wheelbase	96.5 in

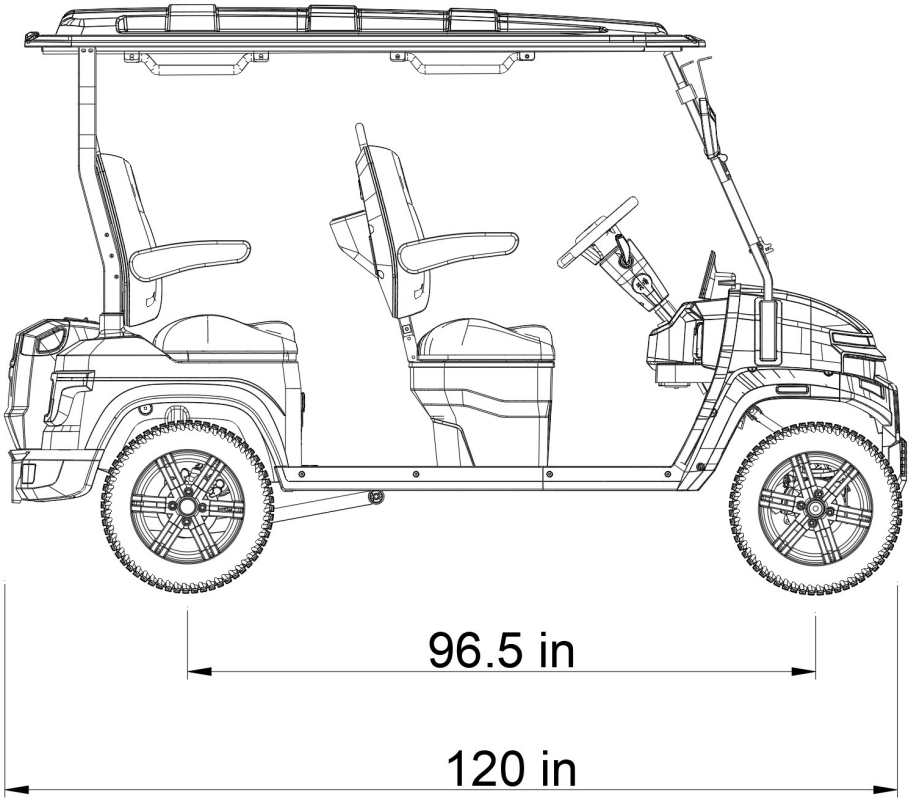
12 / VEHICLE SPECIFICATIONS

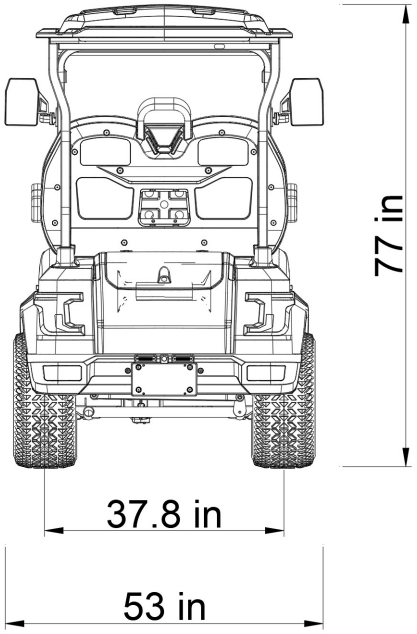
12.2 Vehicle equipment

Item	Specification
Frame	Carbon steel, double-layer corrosion protection
Suspension System	Double wishbone (front) / trailing arm (rear)
Ignition Type	Push-button start / NFC key card
Gear Shift	Column shifter
Steering Wheel	Adjustable, multifunction, power-assisted
Turn Signal	Auto-cancellation
Center Display	Dual connected display
Soundbar	Standard
Speakers	4
Seats	Vintage leather, single-tone, with headrest
Ambient Lighting	Ambient lighting + side sill trim
Seat Belt	3-point seat belt
Wireless Charging	Standard
Rear Storage Compartment	Standard
Trunk Tie-Down Strap	Standard
Trailer Hitch Ball	Optional
Side Step	Optional

12 / VEHICLE SPECIFICATIONS

12.3 Vehicle dimensions





13 Safety information

13.1 Safety information and labels

Important safety information

Please pay close attention to all notices, cautions, warnings, and danger information in this manual, and always bear in mind that vehicle maintenance requires mechanical skill and due regard for potentially hazardous conditions. Improper maintenance or repair may cause damage to the vehicle or render it unsafe.

Immediately replace any missing, damaged, or illegible safety decal to prevent possible property damage, personal injury, or death. Replacement decals are available from your dealer or distributor.

Understand and familiarize yourself with the laws and regulations governing vehicle operation in your region. If you have questions regarding the material in this manual, contact an authorized VANTA representative for clarification.

Safe vehicles play a critical role in preventing crashes and reducing the likelihood of serious injury.

Vehicle warning labels

The following safety decals are affixed to your vehicle. If any label is missing, damaged, or illegible, contact your dealer for a free replacement.

Seat belts and handrails





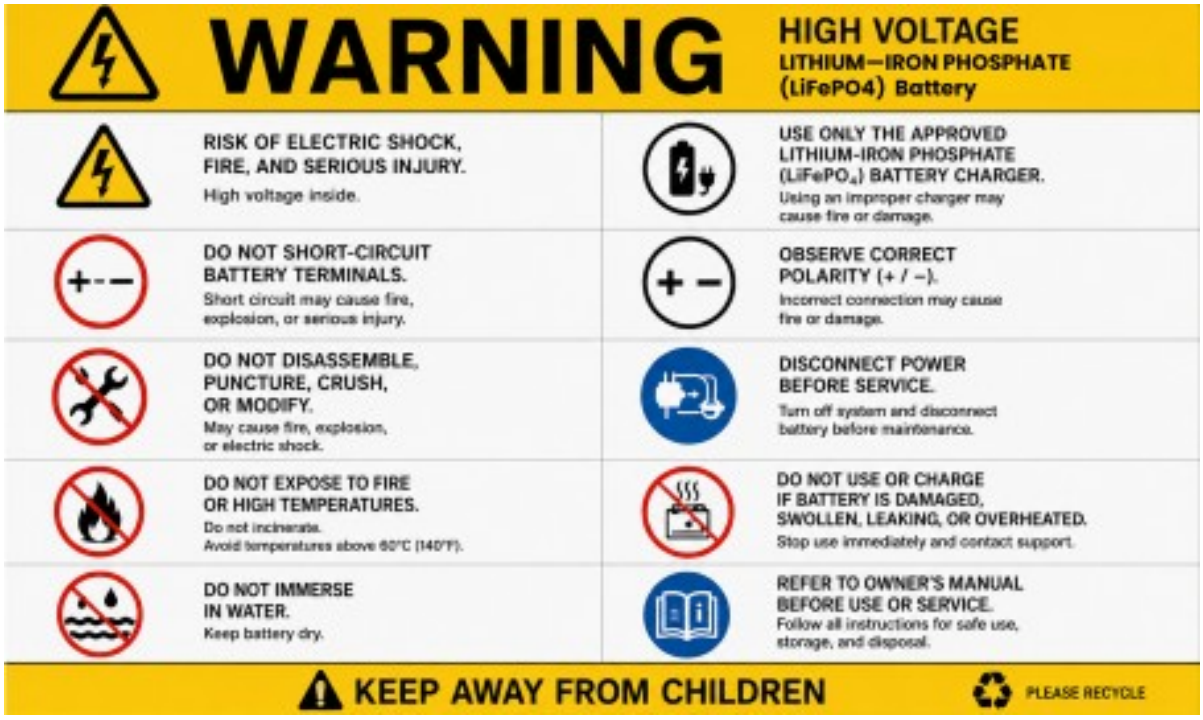
Hand crush hazard



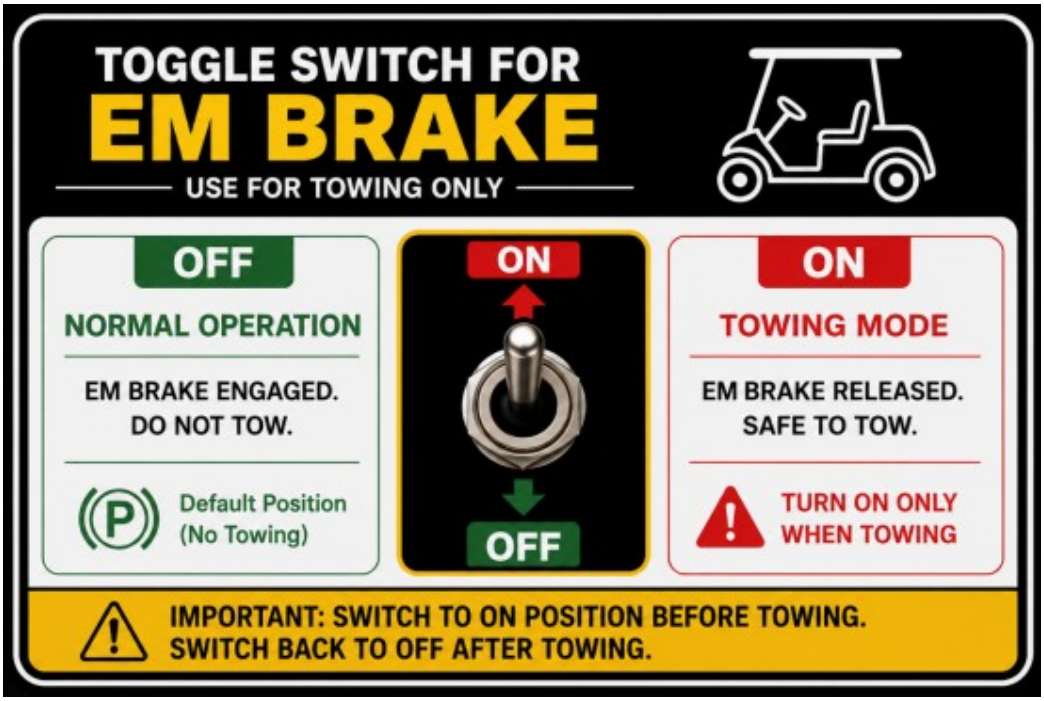
13 / SAFETY INFORMATION

13.2 Battery and brake warning labels

Battery warning



Electromagnetic brake switch



13 / SAFETY INFORMATION

13.3 Occupant warning labels

Safe driving and windshield warnings





Battery safety reminder



Accelerator and brake pedal reminder



14 Maintenance log

Use this log to record service performed on your vehicle. Retain all service receipts along with this manual.

Date	Mileage / hours	Service performed	Performed by

15 Notes