
ULV
TM

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XXXX Rev 01


ULV

Our Story

Founded by Kenny Nelson in a small town nestled in the heart of Minnesota's lakes country, we've built our company on the belief that luxury, performance, and authenticity can come from right here at home. Rooted in strong Midwest values like hard work, integrity, and community pride, we take a hands-on, detail-driven approach to every Low-Speed Vehicle (LSV) we build. Each vehicle is carefully hand-assembled using premium materials and the latest in electric vehicle technology, delivering a smooth, quiet ride with the kind of durability and performance that suits both luxury and everyday use. Our dedication to craftsmanship shows in every stitch, seam, and weld—reflecting the small-town work ethic that drives everything we do.

A key part of delivering this level of quality is our commitment to working with a network of premium suppliers who share our values and standards. These aren't just vendors—they're trusted partners we've built long-term relationships with through transparency, mutual respect, and a shared goal of excellence. From advanced battery systems to luxury-grade upholstery and precision-machined components, every part we source is chosen not just for its performance, but for the people and principles behind it. These partnerships allow us to maintain full confidence in the materials we use, ensuring every LSV we deliver meets the highest standards of safety, comfort, and reliability.

But for us, it's never just about the vehicle. Every delivery is a promise: to provide not only a high-quality, reliable LSV, but also a personal, high-touch service experience. We go the extra mile to make sure every customer becomes a part of the ULV family, proving that world-class products and service can come from the most unexpected, humble places.



Kenny




rockford fosgate




ULV








ULV
0
MPH
PHONE
AUDIO
CAST
95°F
8:13 PM


g-Force Comfort 2 AS
215/45ZR17

Introduction

Congratulations on your new ULV. As the pinnacle of modern leisure travel, ULV is committed to crafting the world's most refined and elegant leisure vehicle experience, without compromise. Every detail has been meticulously considered to anticipate your needs, exceed your expectations, and deliver exceptional functionality in its most sophisticated form.

This ULV User's Manual contains important information that you will need for the proper operation and handling of your ULV.

This User's manual covers the 322 and the 322 Carbon vehicle models. We encourage you to read this manual thoroughly before operating your ULV.

If you have additional questions regarding operation or maintenance of your ULV, please contact your local Authorized ULV Service Center for immediate support.

Thank you for choosing ULV.

After Sales and Support Department
322 Buchanan Rd, Ottertail, MN 56571
support@driveulv.com

ULV™

Contact

ULV, LLC. Technical Assistance and Service Parts
Phone:218-331-4455
322 Buchanan Rd
Ottertail, MN 56571
USA

For service inquiries:
service@driveulv.com

For warranty inquiries:
warranty@driveulv.com

For support, repair, and other general inquiries:
support@driveulv.com

Find your local contact at:
www.driveulv.com

REPORTING SAFETY DEFECTS

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

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your service provider, or ULV, LLC.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at:
1-888-327-4236 (TTY: 888-275-9171)
Additional information can be found at:
http://www.safercar.gov

To contact NHTSA write to:
Administrator
NHTSA
1200 New Jersey Avenue SE
Washington, DC 20590

You can also obtain other information about motor vehicle safety from:
http://www.safercar.gov

To contact ULV, please write to:
ULV
322 Buchanan Rd, Ottertail, MN 56571
support@driveulv.com

www.driveulv.com

Safety

Particularly important information is emphasized in this manual by the following notations:

The Safety Alert Symbol means **ATTENTION! BE ALERT! YOUR SAFETY IS INVOLVED!**



DANGER

Failure to follow DANGER instructions could result in severe injury or death to the vehicle occupants, a bystander, or a person inspecting or repairing the vehicle.

WARNING

Failure to follow WARNING instructions could result in severe injury or death to the vehicle occupants, a bystander, or a person inspecting or repairing the vehicle.

CAUTION

Failure to follow CAUTION instructions could result in damage to the vehicle, or the surroundings.

⚠ WARNING

Read and understand the manual completely before operating your ULV vehicle.

NOTE

ULV is continually making enhancements or improvements in design or quality which are applied to its products. This manual contains all available information on the current product at the time of printing; however, there can be minor differences between your ULV vehicle and this manual. If you have any questions concerning this manual or your ULV product, please consult ULV.

This manual is to be considered a permanent part of the ULV vehicle. Hence, it should always follow the vehicle, including when it is resold.

⚠ WARNING

Be aware that when operating on public roads, this vehicle provides significantly less protection in the event of a crash compared to standard automobiles, vans, trucks, or other motorized vehicles. This results in a higher risk of injury or death in collisions at any speed, especially in areas with heavy traffic or where vehicles travel at higher speeds.

To minimize the risk of injuries or accidents, please adhere to the following guidelines:

- All passengers must wear seatbelts at all times without exception.
- Always reduce speed when:
- Driving on hills
- Cornering
- This helps reduce the risk of the vehicle tipping over or passengers falling out.
- NEVER operate the vehicle while under the influence of alcohol and/or drugs.
- Remember, your safety and the safety of your passengers should always be your top priority when operating this vehicle.

IMPORTANT NOTE

Always operate this ULV vehicle in accordance with your state and local vehicle regulations, including:

- Registration
- Titling
- Insurance
- Seat belt usage
- Operator's licensing

Safety Precautions

- Turn the vehicle OFF and keep the keyfob with you before leaving the vehicle.
- ALWAYS fasten your seat belts!

Battery Care

To maximize the lifespan of your batteries:

- Keep the vehicle connected to the charger, even during extended periods of non-use.
- Safe vehicle conditons include: -4°F (-20°C) to 111°F (45°C), low humidity, no dust and no corrosive gas atmosphere.

The charger is designed to recognize charging needs

- It will maintain the batteries in optimal condition without causing damage.
- Avoid deep discharging of batteries whenever possible.
- This helps preserve battery capacity and longevity.

0.1 Manufacturer's Labels

Write your vehicle's identification numbers in the spaces provided.
The Vehicle Identification Number (VIN) is located on a tag mounted to the left side of the dash at the base of the windshield (see Fig 0.1).
The VIN identifies your vehicle's model year, model type, and serial number. The manufacturer's Certfication label, located on on the driver side interior (see Fig 0.2) lists the Gross Vehicle Weight Rating (GVWR) and Gross Axle Weight Rating (GAWR) for your vehicle.
Never operate the vehicle at a weight that exceeds either the GVWR or the GAWR.

1. VIN Label
2. Certification Label



Fig. 0.1



Fig. 0.2

Vehicle Identification Number (VIN)	
Vehicle Model Number:	

0.2 Radio Compliance Statements

The following statements apply to radio components offered with this vehicle. These include but may not be limited to the touchscreen display. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This device complies with FCC RF radiation exposure limits for general population. This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

⚠ CAUTION

This equipment complies with part 15 of the Federal Communications Commission (FCC) rules.
These requirements are intended to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

⚠ WARNING

Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals such as phthalates which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, wear gloves or wash your hands frequently when servicing your vehicle. For more information go to: www.P65Warnings.ca.gov/passenger-vehicle."

0.2 Warning Label Locations

For your safety, please note the location of primary warning labels on your ULV vehicle.

Front Cargo Limit

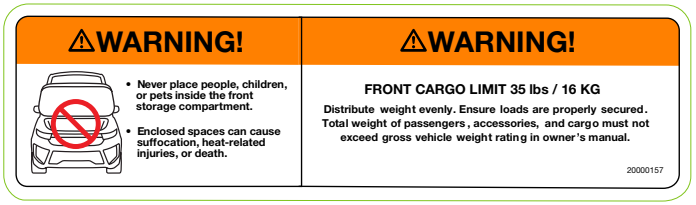


Fig. 0.3



Fig. 0.4

Rear Cargo Limit

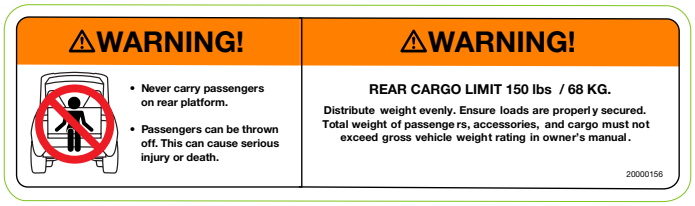


Fig. 0.5



Fig. 0.6

Rear Cargo Limit



Fig. 0.7



Fig. 0.8

Charging Warnings

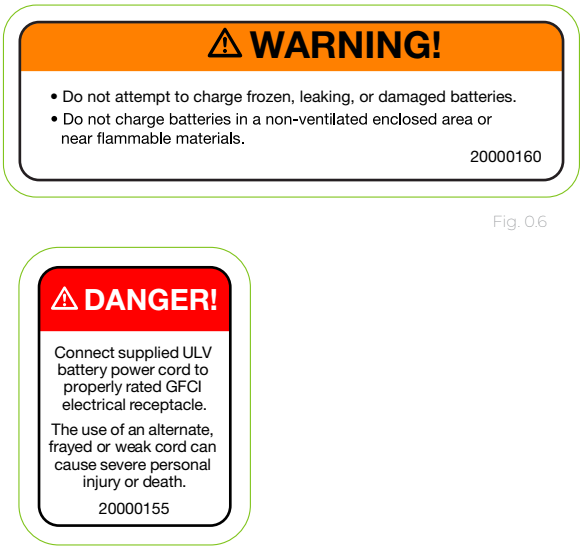


Fig. 0.6

Fig. 0.4



Fig. 0.9.4

Battery Warning

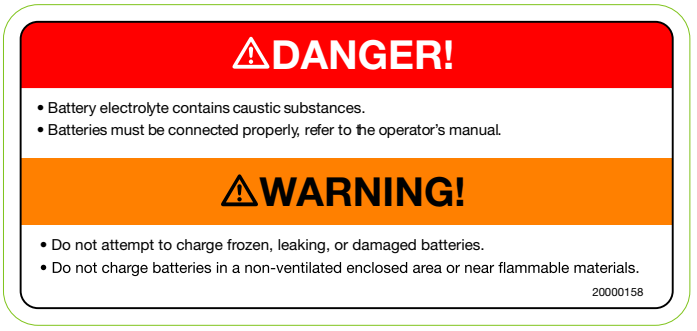


Fig. 0.3

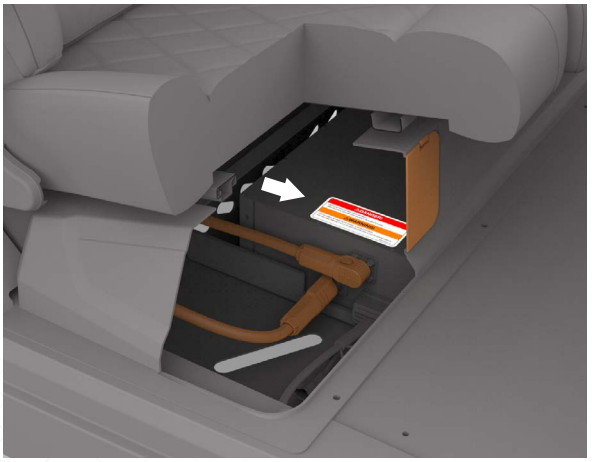


Fig. 0.9.1

Rollerover Warning

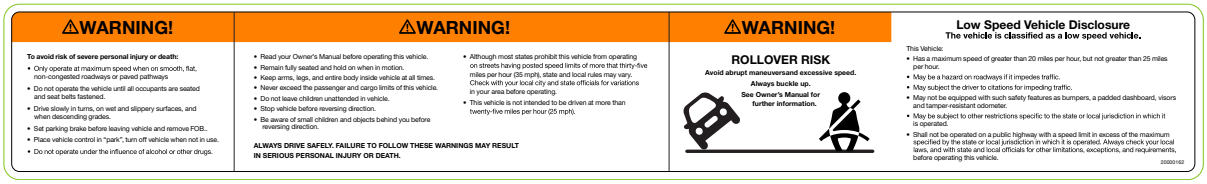


Fig. 0.8

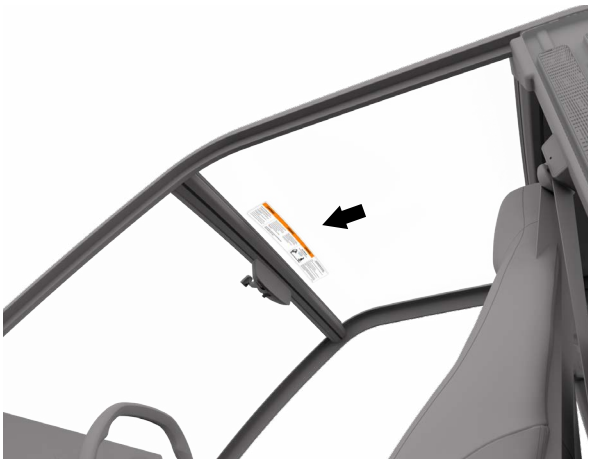


Fig. 0.9.3

1.0 Limited Warranty

1.1 Limitations of Warranties and Remedies

This ULV LLC limited warranty excludes any failures not resulting from defects in materials or workmanship. Claims related to defective design are not covered by this warranty. Additionally, coverage does not extend to damage caused by acts of God, accidents, normal wear and tear, abuse, or improper handling.

This warranty also does not apply to any vehicle, component, or part that has been structurally altered, modified, neglected, improperly maintained, or used for racing, competition, or any purpose other than its intended use. Damages occurring during trailer transit, or as a result of unauthorized service or the use of unauthorized parts, are also excluded from coverage.

This warranty does not cover damages or failures caused by:

- Improper lubrication
- Corrosion
- Surface imperfections resulting from external stress, heat, cold, or contamination
- Operator error or abuse
- Incorrect component alignment, tension, adjustment, or lack of altitude compensation
- Ingestion or contamination by snow, water, dirt, or other foreign substances
- Inadequate or improper maintenance
- Modified components
- Use of aftermarket or unapproved components, accessories, or attachments
- Use of unauthorized software or calibration
- Unauthorized repairs
- Repairs performed after the warranty period has expired or by an unauthorized service center

Additionally, this warranty does not cover damages or failures resulting from abuse, accidents, fire, explosion, or any cause other than a defect in materials or workmanship. Consumable components, general wear items, and any parts exposed to friction, stress, environmental conditions, or contamination beyond their intended design or purpose—including, but not limited to, the following items—are also excluded from coverage.

1.2 What is Covered

This warranty covers any repairs or replacements necessary due to defects in materials or workmanship of the vehicle. This includes:

- Wheels and tires
- Suspension components
- Brake components
- Seat components
- Steering components
- Bushings/Bearings
- Finished and unfinished surfaces
- Upholstery
- Lubricants
- Sealants
- Fuses
- LED lights/Sealed beam lamps

This warranty does not cover the following battery-related issues:

- Batteries that fail due to improper maintenance, abuse, or neglect
- Batteries damaged by fire, collision, explosion, or freezing
- Broken or physically damaged batteries
- Batteries harmed by the use of a non-OEM charger (IEC 320-C15 - GFCI Cord)
- Batteries that have been improperly stored and allowed to discharge
- Battery packs containing products from other manufacturers
- Batteries that have been submerged in water

01 WARRANTY

Additionally, this warranty does not cover any personal losses or expenses, including but not limited to mileage, transportation costs, lodging, meals, shipping or handling fees, product pick-up or delivery, rental replacements, loss of product use, lost profits, or loss of vacation or personal time.

THE SOLE AND EXCLUSIVE REMEDY FOR A BREACH OF THIS WARRANTY IS, AT THE OPTION OF ULV LLC, THE REPAIR OR REPLACEMENT OF ANY DEFECTIVE MATERIALS, COMPONENTS, OR PRODUCTS. THESE REMEDIES ARE THE ONLY ONES AVAILABLE FOR ANY BREACH OF THIS WARRANTY. ULV LLC WILL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES OF ANY KIND, WHETHER ARISING FROM EXPRESS OR IMPLIED WARRANTY, CONTRACT, NEGLIGENCE, TORT, OR OTHERWISE. THIS EXCLUSION OF INCIDENTAL, CONSEQUENTIAL, AND SPECIAL DAMAGES APPLIES EVEN IF IT IS DETERMINED THAT THE EXCLUSIVE REMEDY HAS FAILED IN ITS ESSENTIAL PURPOSE.
THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY EXCLUDED FROM THIS LIMITED WARRANTY. ALL OTHER IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY, ARE LIMITED IN DURATION TO THE WARRANTY PERIODS STATED ABOVE. ULV LLC DISCLAIMS ALL EXPRESS WARRANTIES NOT SPECIFICALLY STATED IN THIS WARRANTY. NOTE THAT SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR LIMITATION ON THE DURATION OF IMPLIED WARRANTIES, SO THESE LIMITATIONS MAY NOT APPLY IF INCONSISTENT WITH CONTROLLING STATE.

2.0 Who Should Read This Manual

This manual is intended for all drivers and passengers of an ULV vehicle . Whether you are an experienced driver or new to the road, this guide contains valuable information that can help you stay safe.

2.1 Your Role in Vehicle Safety

While your vehicle is equipped with some safety technologies, it is ultimately up to you as the driver to ensure that these systems are used correctly. Always drive responsibly, obey traffic laws, and stay alert while behind the wheel. Remember that safe driving habits not only protects you but also those around you.

We are committed to providing you with a safe and enjoyable driving experience. Please take the time to read this manual thoroughly and keep it accessible for future reference. If you have any questions or need further assistance regarding your vehicle's safety features, do not hesitate to contact your ULV Service Provider.

Drive safely!

2.2 Check-up Before Use

Before the vehicle is put into operation, the following points of this section should always be followed to ensure the optimal, safe, and correct use of the vehicle.

Before using the the vehicle, please check the following:

1. Battery connections. 2.3
2. Tire conditions: cuts, wear, tire pressure, uneven wear tread depth. 2.3.1
3. Body and chassis: broken parts, cracks. 2.3.2
4. Brakes: fluid leaks on the floor, pad thickness. 2.4
5. Steering: loose or slop in steering. 2.5
6. Pedal operation. 2.7

2.3 Batteries

Check battery connections. Remove the access panel underneath the passenger seat to visually inspect the battery connections.

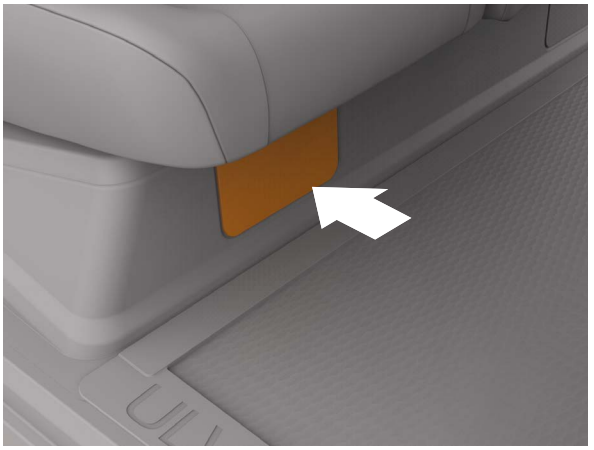


Fig. 2

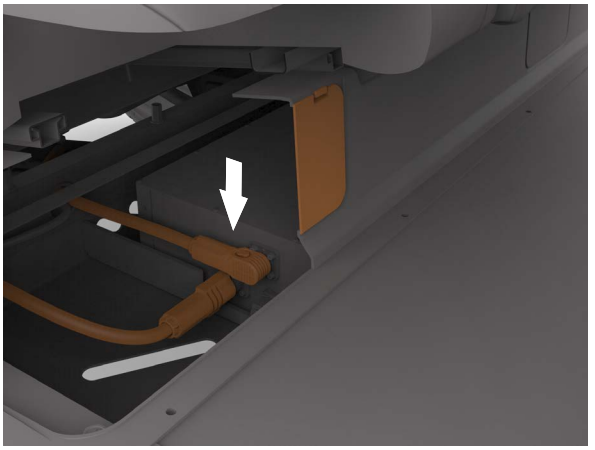


Fig. 2.1

2.3.1 Tire Conditions

2.3.1.1 Checking Tire Pressure

It is important that the tire pressure is checked and adjusted regularly before using the vehicle. See the certification plate for vehicle reference specs.

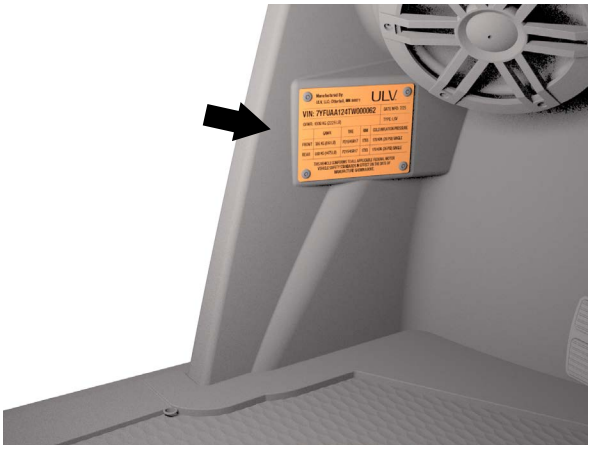


Fig. 2.2

Tires should be inflated
to the recommended
26 PSI / 179 KPA

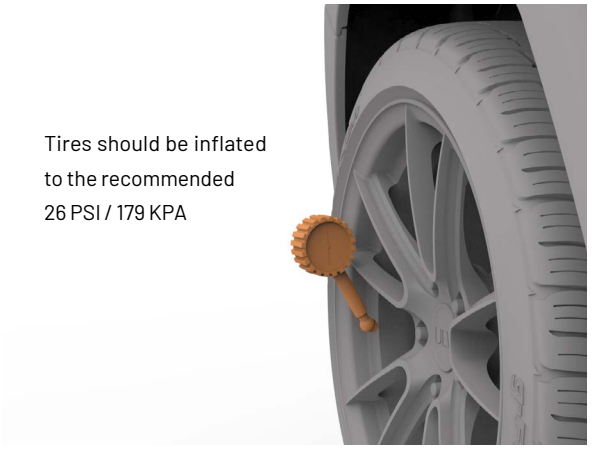


Fig. 2.3

2.3.1.2 Checking Tire Wear

When checking tire tread, inspect each tire thoughly, paying attention to the most worn areas. Uneven tread wear could indicate improper inflation or wheel misalignment, requiring inspection by a technician. When the tread wears down to 4/32 (0.125”), or in use for 6 years, it is recommended that the tire be replaced.



Fig. 2.5

2.3.2 Body & Chassis

Always visually inspect the chassis and body to make sure that all chassis and body parts are present, correctly mounted, and undamaged before using. Check that all electrical functions are working correctly. This includes:

- All lamps
- Turn signal indicators
- Horn
- Hazard lights
- Windshield wipers
- Mirrors

- Tailgate

2.4 Brakes

2.4.1 Brake Pedal Function and Safety

Proper brake pedal function is essential for vehicle control, ensuring responsive deceleration in normal driving conditions, emergencies, and compliance with safety standards.

2.4.2 Normal Brake Pedal Behavior

You should feel resistance after depressing the brake pedal about 1/3 of its total travel. The pedal should maintain a firm feel throughout its range of motion. Upon release, the brake pedal should promptly return to its original position.

2.4.3 Signs of Brake System Malfunction

If you can push the brake pedal all the way to the floor without encountering significant resistance, this indicates a potentially serious problem with your braking system.

2.4.4 Immediate Action Required

Should you experience any unusual brake pedal behavior, do not continue driving the vehicle. Instead, seek immediate assistance from a qualified repair shop. For optimal service and safety, it is strongly recommended to have repairs performed by an Authorized ULV Service Provider.

Remember, properly functioning brakes are crucial for your safety and the safety of others on the road. Regular brake system checks and maintenance can help prevent unexpected issues and ensure reliable vehicle performance.

2.5 Steering

Check steering for excessive play. Before driving: Turn steering wheel slightly to left and right.



Fig. 2.4

2.6 Acoustic Vehicle Alerting System

Your ULV is equipped with an Acoustic Vehicle Alerting System(AVAS) conforming to FMVSS 141: Minimum Sound Requirements for Hybrid and Electric Vehicles. The purpose is to produce artificial sounds to alert pedestrians, cyclists, and other vurnerable road users of an electric vehicle's approach, presence, direction, and departure.

2.7 Pedal Operation

Perform the following check on the pedal operation to ensure that pedals are working correctly as specified below.

⚠ WARNING

Always ensure that the vehicle is turned "OFF" before pedal operation is tested. Vehicle can accelerate abruptly if the vehicle is set to "DRIVE" or "REVERSE" position and potentially cause severe injury to persons or damage to property. Do not drive if the brakes are not working correctly.

2.7.1 Accelarator Pedal

- Ensure that: vehicle is turned off
- The accelerator pedal has full range of motion, and moving freely
- The pedal returns to its original postition when released.

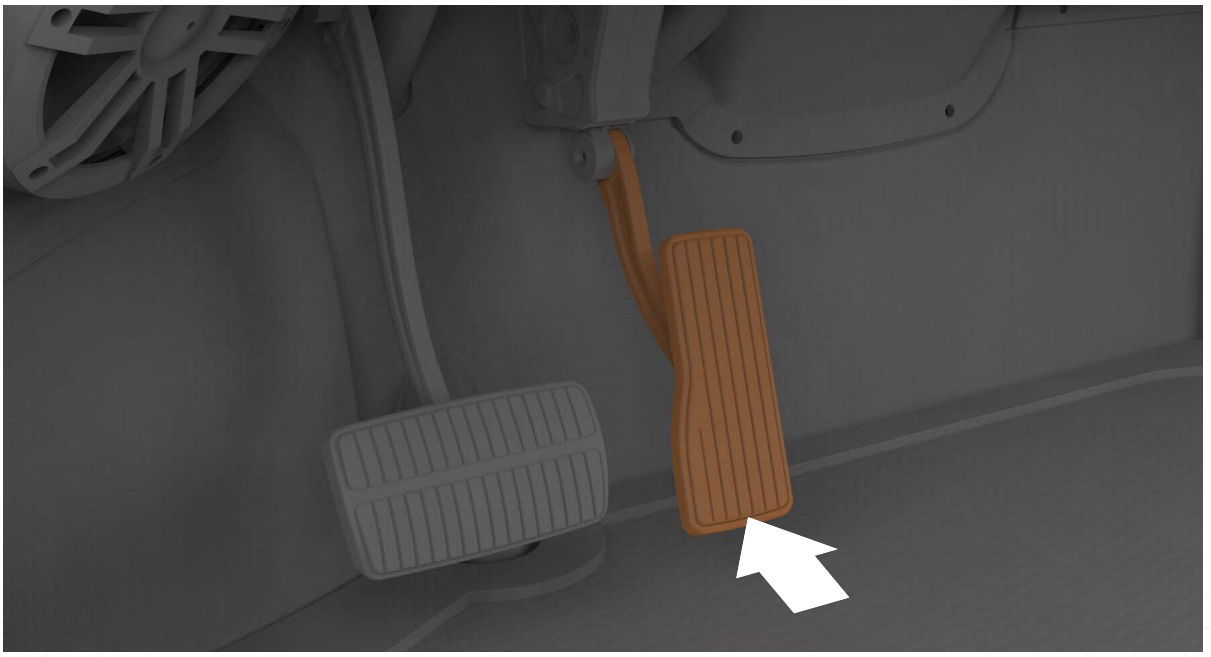


Fig. 2.5

2.7.2 Brake Pedal

Before driving, ensure that:

- You should feel resistance after depressing the brake pedal about 1/3 of its total travel. The pedal should maintain a firm feel throughout its range of motion. Upon release, the brake pedal should promptly return to its original position.
- The pedal returns to its original position when released.

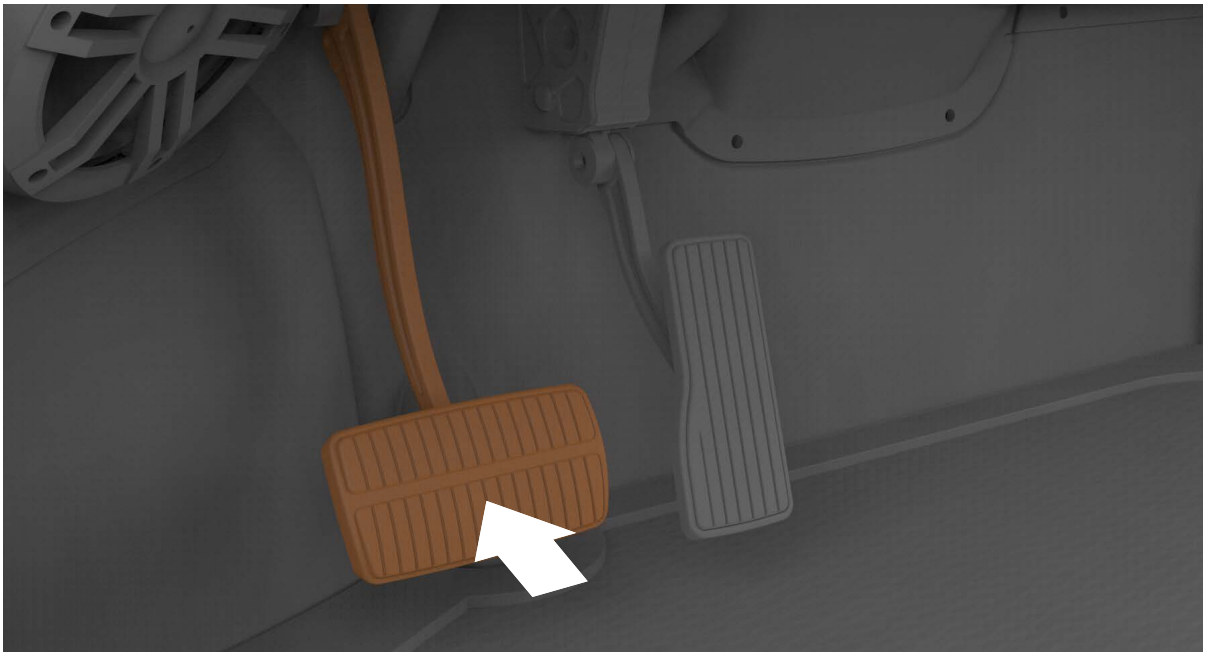


Fig. 2.6

⚠ WARNING

Always ensure that the vehicle is turned "OFF" before pedal operation is tested. Vehicle can accelerate abruptly if the vehicle is set to "DRIVE" or "REVERSE" position and potentially cause severe injury to persons or damage to property. Do not drive if the brakes are not working correctly.

2.8 Driving Safety

To drive your ULV vehicle safely, abide by the following requirements::

- Drivers must carry a valid driver's licence.
- Obey all traffic rules and regulations.
- Do not start vehicle until all passengers are fully seated and fastened.
- All passengers should wear the provided seatbelts when driving.
- Only carry the number of passengers for which there are seats.
- Do not carry children on laps or in child seats, the vehicle is not constructed for transporting children whom require a child safety seat.
- Do not allow anyone to stand in a moving vehicle.
- Make sure passengers are seated an buckled before moving, and do not allow anyone to get out of the car until it has completely stopped and the parking brake is engaged.
- Drive slowly and avoid excessive speeds.
- Avoid sudden starts or stops.
- Make gradual, controlled turns to prevent the car from tipping over.
- Do not drive fast downhill, and try to avoid steep slopes.
- Be aware that sudden stops or changes of direction could cause a loss of control.
- Drive straight up and down slopes to reduce the risk of vehicle rollover and occupant injury.
- Be aware of surroundings and anticipate potential dangers.
- Maintain a safe distance from other cars, and signal maneuvers in advance.
- Stay alert and anticipate the actions of pedestrians, cyclists, and other vehicles.
- Yield the right-of-way to pedestrians.
- Avoid distractions such as cell phones. Take caution when using the infotainment screen and features included.
- Slow down at corners or intersections, and when pedestrians are in the area.
- Always reverse slowly and pay attention to the road and surroundings.
- The vehicle might not be as visible in the night time. Always make sure to turn on the headlamps and tail lights whenever operating from dusk to dawn.

The ULV can cause serious injury or damage if used improperly or not maintained according to the vehicle's maintenance program. Before the vehicle is used, all necessary safety precautions must be taken and all the additional obstructions of the area, where the vehicle is used, must be observed.
The ULV vehicle should be safe to use as long as the safety precautions explained in the user's manual and on the vehicle are upheld. Safe driving habits involve planning your route, being aware of other road users, and separating risks to handle them one at a time.
It's crucial to scan the road for potential hazards and react accordingly. Defensive driving includes anticipating other drivers' mistakes, maintaining a safe speed, and staying alert. Avoiding distractions such as cell phones and focusing on driving are essential for preventing accidents. Being courteous, patient, and following traffic laws contribute to a safer and more pleasant driving environment for everyone.

2.9 Driving in Terrain or On Roads

Driving safely on different terrains and road conditions requires specific strategies to ensure control, minimize risks, and protect all road users. Here are key considerations for various scenarios:

2.9.1 Off-Pavement Roads (Gravel or Dirt):

- Reduce speed to maintain control, as loose surfaces can cause sliding.
- Avoid sudden braking or sharp turns to prevent skidding.
- Keep a safe distance from other vehicles to avoid dust clouds that reduce visibility.

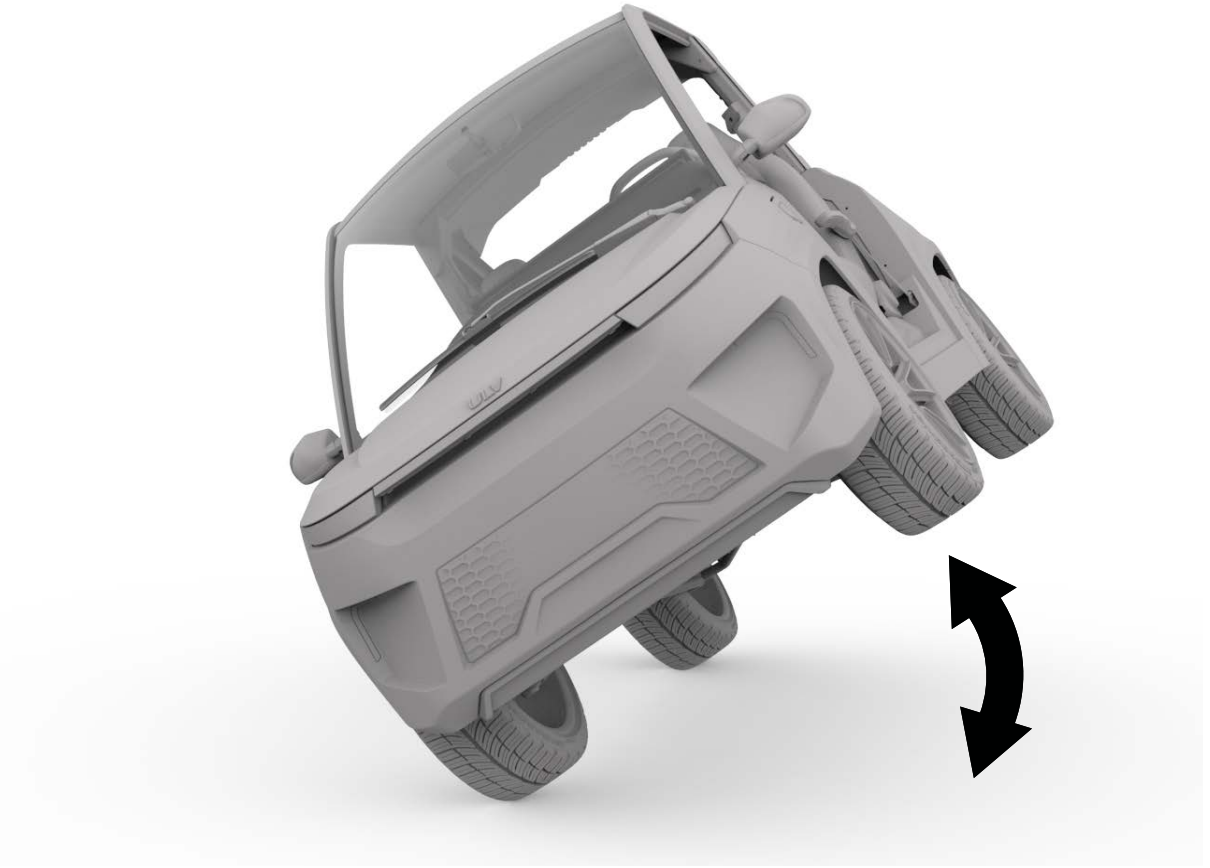


Fig. 2.7

2.9.2 Hilly Areas:

- Approach hills straight on rather than diagonally to avoid tipping.
- Avoid overusing brakes on steep descents; instead, brake lightly and intermittently.

2.9.3 Wet or Slippery Roads:

- Slow down and maintain a safe distance from other vehicles.
- Ensure your tires have adequate tread depth for better grip.
- Use headlights to improve visibility and ensure others see you.

2.10 Driver Qualifications

To operate this vehicle safely and legally, drivers must meet specific qualifications, understand their responsibilities, and adhere to safe driving practices. First, the driver must thoroughly read and understand this user's manual.

Safety and legal compliance are paramount. Responsible and safe driving is essential to prevent property damage and injuries to both the vehicle occupants and others. Drivers must have a strong understanding of local traffic laws and regulations and adhere to them at all times. To drive a ULV, a valid driver's license is legally required.

When driving, especially in areas with pedestrians or other traffic, drivers must exercise extreme caution. They should maintain low speeds and remain alert to their surroundings. In all ULV models, all occupants are required to wear seatbelts whenever the vehicle is in motion.

Finally, it is crucial that drivers have a comprehensive understanding of the vehicle's operation and all its features. By fulfilling these requirements and practicing safe driving habits, drivers contribute to a safer environment for themselves and everyone around them, while also ensuring compliance with all applicable laws and regulations.

2.11 Mirrors

ULV vehicles are equipped with factory-fitted, adjustable mirrors to provide optimal viewing conditions and enhance driving safety. Adjust the rearview and side mirrors before starting your drive. Do not adjust mirrors while the vehicle is in motion, as this can divert your attention and create dangerous situations. ULV models also include a reverse camera (see figure 2.8.3.)

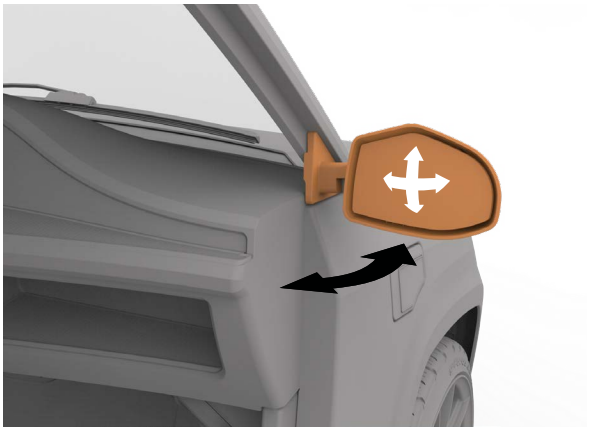


Fig. 2.8

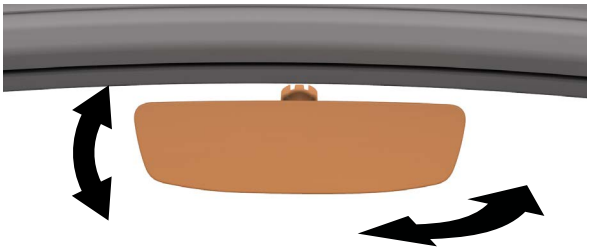


Fig. 2.8.1

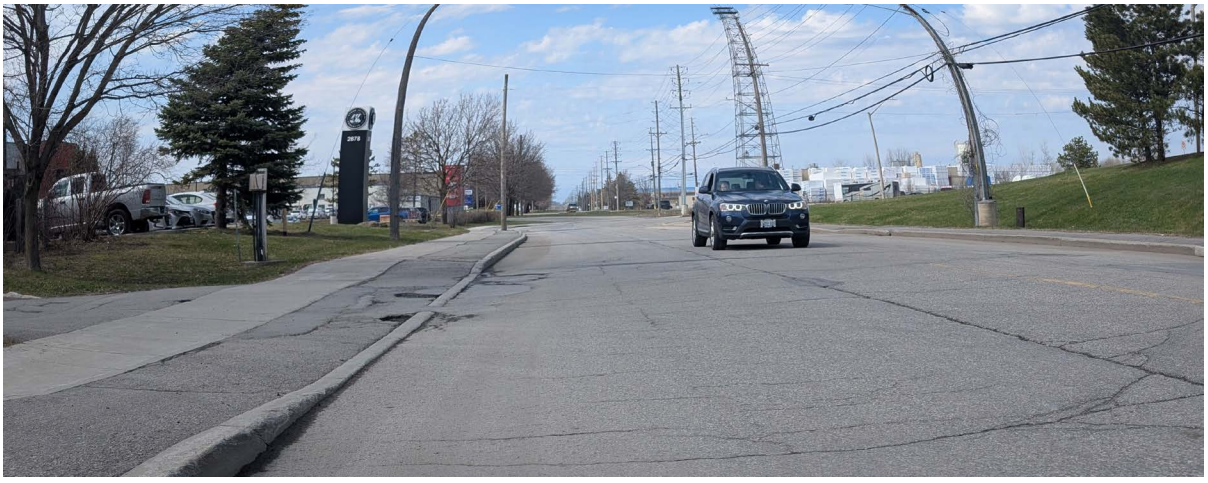


Fig. 2.8.3

2.16 Seatbelts

ULV vehicles are equipped with two type-2 (3 point) seat belts (see fig 2.8.4) and a center type 3- (2 point) seatbelt (see fig 2.8.5)) to enhance occupants safety. ***Note, there are no seatbelt sensors.** Before moving the vehicle, ensure that all occupants have securely fastened their seat belts. The seat belt must be worn snugly around the body and should not be tensioned around any objects, other than the person wearing it. Each seat belt is designed for use by one person only. Always follow these instructions and those provided on the vehicle before operation.

If a passenger's feet do not touch the floor, exercise extra caution while driving. For children, ensure they are fully secured to prevent the risk of falling out of the vehicle before starting to drive. Adhering to these safety measures ensures a safer experience for all passengers.

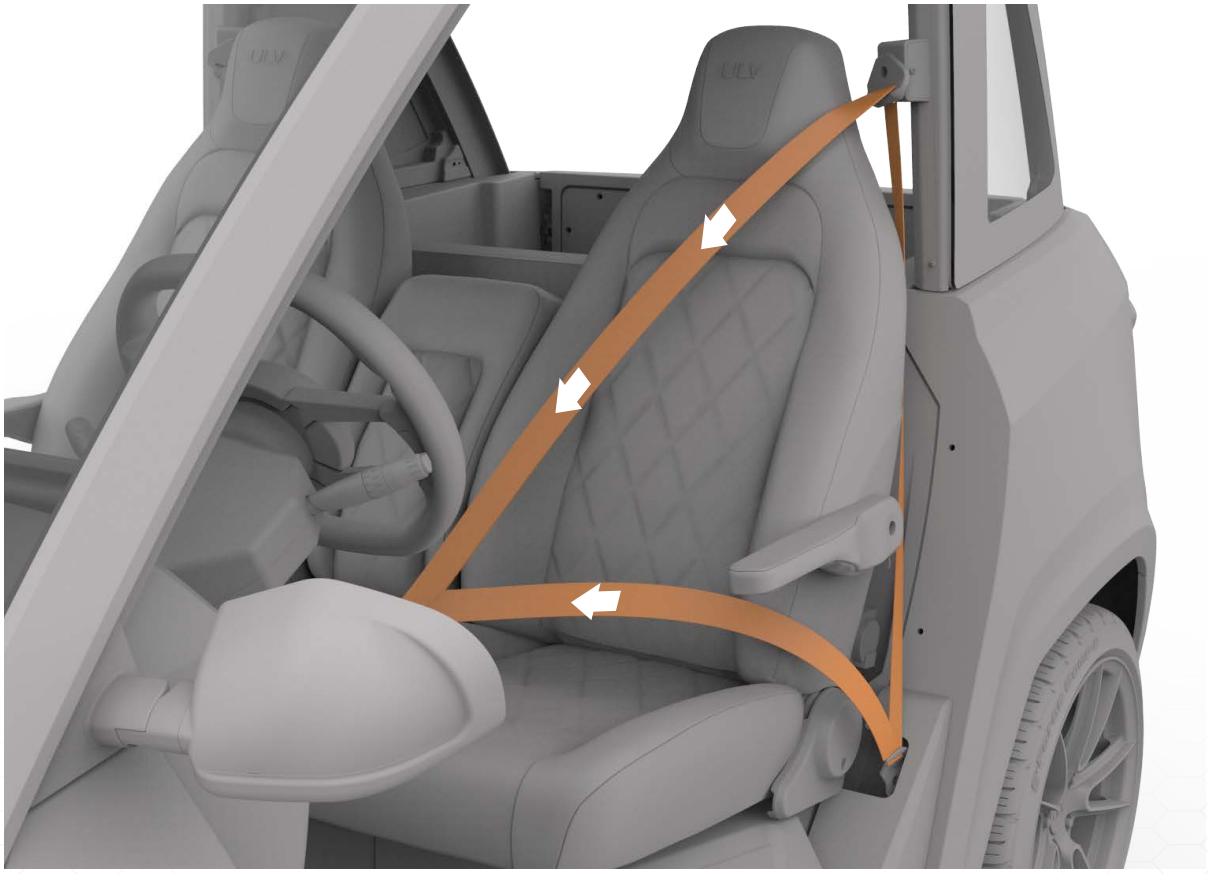


Fig. 2.8.4

⚠ WARNING

ALWAYS wear seatbelts correctly when driving. Failure to do so, can cause serious injuries or death in case of an accident.



Fig. 2.8.5

USING ALCOHOL OR DRUGS

WARNING

Operating the vehicle after consuming alcohol or drugs could adversely affect operator judgment, reaction time, balance and perception.
Never drink alcohol or use drugs or medications before or while operating this vehicle.

OPERATING A DAMAGED VEHICLE

WARNING

Operating a damaged vehicle can result in an accident. After any rollover or accident, have an authorized ULV dealer or qualified service dealer inspect the entire machine for possible damage, including (but not limited to) brakes, accelerator, steering system and electrical system.

OPERATING AT EXCESSIVE SPEEDS

WARNING

Operating this vehicle at excessive speeds increases the operator's risk of losing control. Always operate at a speed that's appropriate for your skills , the traffic, visibility, and operating condito.

EXHIBITION DRIVING

WARNING

Exhibition driving increases the risk of an accident or rollover. Never attempt wheelies, jumps, doughnuts or other stunts. Avoid exhibition driving.

TURNING IMPROPERLY

WARNING

Turning improperly could cause loss of traction, loss of control, accident or rollover. Always follow proper procedures for turning. Never turn abruptly or at sharp angles. Never turn at high speeds. Practice turning at slow speeds before attempting to turn at faster speeds.

VEHICLE ROLLOVER

WARNING

Vehicle rollover could cause serious injury or death. The cab frame is not designed or intended to provide rollover protection. Always make sure the seat belts are secured for operator and all passengers before operating. Avoid situations that could result in a rollover. Avoid sharp turns and abrupt steering maneuvers.

CARRYING CARGO

WARNING

Carrying loads on the roof could damage the roof and affect vehicle handling, which could result in an accident or rollover. Never carry loads on the roof of the vehicle.

Never exceed the stated load capacity for this vehicle. Cargo should be properly distributed and securely attached.

Reduce speed and follow the instructions on cargo warning labels for hauling cargo. Allow a greater distance for braking.

IMPROPER TIRE MAINTENANCE

WARNING

Operating this vehicle with improper tires or with improper or uneven tire pressure could cause loss of control or accident. Always use the size and type of tires specified for your vehicle.

Always maintain proper tire pressure as described in the owner's manual and on safety labels.

UNAUTHORIZED USE OF THE VEHICLE

WARNING

Leaving the keys in the vehicle can lead to unauthorized use of the vehicle by someone without a driver's license or without proper training. This could result in an accident or rollover. Always remove the key when the vehicle is not in use.

3. Batteries



Fig. 3

DANGER

Failure to follow DANGER instructions could result in severe injury or death to the vehicle occupants, a bystander, or a person inspecting or repairing the vehicle.

3.1 Battery Safety Warning and Instructions

Before operating or maintaining the batteries in this vehicle, carefully read and follow all safety instructions and warnings. Failure to comply may result in serious injury, death, or property damage.

3.1.1 Maintenance, Safe Handling, and Safe Storage



Fig. 3.1



Fig. 3.2

- The pack is designed for IP67 rating when all electrical connections are made. This means no high-pressure/steam jet cleaning of the pack and its surrounding is allowed.The pack must not be submerged in water without all the connections complete. After doing so, immersion is allowed up to 3ft (1m deep) for up to 30 minutes. ULV does not suggest driving the vehicle in deep water as this will void any battery warranty.
- Safe vehicle conditions include -4°F (-20°C) to 111°F (45°C), low humidity, no dust and no corrosive gas atmosphere.
- The pack will slowly discharge during storage. It is recommended to keep your vehicle plugged in when not in use.
- Failure to follow limits and warnings sent by the pack may result in sudden loss of power. This can be a dangerous event if the vehicle is in traffic.
- Avoid mechanical shocks to the pack. If visible mechanical damage is present, please contact ULV for further details.
- The pack internals should only be serviced by approved ULV personel.
- Removal of battery pack parts without explicit written approval by ULV. will void all warranty for this pack.
- If disposal of the pack is required, please contact ULV for instructions.
- This pack may present a risk of fire or chemical burn if mistreated or improperly handled. Do not

disassemble ,expose to temperatures above 158°F (70°C), or incinerate.

3.3 Charging The Battery

1. The battery charge door is located on the driver side above the tire (see fig 3.3).
2. Open the charge door to reveal the charge port. a standard IEC 320 plug. (see fig 3.4) Use the ULV provided 120V cord with an inline GFCI to plug into the charge port.
3. Connect the 120V cord to the vehicle before plugging into your power source (see fig 3.5).
4. Make sure to set your GFCI inline charger to off (blue) (see fig 3.6) before plugging your powersource in the the provided 120v cord.
5. Plug into your power source and then click the on the button (green) (see fig 3.7).
6. Leave your vehicle plugged in when not in use.



Fig. 3.3

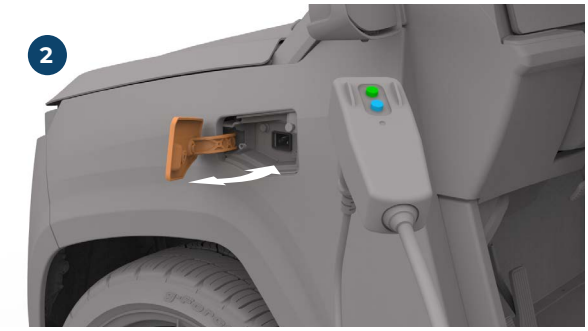


Fig. 3.4

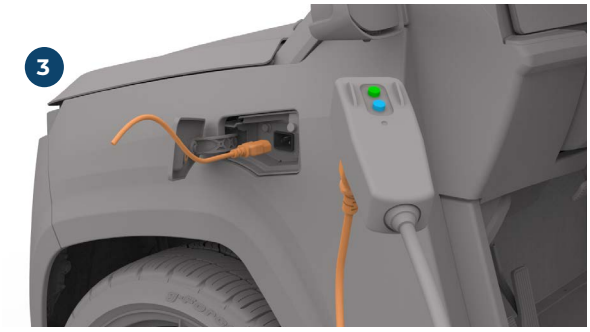


Fig. 3.5

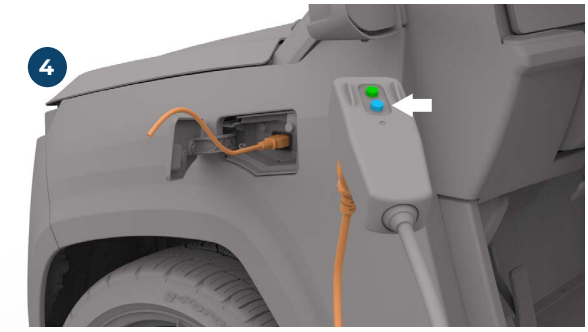


Fig. 3.6

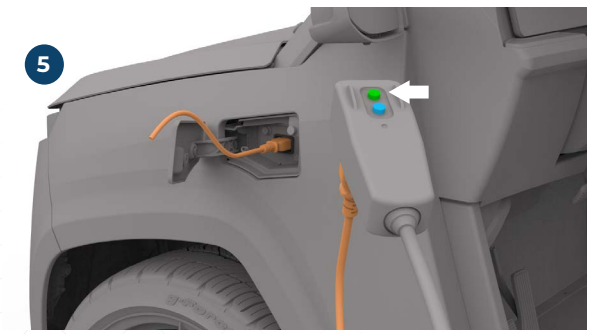


Fig. 3.7

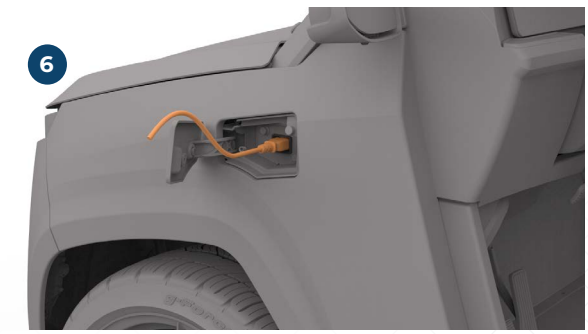


Fig. 3.8

4. Quick Start Guide - First Use



Fig. 4

A warm welcome to ULV! We are thrilled to have you join our community of car enthusiasts. At ULV, we are passionate about delivering exceptional driving experiences and innovative automotive solutions. Our mission is to provide you with the best vehicles and services that exceed your expectations.

As part of the ULV family, you can look forward to:

Exclusive Offers: Stay updated on our latest models, promotions, and special deals.

Insider Tips: Get expert advice on car maintenance, driving tips, and more.

Community Engagement: Join our social media platforms to connect with fellow car lovers and stay informed about upcoming events.

If you have any questions or need assistance, our dedicated team is always here to help. Feel free to reach out to us at 218-331-4455.

Thank you for choosing ULV. We look forward to a great journey together!

Best regards,

Kenny

ULV Team

4.1 Key Fob

The ULV's key fob is similar to standard automotive key fobs. You will notice that the ULV key fob does not contain any physical buttons, such as door lock and unlock buttons or remote starting, but it does contain proximity sensors. The key fob is necessary to start the vehicle and to maintain its security.

4.1.1 Key Fob Usage

ULV's key fob stays dormant until it detects slight movement. Just walking with the key fob in hand will wake it. The key fob will unlock driving capabilities of the ULV vehicle only at a close proximity to the vehicle (3-5ft). This ensures vehicle security and safety.

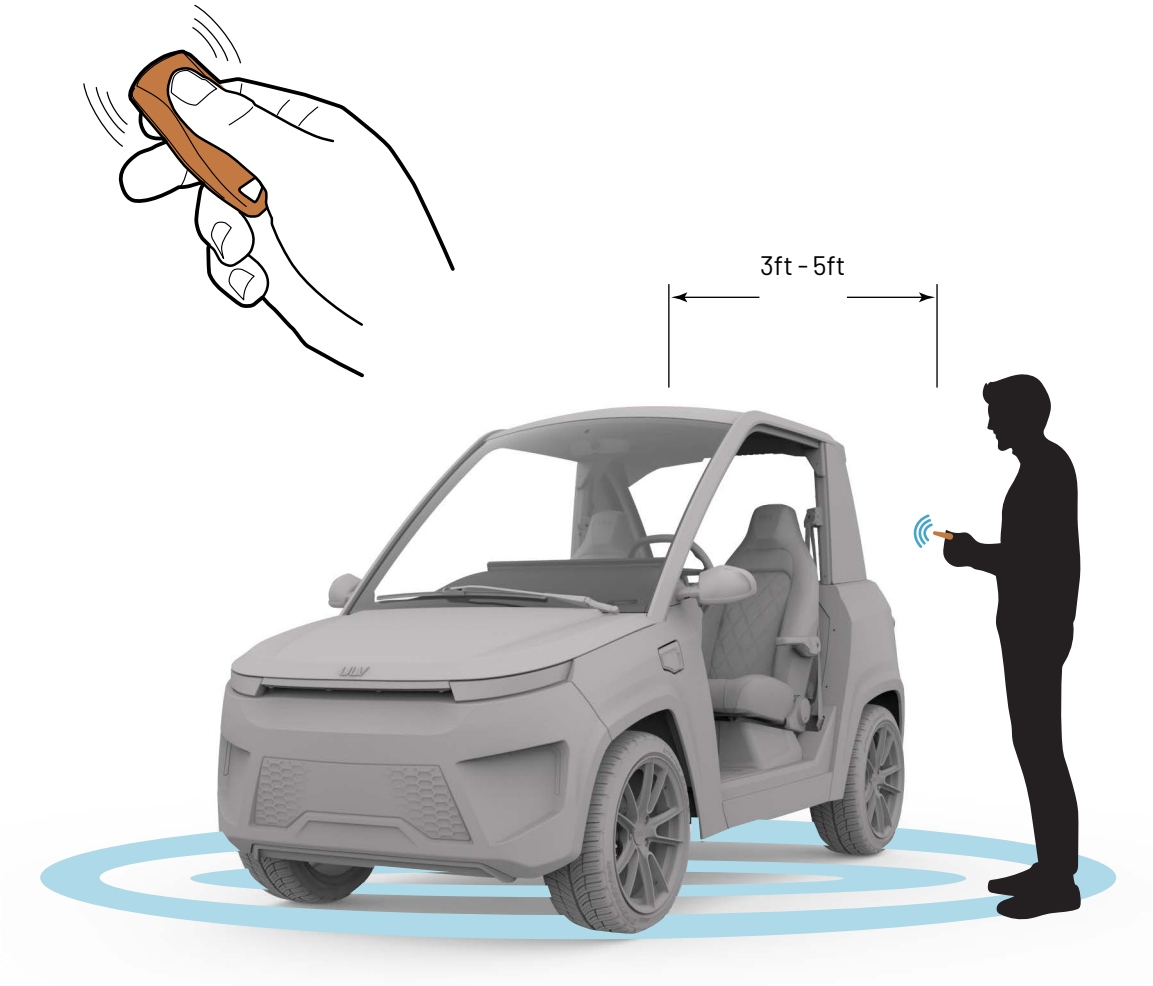


Fig. 4.1

4.2 Is Your ULV Ready to Drive?

You will know your ULV is ready to drive when the LED on the Push To Start button begins to pulse blue (every few seconds). If it does not, give your key fob a quick shake to wake it up.



Fig. 4.2

4.3 Let's Start your ULV

Press the start button to power on your vehicle. The cluster and infotainment will commence it's start up sequence and display ULV's distinct user interface. Your vehicle is ready to drive.



Fig. 4.3

4.4 Before You Drive

4.4.1 Pair Your Phone (Bluetooth)

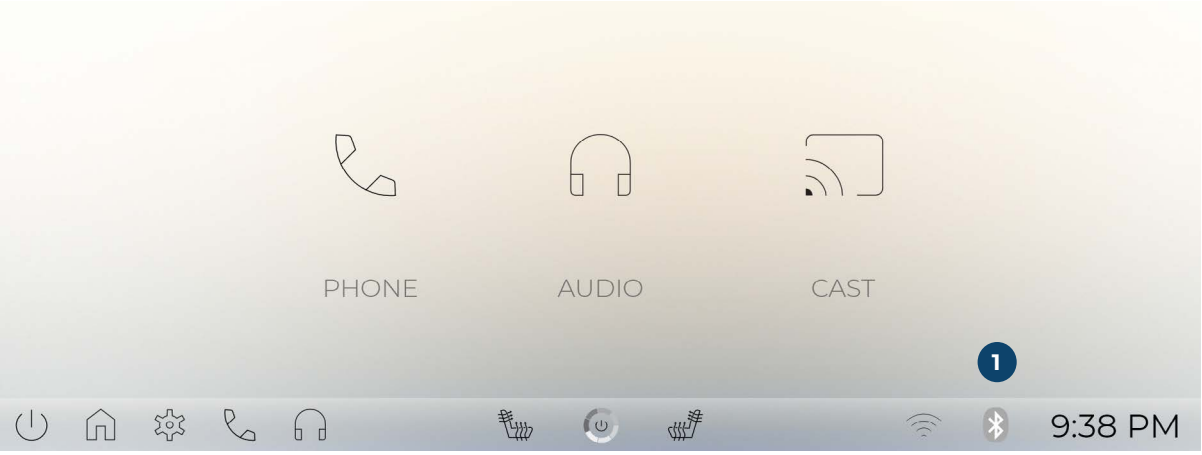


Fig. 4.4

The ULV infotainment system has bluetooth capabilities that allow you to pair your phone and enjoy music while you drive. Coupled with ULV's factory-installed Rockford Fosgate Sound System, the experience is like no other LSV.

1. Using the infotainment screen. Press the Bluetooth icon. (see fig. 4.4)
2. Press the "Pair new Device" + Button. (see fig. 4.5)
3. Wait for your vehicle and your phone to make a connection. (see fig. 4.6)
4. Confirm the pairing on your phone. Choose if you'd like to sync your contacts. (see fig. 4.7)
5. The icon on the infotainment will change to blue to show the device is connected. (see fig. 4.7)
6. Choose your favorite music phone app and turn up the volume on the console. (see fig. 4.7)(if no sound, ensure your phone volume is turned up.

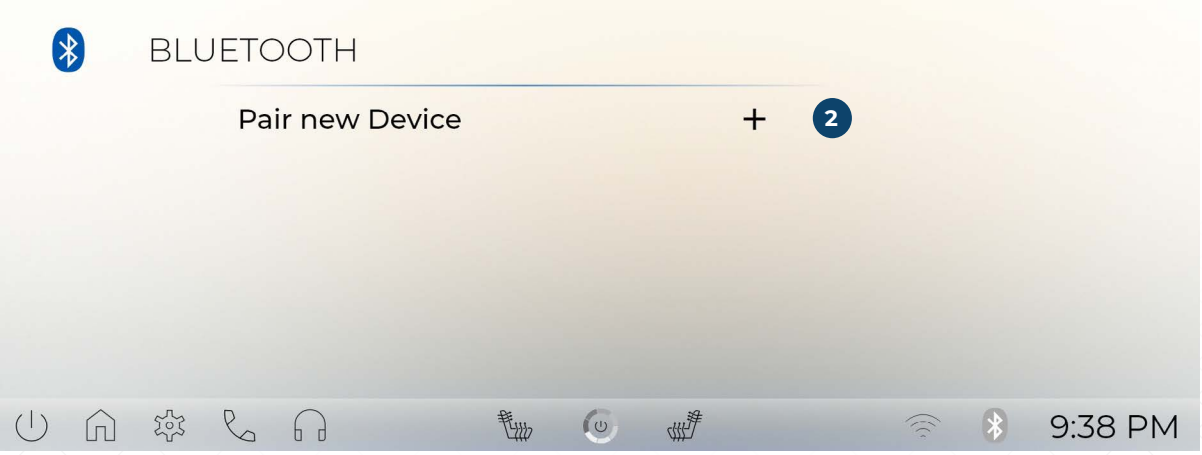


Fig. 4.5



Fig. 4.6

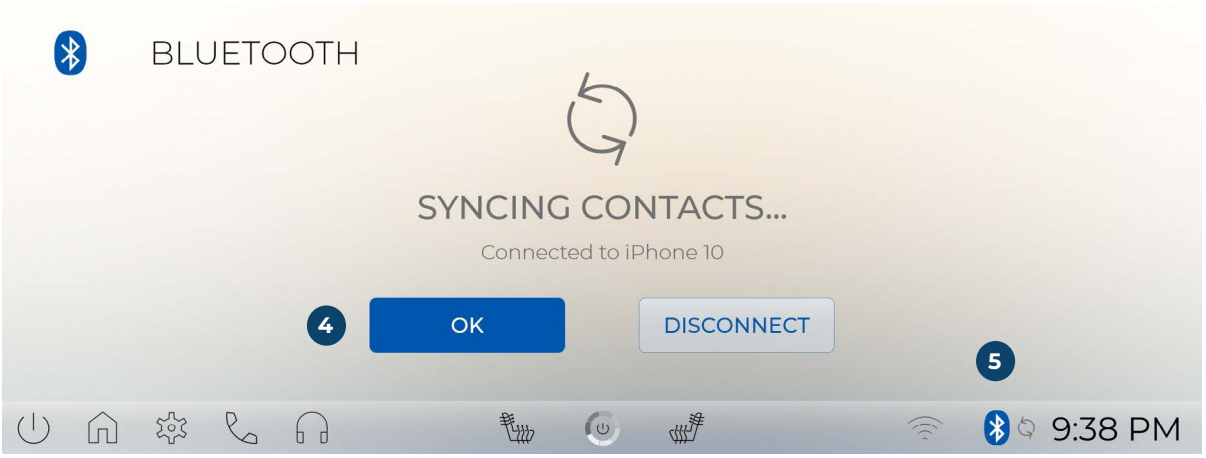


Fig. 4.7

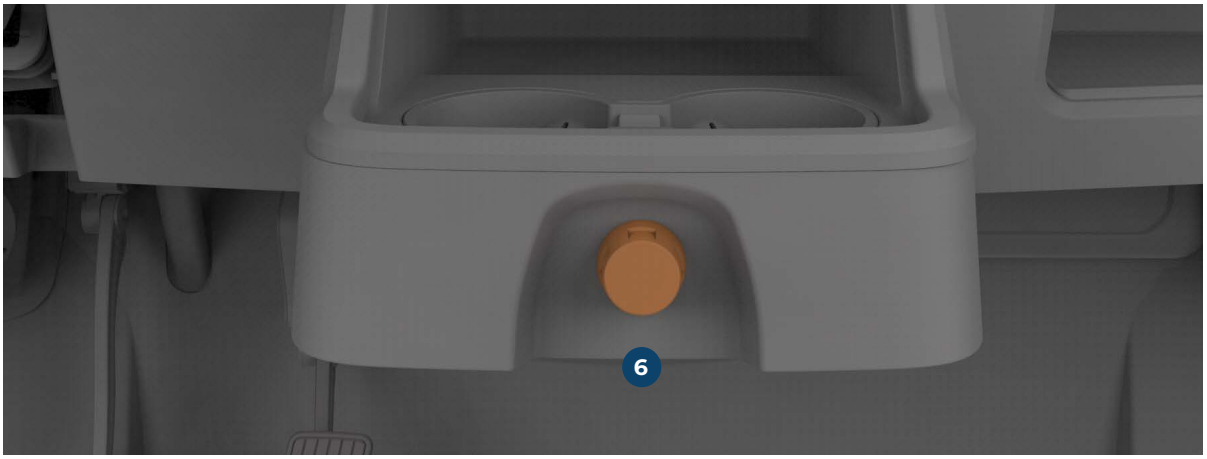


Fig. 4.8

4.4.2 Choose Your Color and Ambience

The 2 speakers located under the dash have customizable RGB LEDs to offer the choice of ambience while driving. There is also a subwoofer located behind your seats for that extra bass.

1. Using the infotainment screen. Press the Light icon. (see fig. 4.9)
2. Press anywhere on the color ring to choose your preferred color. (see fig. 4.9)
3. Press the middle power button to turn the color off. (see fig. 4.7)



Fig. 4.9

4.5 Let's Drive

You are now ready to drive. Let's go!

- Adjust your seats, mirrors and steering wheel to your preference.
- Choose your drive mode. Normal or Sport. What's the difference? Acceleration. Normal mode is for getting you home. Sport mode is for getting to where you want to go.
- To put vehicle in drive pull down on right stalk. To put vehicle in reverse push up on right stalk (see fig. 5.4).
- Enjoy the drive.

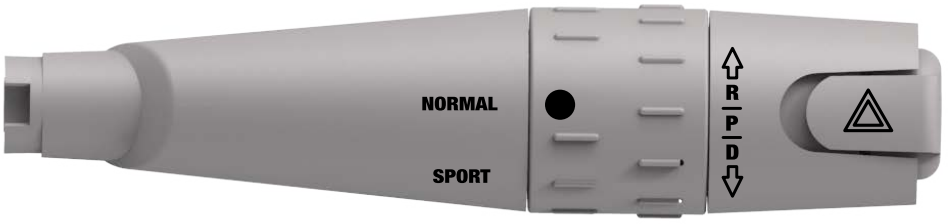


Fig. 4.9.1

4.6 Download the App

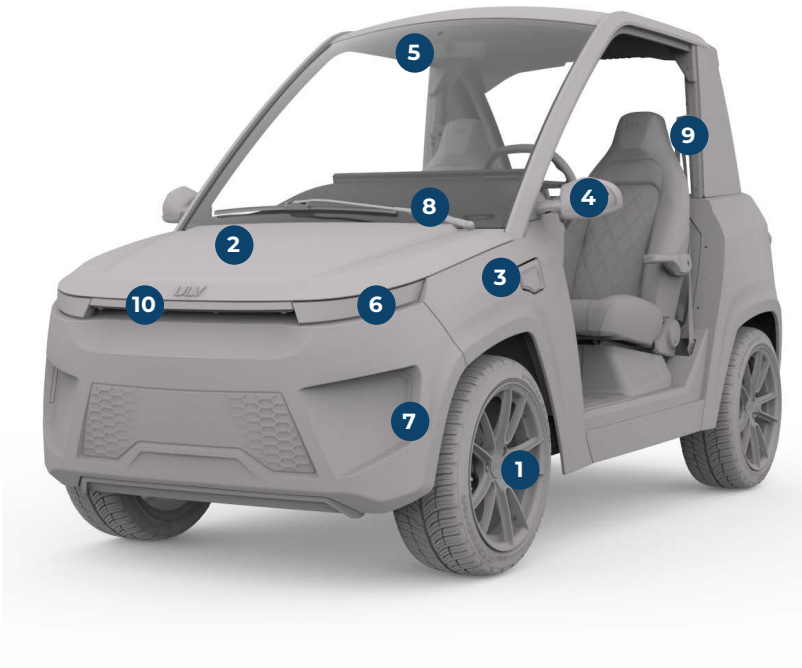
Download the ULV app from your phone's app store (Apple's App Store or Google's Play Store) and complete the sign-up process. If you press the cast button you will find a QR code with a direct link to the app for download.

Follow the instructions in the app to create an account. *Please note: Android users will need to download the app to use the cast features of the infotainment.

GET IT ON Google Play

Download on the app store

5. Outside Vehicle Overview



1. Wheels
2. Hood
3. Charge Port
4. Side Mirrors
5. Rearview Mirror
6. Headlights
7. Accent lights
8. Wiper system
9. Seatbelts
10. Front storage access latch

Fig. 5

1. Tailgate
2. 3rd brake light
3. Access to Hitch
4. Tail lights
5. Tailgate latch
6. Back up camera

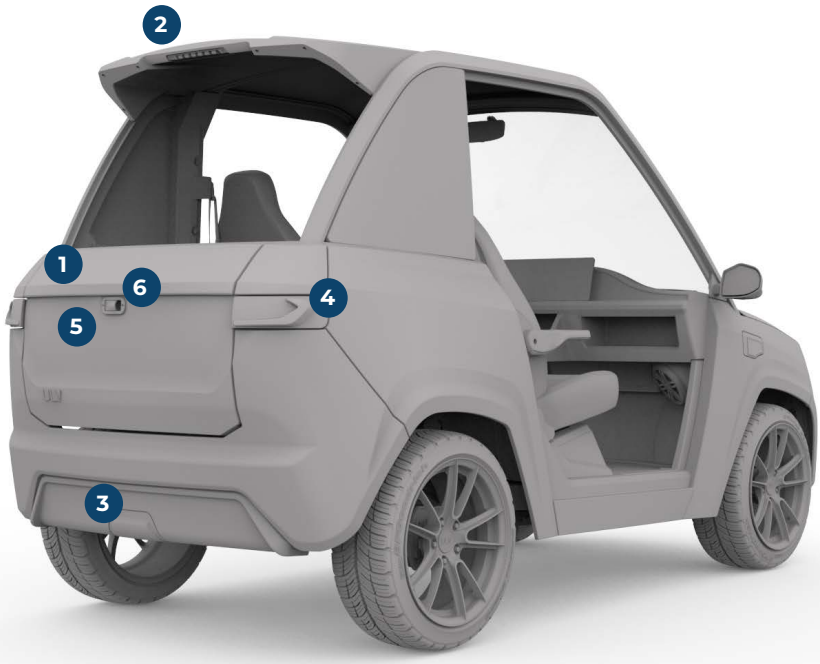


Fig. 5.1

5.1 Interior Vehicle Overview

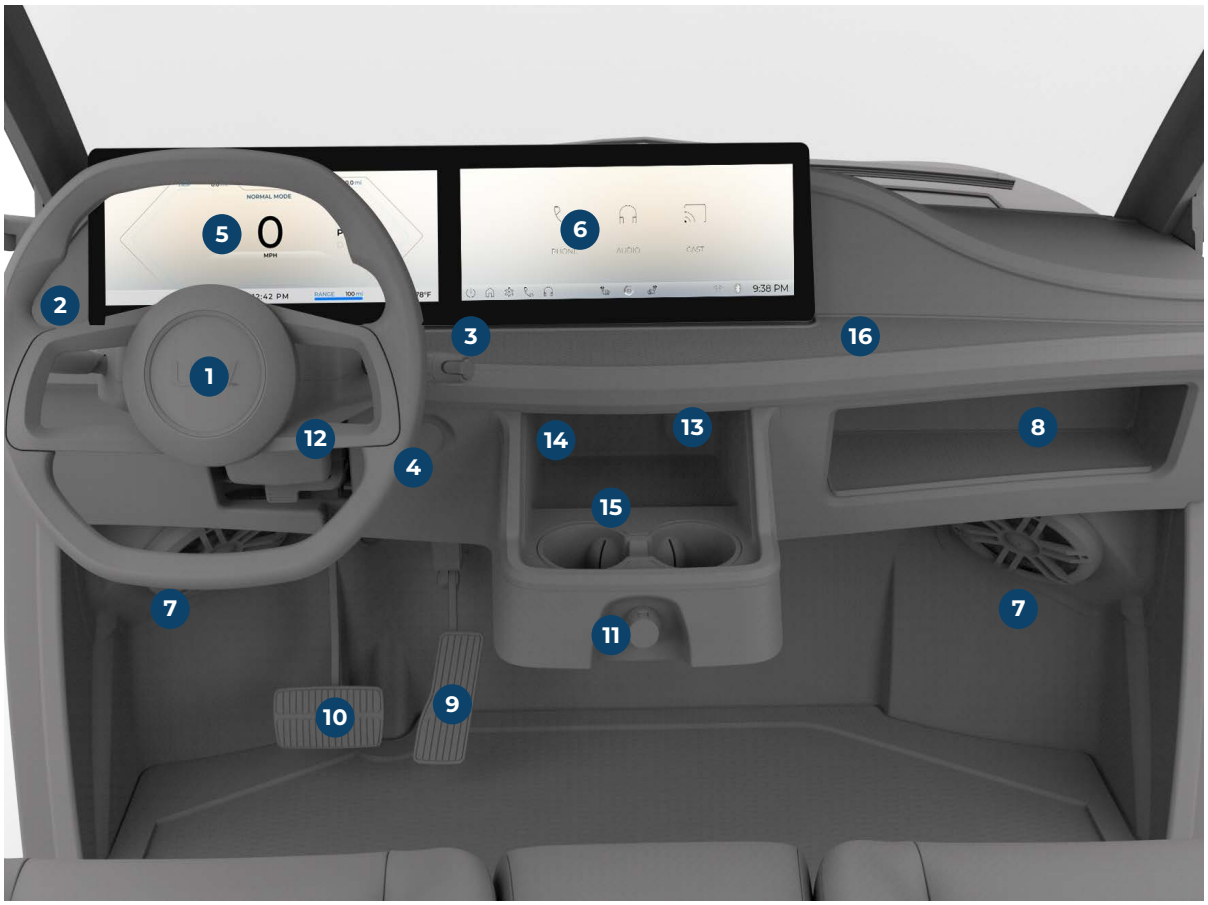


Fig. 5.2

1. Steering Wheel
2. Left Stalk
3. Right Stalk
4. Push to Start Button
5. Instrument Cluster Screen
6. Infotainment Screen
7. Speakers
8. Glove Box
9. Accelarator Pedal
10. Brake Pedal
11. Audio Volume Knob
12. Steering Column Adjustment
13. USB A & C Ports
14. Storage
15. Cup Holders
16. Dash Mat

5.2 Ignition Push To Start

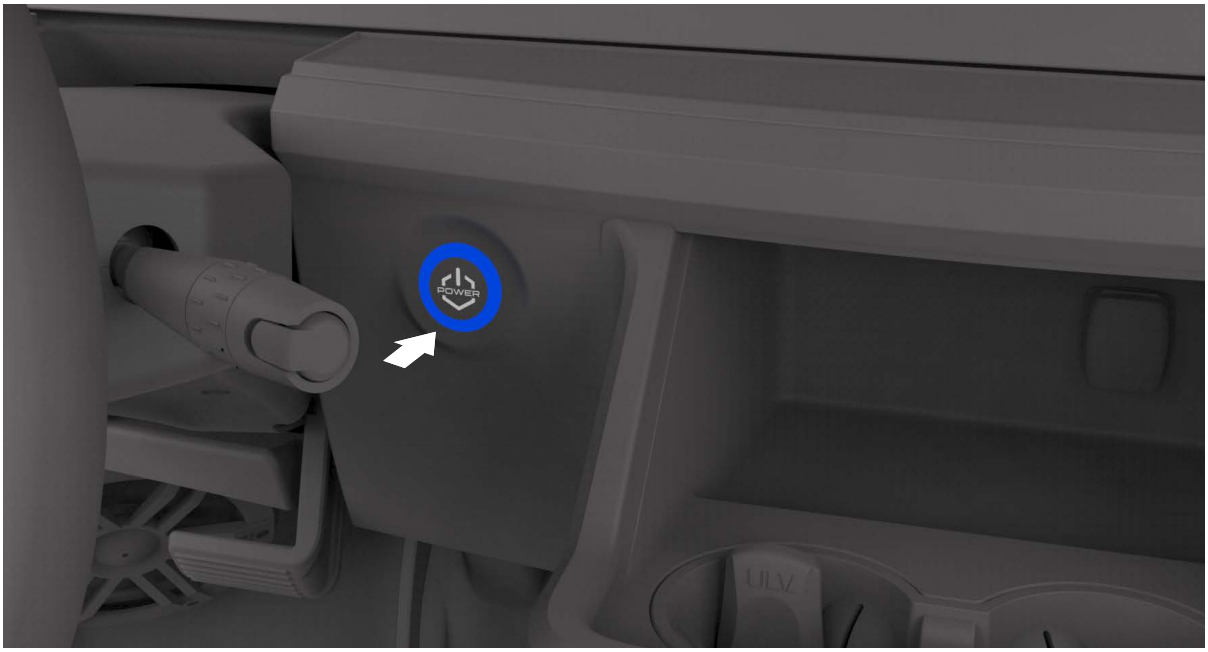


Fig. 5.3

Press the push to start button to start the vehicle.

Fig. 5.3

5.3 Right Side Stalk Controls



Fig. 5.4

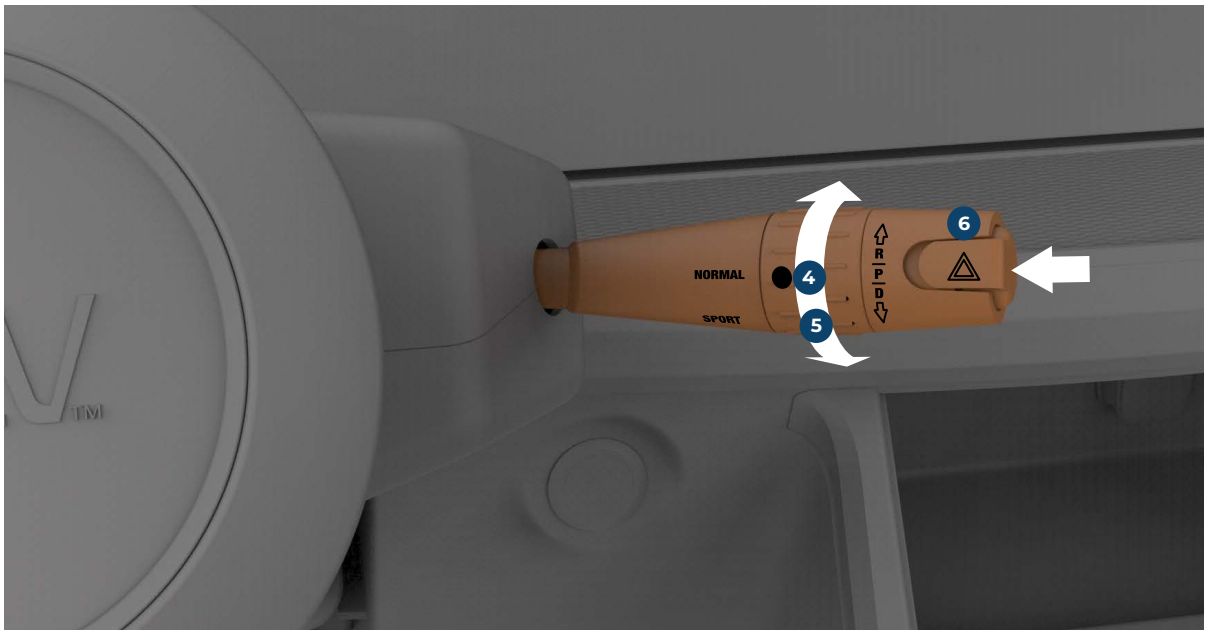


Fig. 5.5

1. Park
2. Drive
3. Reverse
4. Normal Drive Mode
5. Sport Drive Mode
6. Hazard Lights

5.4 Left Side Stalk Controls

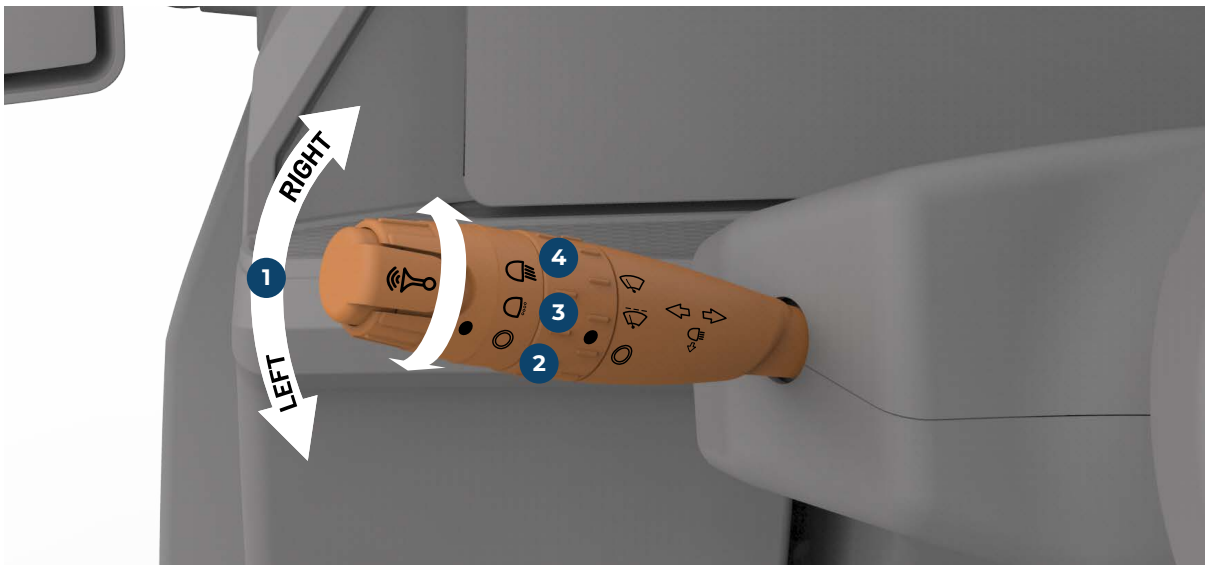


Fig. 5.6

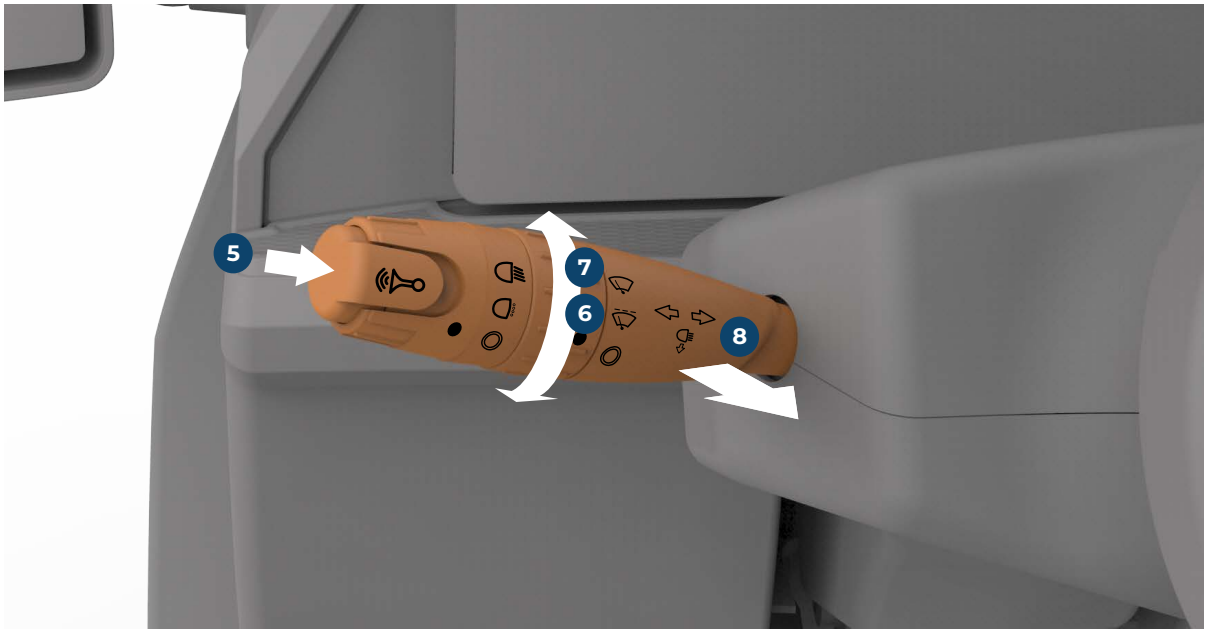


Fig. 5.7

1. Turn signals
2. Lights Off
3. Accent Lights
4. Head Lights
5. Horn
6. Low Wiper
7. High Wiper
8. High Beams

5.5 Seats



Fig. 5.8

1. Forward and back seat adjustments
2. Tilt seat adjustment
3. Middle seat, center armrest adjustment
4. Armrest adjustment

5.6 Steering Wheel

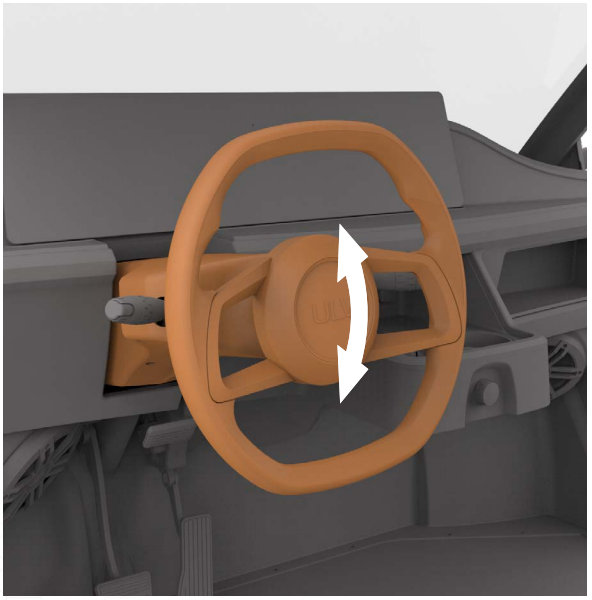


Fig. 5.9

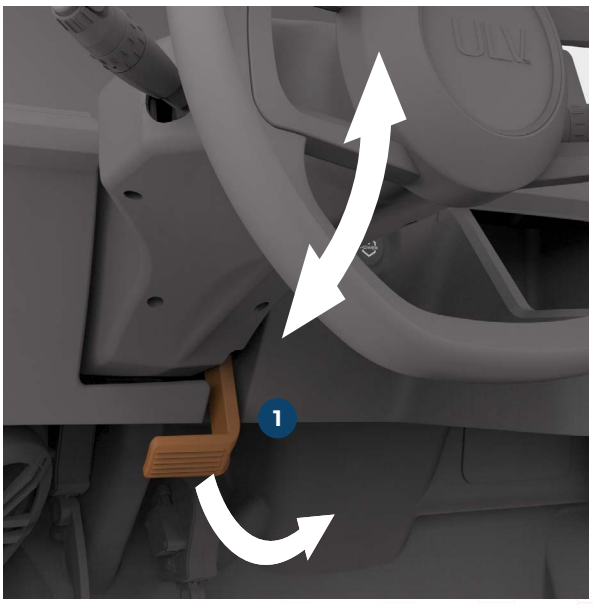


Fig. 5.9.1

1. Pull steering wheel level towards you to adjust steering wheel. Push away steering wheel lever to tighten steering wheel

5.7 Side Mirrors

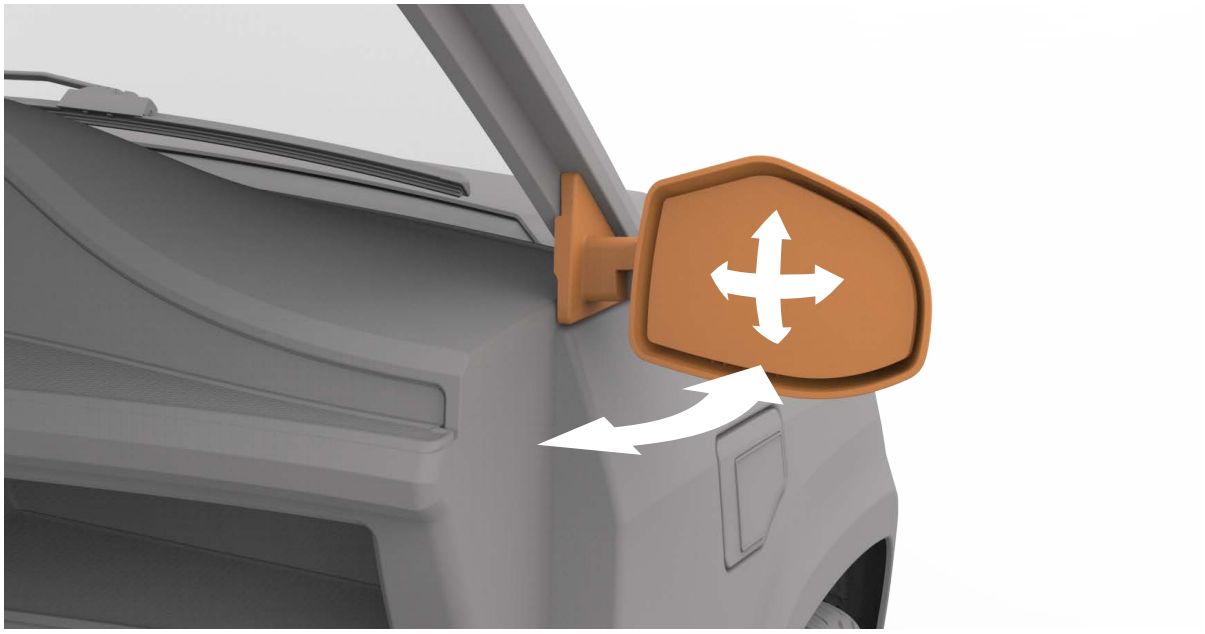


Fig. 5.9.2

5.8 Rearview Mirror

Properly adjust the rearview mirror to maximize your view of the area behind the vehicle. Incorrect adjustment can lead to dangerous traffic situations and potentially cause accidents resulting in severe personal injury, death, or property damage. The mirror is equipped with an anti-glare toggle to reduce headlight glare from vehicles behind you, which you can activate by pushing the lever under the mirror forward. Do not adjust mirrors while driving. This diverts your attention from the road and can create hazardous situations. Always adjust mirrors before starting your journey to ensure optimal visibility and safety.

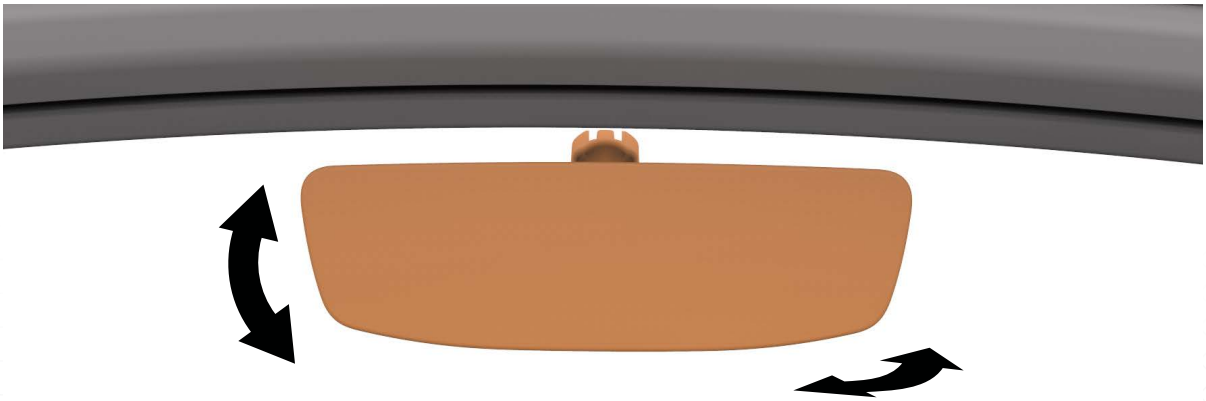


Fig. 5.9.3

5.8.1 Garage Door Button Operation

This mirror is equipped with HomeLink™, a programmable transmitter for operating garage doors, security gates, and more.

5.8.1.1 HomeLink Quick Reference Guide

Your mirror also comes integrated with HomeLink, powered by a non-serviceable, long-life, lithium metal battery. The HomeLink wireless control system provides a convenient way to replace up to three handheld radio frequency remotes used to activate devices such as gate operators, garage door openers, entry door locks, security systems, and even home lighting.

5.8.1.2 Programming a HomeLink Button

Generic programming steps for HomeLink™ can be found below; for Genie and Sommer garage door openers please go directly to the HomeLink website.

Additional information and programming videos can be found at www.HomeLink. com, www.youtube.com/HomeLinkGentex, by scanning the QR code or by calling the toll-free HomeLink-hotline at 1-800-355-3515.

1. Before programming, press the HomeLink buttons (1,2, or 3) you would like to program and observe the indicator light. The indicator light will flash slowly if ready to program. If not, refer to "Erasing HomeLink Buttons".



Fig. 5.9.4

2. Position the handheld remote (garage door opener) 1-3 inches (2-8 cm) away from the HomeLink button you would like to program.

3. While the HomeLink indicator light is flashing slowly, press and hold the handheld remote (garage door opener remote) button until the HomeLink indicator light begins to flash rapidly or remains solid.

4. Press and release your trained HomeLink button.

5. a. If the indicator light is solid/continuous, programming is complete, and pressing the trained HomeLink button should now activate your garage door.

5. b. If the indicator light blinks rapidly, proceed to step 6.

6. At the garage door opener motor, (security gate motor, etc...) locate the "learn", "smart", or "program" button. Press and release the button. Once the button is pressed, there are 30 seconds in which to complete the next step.

5.9 Front Storage

1. To unlock the front storage. Locate the hood unlock button under the hood (see fig 5.9.5).
2. LED Illumination Strip (see fig 5.9.6).
3. Front storage is removable but the LED strip must be unplugged before removal (see fig 5.9.7).
4. LED strip plug is located in the front of the storage (see fig 5.9.8).



Fig. 5.9.5

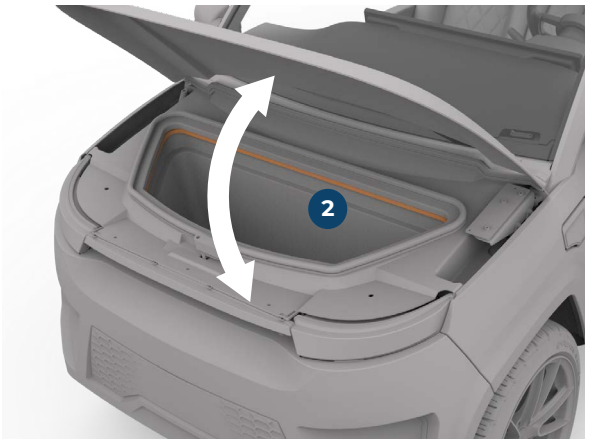


Fig. 5.9.6



Fig. 5.9.7



Fig. 5.9.8

5.10 Rear Storage

All ULV models have dual layer storage behind the tailgate. Remove the rear storage shelf to reveal the bottom layer for added cargo space.



Fig. 5.9.9



Fig. 5.9.9.1

5.11 Sound System

All ULV models come equipped with factory installed Rockford Fosgate speakers and subwoofers that are rated for outdoor use. 2 speakers are located under the dash and a subwoofer behind the seats.

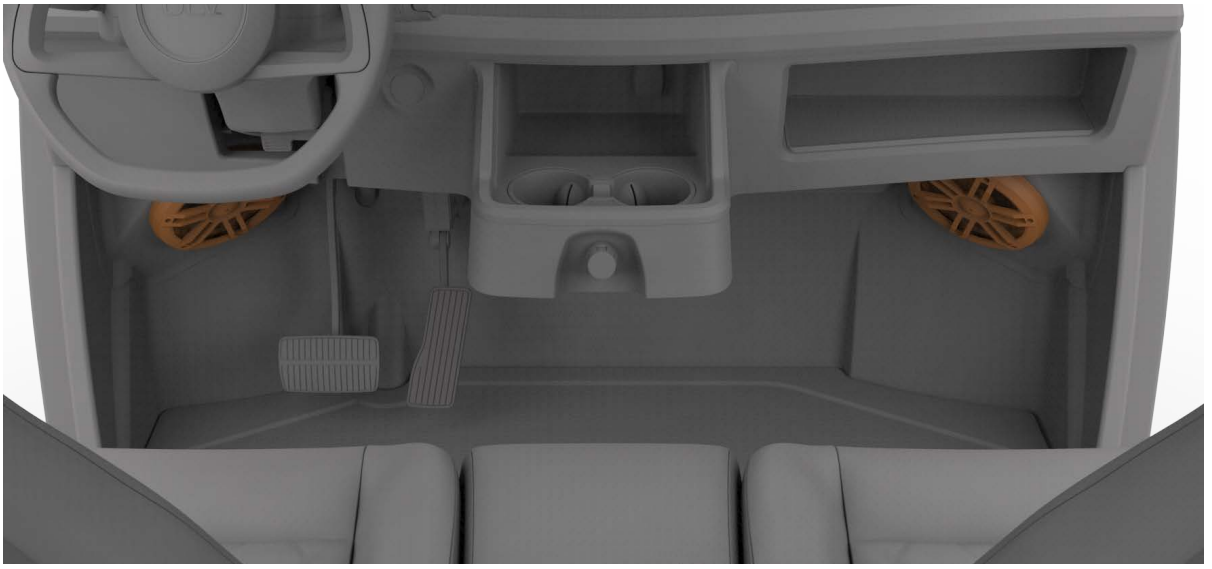


Fig. 5.9.9.2

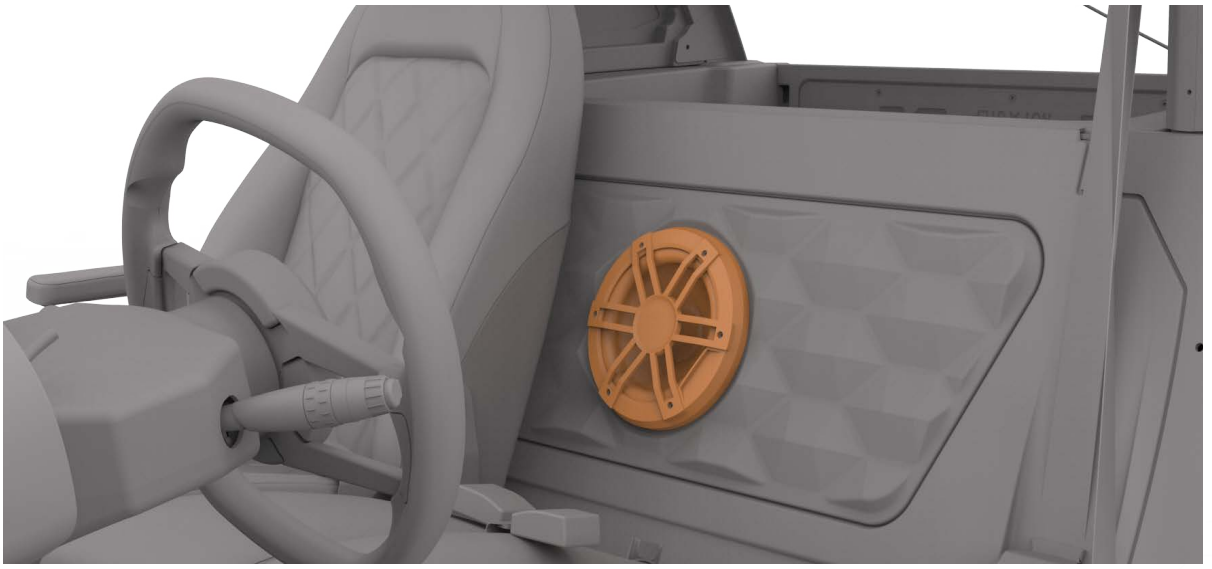


Fig. 5.9.9.3

6. Basic Driving Operations

Low-speed vehicles (LSVs) are electric vehicles designed for use on roads with speed limits up to 35 mph (see your local regulations). When driving an LSV, it's important to adhere to specific regulations and safety guidelines. These vehicles must not exceed a maximum speed of 25 mph and cannot carry passengers under eight years of age. Drivers must possess a valid A, B, C, D, E, F, or G license. It's crucial to be aware of the vehicle's limitations, including its restricted speed and the fact that it may have fewer safety features compared to standard passenger cars. Always drive cautiously, especially when crossing intersections, and be mindful of the vehicle's ground clearance to avoid potential damage to the undercarriage.

6.1 Accelerating & Driving

1. Push the start button to turn vehicle on and initiate the driving system.
2. Select the drive mode you wish (Normal or Sport).
3. Choose drive or reverse.
4. Press the accelerator pedal to move forward or reverse.

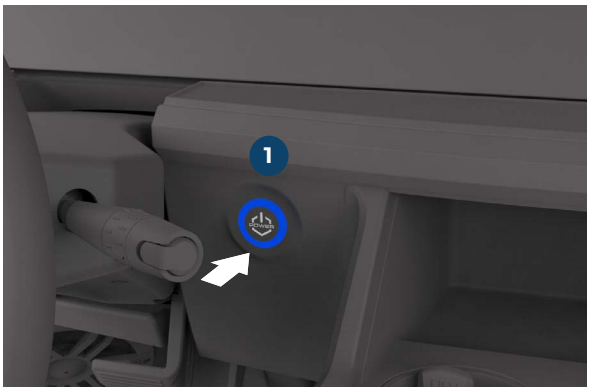


Fig. 6

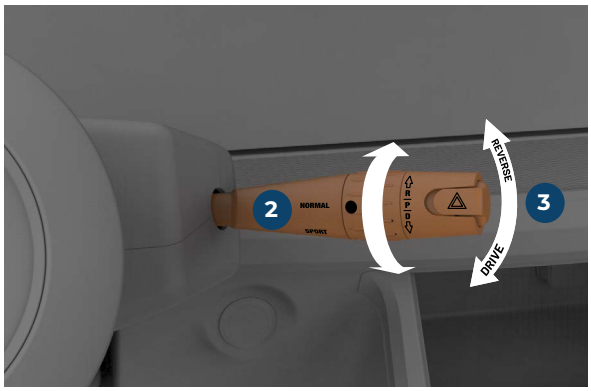


Fig. 6.1

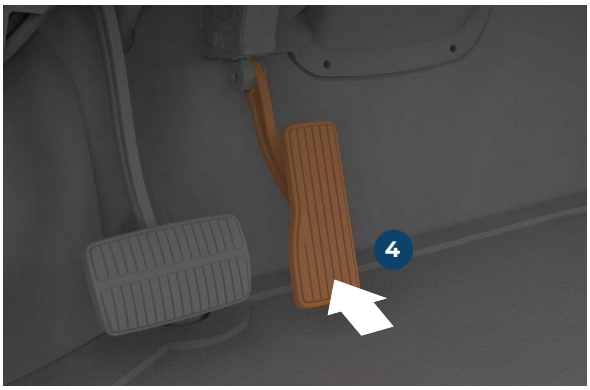


Fig. 6.2

Before moving the vehicle, ensure that no people or objects are in its path. Gently press the accelerator pedal to begin moving, and always accelerate with caution.

6.1.1 Drive Modes

1. Normal drive mode offers better overall battery efficiency and range with a decrease in acceleration.

2. Sport drive mode offers quicker acceleration but has a reduced range per charge.

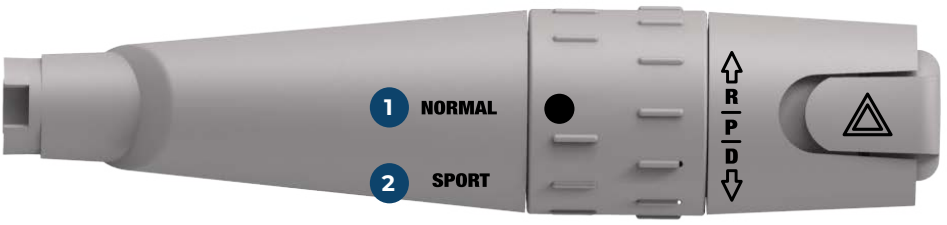


Fig. 6.3

WARNING

Never bring vehicle to a halt while using the accelerator. Always use brakes to prevent the vehicle from moving.

6.2 Stopping & Braking

To brake or stop the vehicle, press the brake pedal gently, and the vehicle will come to a smooth halt.

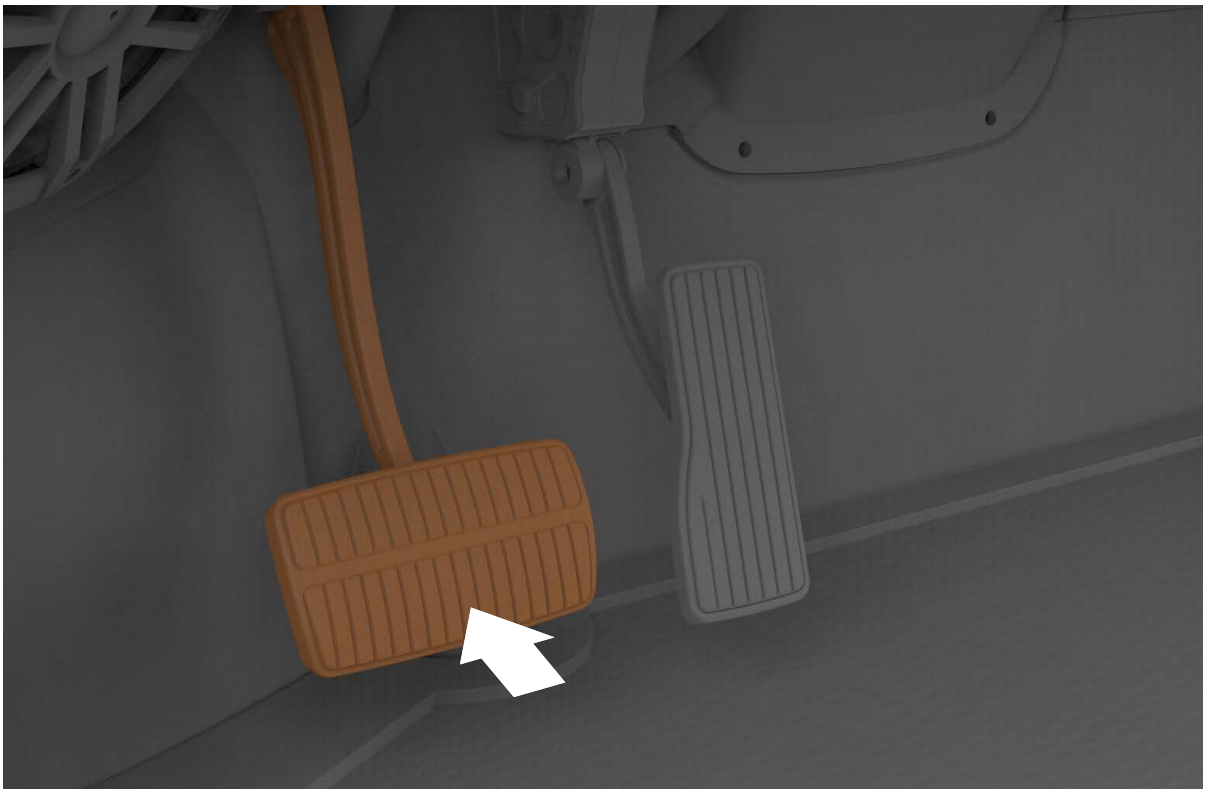


Fig. 6.4

⚠ WARNING

Any damage or malfunction on the braking system can result in severe injury or death. Always make sure that the brakes are fully functioning.

6.3 Rough Terrain Driving

Always exercise the utmost caution when driving on rough terrain. The vehicle has a ground clearance of 7.5inches, so it is essential to drive slowly and remain prepared to stop at any moment. Rough terrain can pose risks that may damage the vehicle, so approach such conditions with extreme care. Avoid driving in hilly areas or at steep angles, as the vehicle's weight distribution may cause it to tip unexpectedly when placed at excessive inclines. Keep in mind that this vehicle is not designed for rough terrain use, and such driving should be avoided whenever possible.

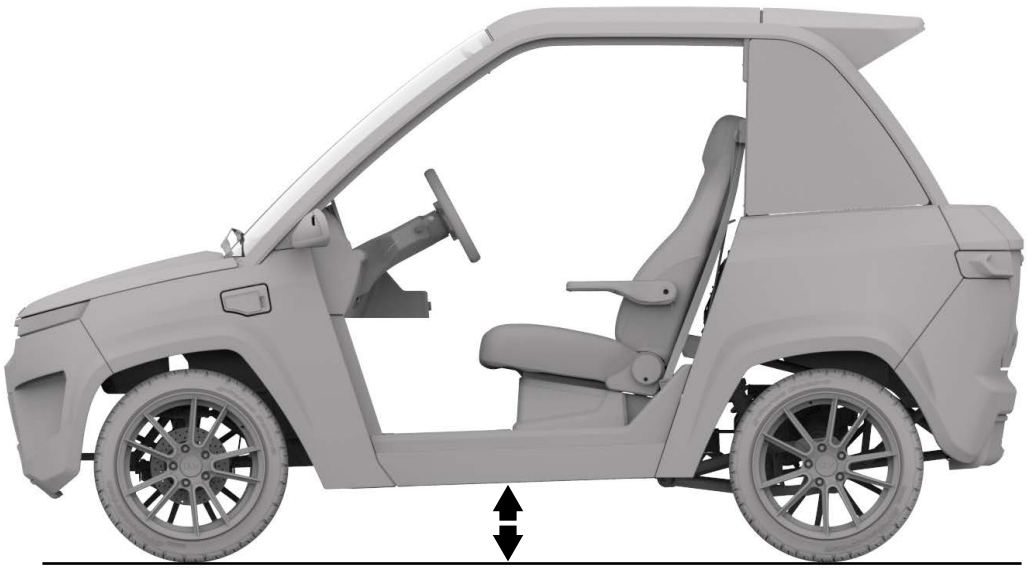


Fig. 6.5

6.4 Push to Start Button LED Colors

The push to start button can communicate with the user by indicating specific colors for certain scenarios in regards to the key fob and the ability to drive the vehicle.



Vehicle is off and no Keyfob is present within range. No LED is visible. If no Keyfob is present the vehicle cannot start.



Vehicle is off and no Keyfob is present within range and the user presses the button, the button will show a red LED.



Vehicle is off and Keyfob is in range. The power button LED will pulse blue to show the vehicle is connected and ready to power on.



When the button is pressed and the vehicle is on, the button will show a solid blue LED.

7. Cluster and Infotainment Overview

This dual-screen car interior is a cutting-edge feature that enhances both functionality and aesthetics, offering drivers and passengers a premium in-cabin experience. This setup includes two integrated displays: an instrument cluster screen for essential driving information like speed, charge, range information and alerts, plus a central infotainment touch-screen for multimedia, heated seats, and other vehicle functions.



Fig. 7

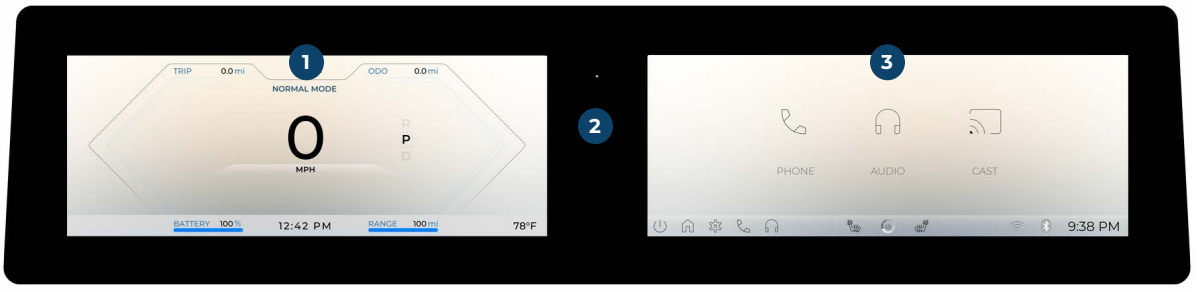


Fig. 7.1

1. Instrument Cluster Screen
2. Microphone
3. Infotainment Touch Screen

7.1 Instrument Cluster Layout

ULV has designed an innovative digital instrument cluster that puts driver convenience and efficiency front and center. The cluster features a vibrant, customizable screen display that shows real-time battery charge, estimated driving range, and energy consumption with intuitive graphics.

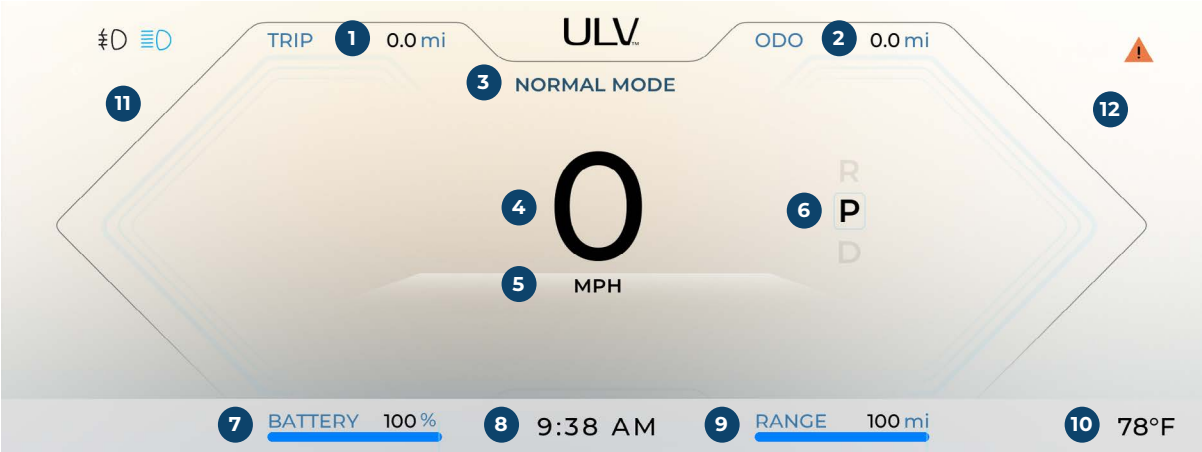


Fig. 7.2

1. Trip Meter
2. Odometer
3. Driving Mode
4. Speed
5. Speed Units
6. Gear Position
7. Battery Charge
8. Clock
9. Range
10. Ambient Temparature
11. Lights
12. Warning Light

7.2 Infotainment Layout

ULV's touchscreen infotainment system is a central feature in our vehicles, blending information, entertainment, and connectivity to enhance the driving experience. Our system consists of a high-resolution touchscreen that serves as the primary interface for controlling various vehicle functions. GPS navigation (through casting), music streaming, and hands-free calling.

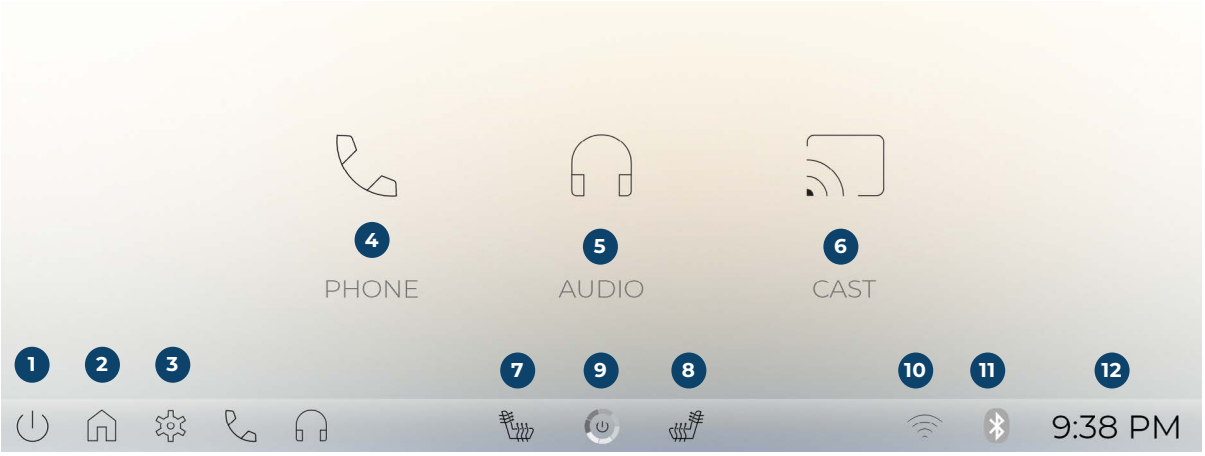


Fig. 7.2.1

1. Do not Disturb / Mute
2. Home
3. Settings
4. Phone - Paired In Use
5. Audio
6. Phone Cast
7. Driver Heated Seat
8. Passenger Heated Seat
9. Ambient Color Wheel
10. Wifi
11. Bluetooth
12. Clock

7.2.1 Screen Settings

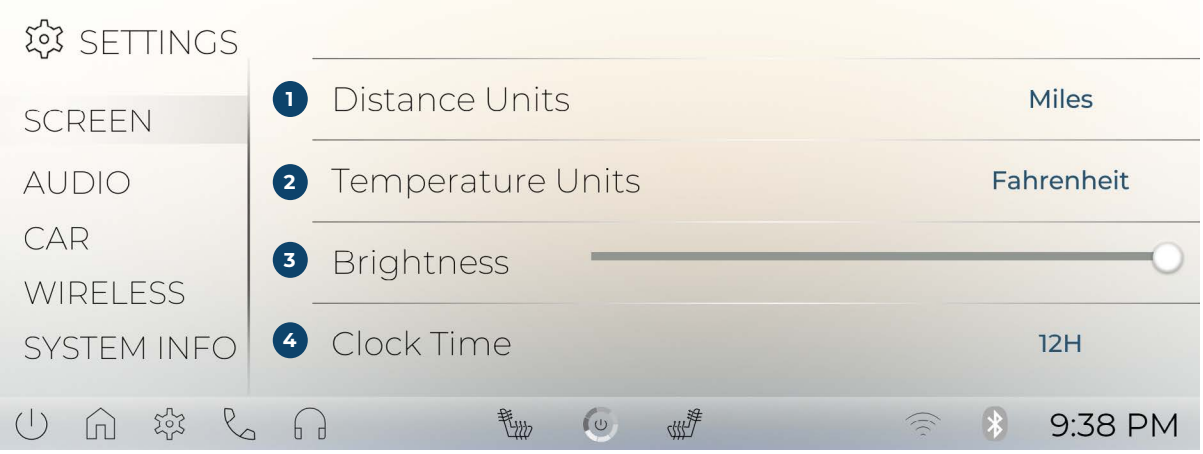


Fig. 7.2.2

1. Distance Units
2. Temperature Units
3. Brightness Adjustment
4. Clock Display Type

7.2.3 Audio Settings

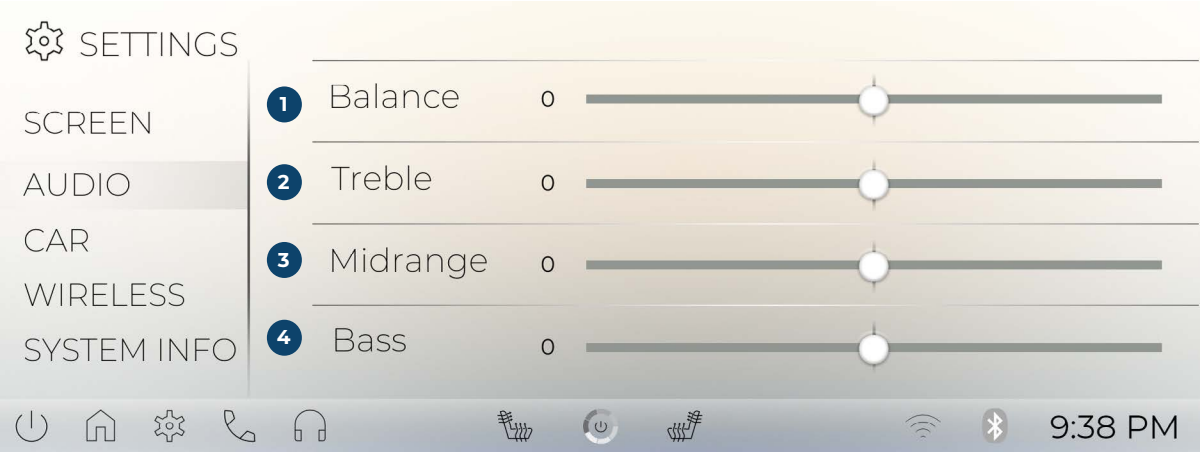


Fig. 7.2.3

1. Balance
2. Treble
3. Midrange
4. Bass

7.2.4 Car Settings



Fig. 7.2.4

1. Trip Odometer / Reset
2. Day / Night Mode Switch
3. Auto Night-Mode

7.2.5 Wireless Settings

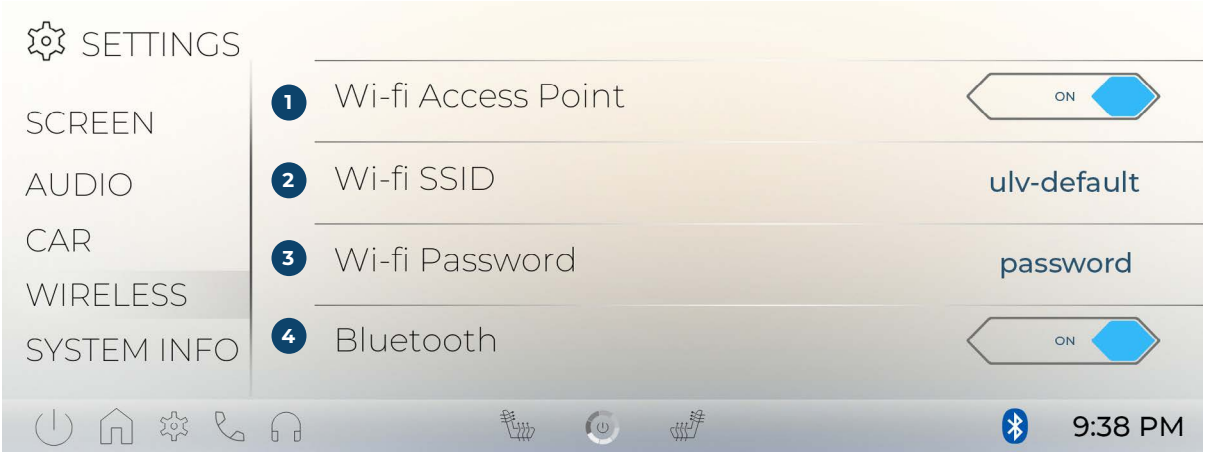


Fig. 7.2.5

1. Wifi Access Point On / Off
2. Wifi SSID Info
3. Wifi Password Info
4. Bluetooth On / Off

7.2.6 System Info



Fig. 7.2.6

1. Software Info
2. Battery Info

7.2.7 Battery Charging Info

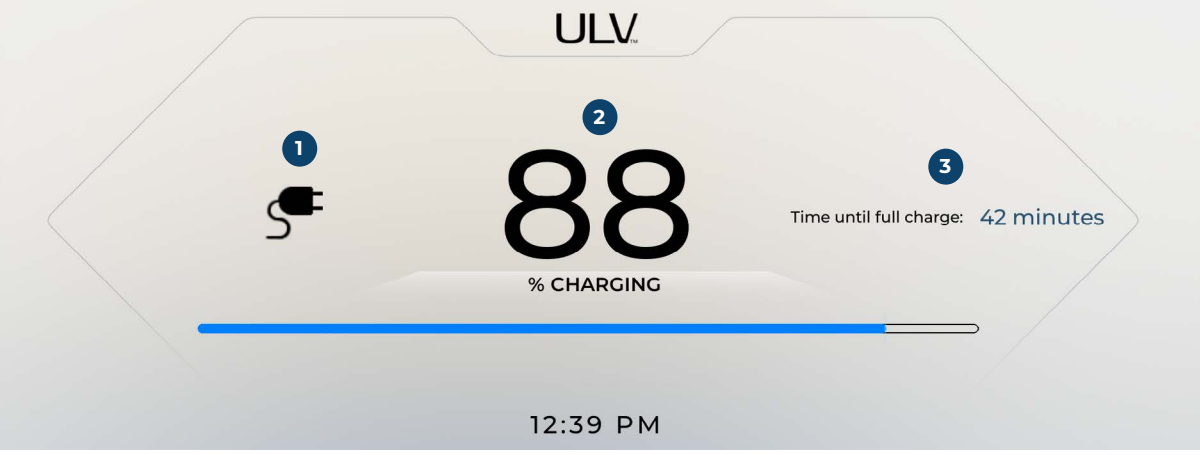


Fig. 7.2.7

1. Charging Plug Indicator
2. Battery Charge
3. Time Till Full Charge

7.3 Pairing Your Phone Using Bluetooth

1. Using the infotainment screen. Press the Bluetooth icon (see fig 7.3).
2. Press the "Pair new Device" + Button. (see fig 7.3.1)
3. Wait for your vehicle and your phone to make a connection.
4. Confirm the pairing on your phone. Choose if you'd like to sync your contacts (see fig 7.3.3).
5. The icon on the infotainment will change to blue to show the device is connected (see fig 7.3.3).
6. Choose your favorite music phone app and turn up the volume on the console (see fig 4.8). (if no sound, ensure your phone volume is turned up)

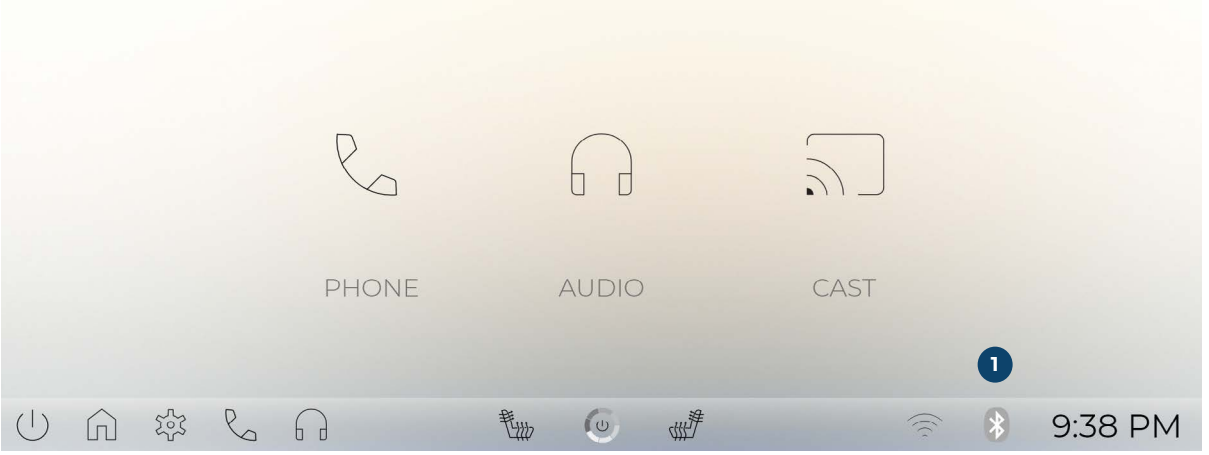


Fig. 7.3



Fig. 7.3.1



Fig. 7.3.2

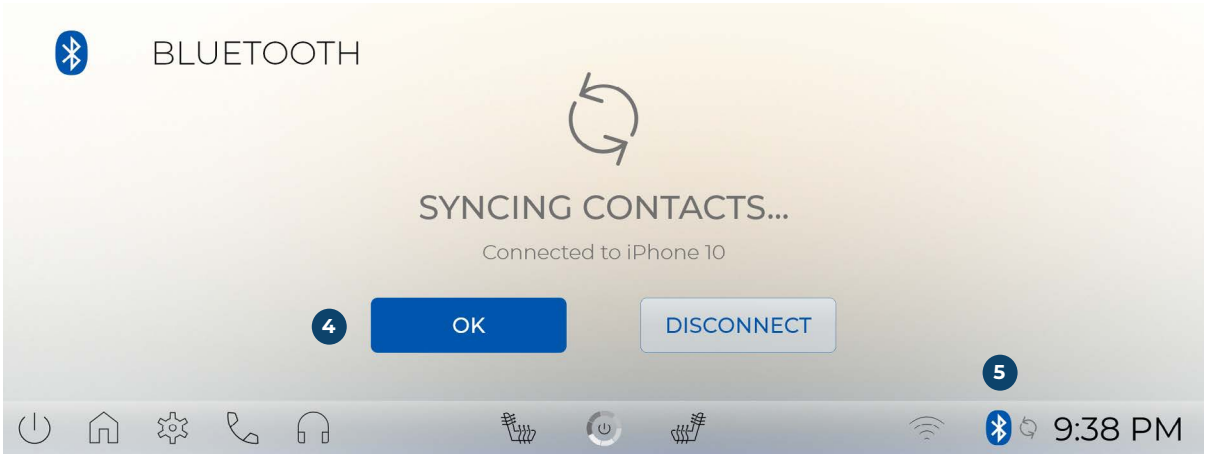


Fig. 7.3.3

7.4 Unpairing Your Phone from Bluetooth

1. Disconnect from the infotainment by pressing on the Bluetooth icon to display the connected devices list and selecting your device. Press unpair.

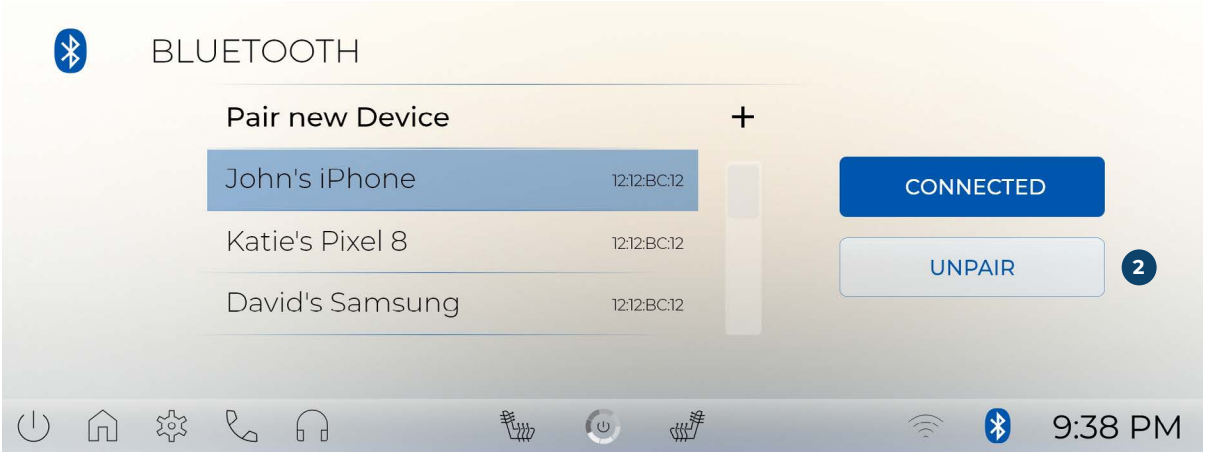


Fig. 7.4

7.5 Streaming Audio

1. Make sure your phone is connected to the vehicle before attempting to play any audio from your phone.
2. Use your favorite app to stream music using Bluetooth®
3. The audio button Music information will be displayed in the audio section of your Infotainment screen.

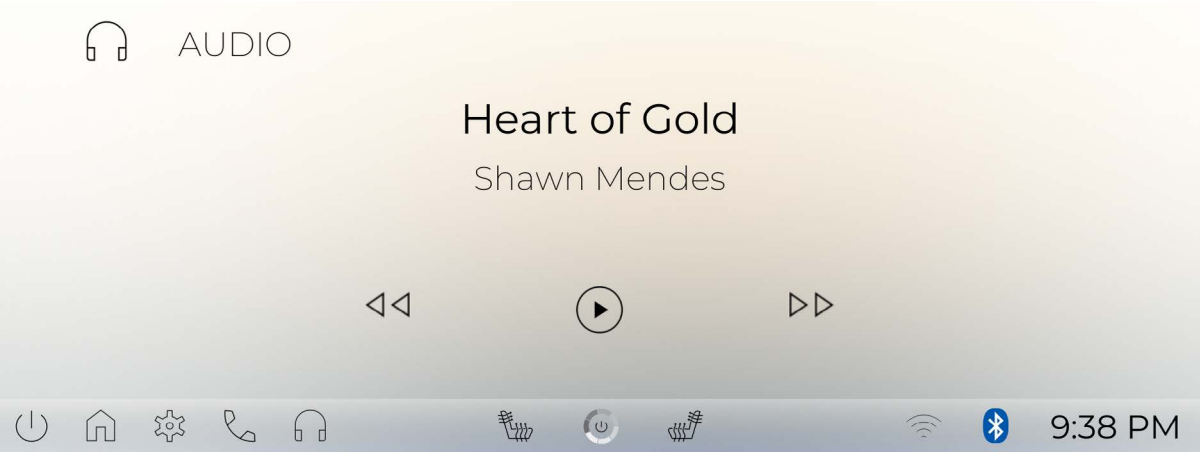


Fig. 7.5

7.6 Making Phone Calls

1. Press the phone button to display the the in-vehicle phone option.
2. You can access your list of your most recent contacts under the recents button as well as your full list of contacts above the phone keypad.
3. Use the phone keypad to dial a number and then press the phone button to send the call.
4. To the end a call, press the end call button.
5. To mute your phone during the call, press the mute button.

7.7 Connecting To Your Vehicle's Wifi

1. Open your phone
2. Go to your wifi connection screen
3. Select your vehicle's SSID
4. Enter the password for your vehicle's SSID and click connect

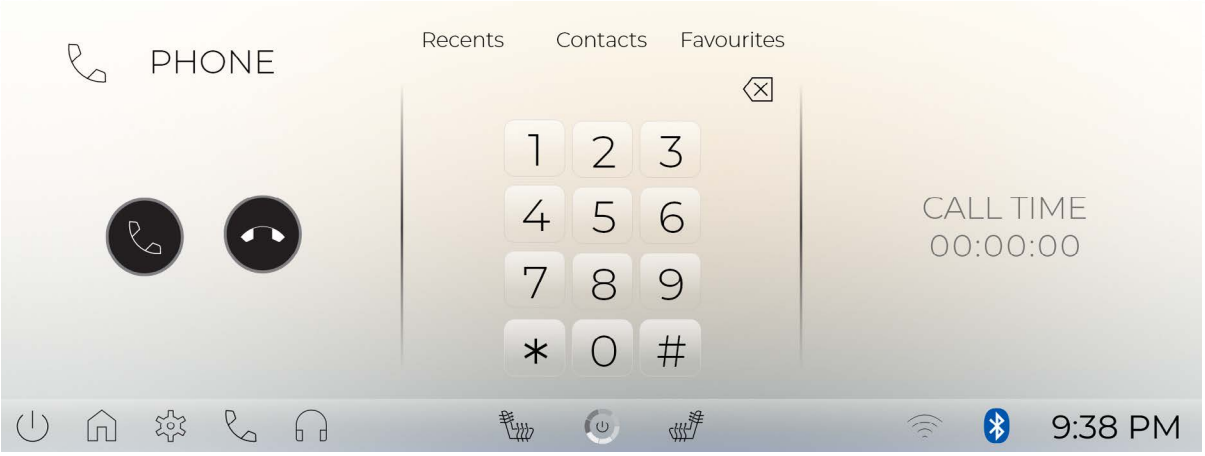


Fig. 7.6

7.8 ULV Phone App

Download the driveULV app from your phone's app store and follow the instructions below. If you press the cast button you will find a QR barcode with a direct link to the app for download.

1. Follow the instructions in the app to create an account. Android users will need to download the app to use the cast features of the infotainment.
2. *Note: You do not need to have the driveULV app installed on your phone to connect via bluetooth.

7.9 Casting Your Phone

Casting your phone to your ULV infotainment screen allows you to view your apps to a larger screen. You can cast in both landscape and portrait mode.

*Note: Casting your phone to the infotainment screen does not allow you to use the infotainment touchscreen to interact with your phone's apps. Think of it like casting to your television. You can cast what is on your device's screen, but you cannot press the buttons, pinch to zoom or use the keyboard to search on the infotainment screen.

7.9.1 Casting with iPhone



Fig. 7.7

1. Connect your iPhone or iPad to the same Wi-Fi network as your ULV.
2. Open Control Center
3. Swipe down from the upper-right corner of the screen.
4. On iPhone 8 or earlier or iOS 11 or earlier: Swipe up from the bottom edge of the screen.
5. Tap the Screen Mirroring button
6. Tap ULV

7.9.2 Casting with Android

1. Open the driveULV app on your phone (make sure you are connected to the vehicle).
2. Press the Cast button on the bottom navigation bar.
3. Press the Start Casting button.
4. Choose either a specific app or your whole screen to cast.



Fig. 7.8

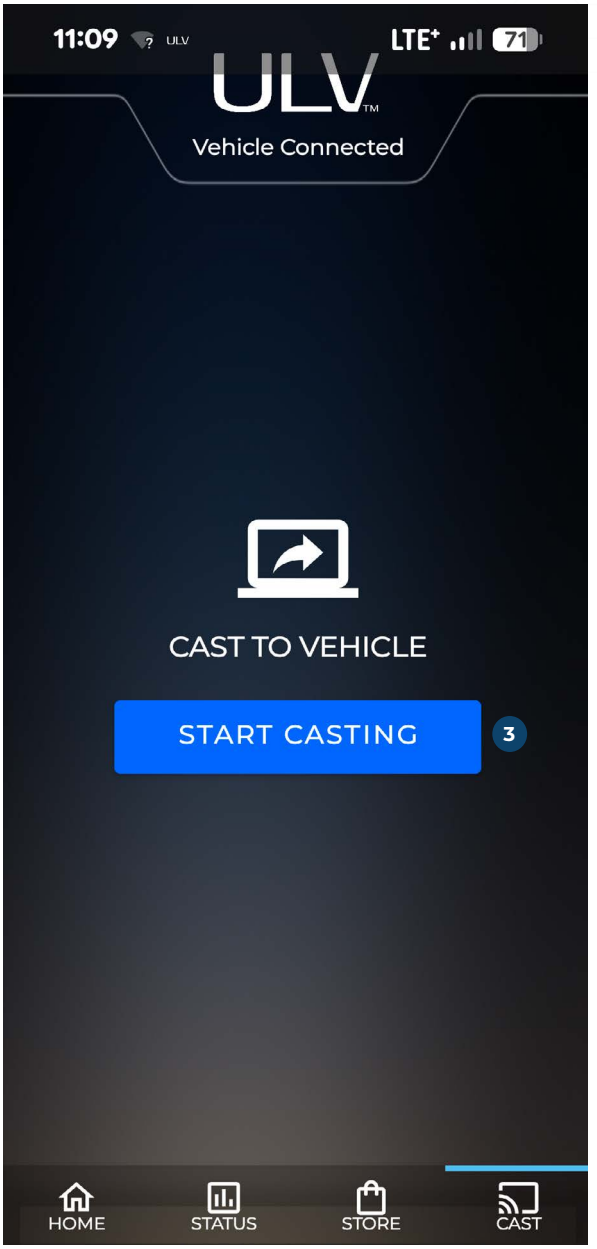


Fig. 7.8.1

7.9.3 Heated Seats

Each ULV comes standard with heated marine grade vinyl seats. Touch the heated seat buttons to toggle your heated seat.

7.9.4 Speaker Lights / Vehicle Ambience

Your ULV has a factory installed Rockford Fosgate sound system which consists of 2 under the dash LED speakers and subwoofer located behind the seats.

1. To control the color of the speaker LED lights, press the light button.
2. Select your preferred ambience by tapping the color on the wheel. You will see the color change on your speakers in real time.



Fig. 7.9

7.9.5 Digital Clock

Your ULV can display either a digital or analog clock as a whole screen when there is no need to display any other options.

1.To display full screen clock view, press the power button in the bottom left corner of the nav bar.***Note this will disconnect your bluetooth (audio, casting)**

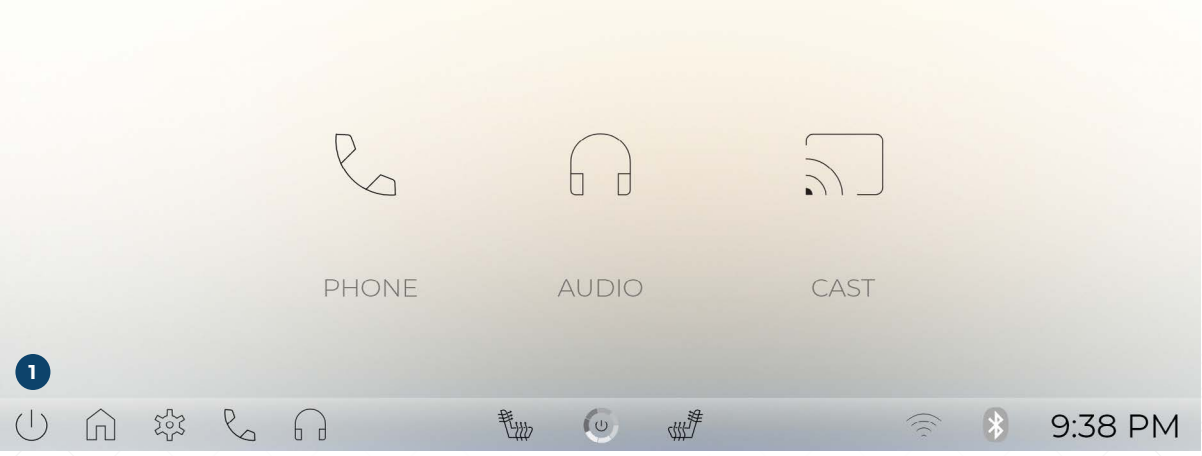


Fig. 7.9.1



Fig. 7.9.1

Tap the clock to toggle between digital and analog view.



Fig. 7.9.2

7.9.6 Change the time on your display clock

1. To change the time on your vehicle clock, press the displayed time in the bottom right nav bar.
2. Press the contextual pop-up menu and choose “set time” or “change format”.
3. “Change format” changes your digital clock between 24hr format or 12hr format
4. Set the correct time by pressing the up ^ and down v arrows on the corresponding areas (Hour, Minute, AM/PM)

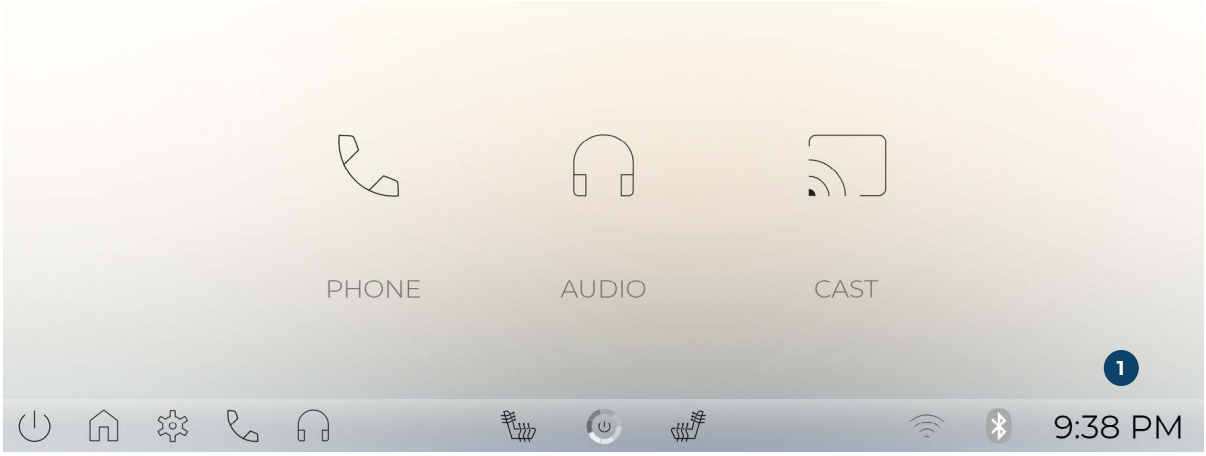


Fig. 7.9.3

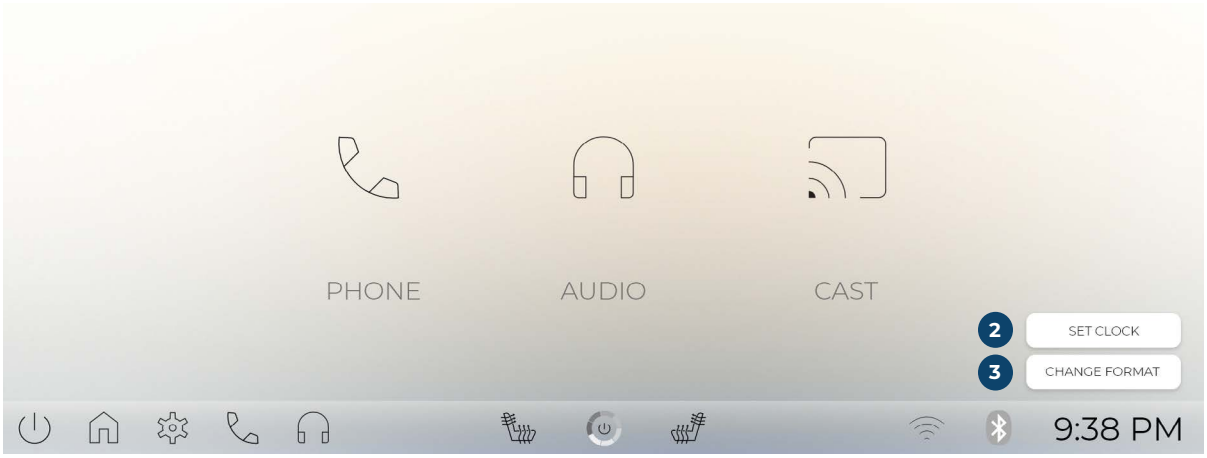


Fig. 7.9.4



Fig. 7.9.5

8. Precautions When Maintaining the Vehicle

When maintaining the vehicle, it is essential to follow all safety precautions outlined in the owners manual. Pay special attention to the following guidelines:

- Confirm the vehicle is turned off.
- Ensure the vehicle is properly secured and cannot move during maintenance.
- Verify that the vehicle has the correct lifting support before performing any repairs or maintenance.
- Take precautions to avoid fire hazards and ensure that appropriate fire extinguishing equipment is readily available.
- Confirm that all warning and information labels are legible. If any labels need replacement to meet safety standards, consult a qualified repair shop. It is recommended that maintenance be performed by an Authorized ULV Service Dealer.

Proper maintenance is crucial for the safe operation of the vehicle. Key points to remember:

- Safety-Critical Components: Regularly maintain all components that impact safety and vehicle operation. Pay particular attention to the brakes, steering system, and seatbelts.
- Documentation: Accurately complete all maintenance service checks and record these checks in the provided Warranty and Service book.

By following these guidelines, you help ensure the vehicle remains safe and reliable for operation.

8.1 Service

To maintain your ULV in optimal condition and ensure it consistently meets the highest standards, ULV has developed a specialized service program.

8.2 Service Intervals

ULV has developed a specialized service program designed to maintain the vehicle's high standards. Adhering to the following service intervals is essential to uphold the warranty. Detailed maintenance instructions are provided in the following pages of the user manual.

8.2 Service Actions

=Check	Daily	Weekly	Monthly	Description
Activity:				
CHECK TIRES	✓			EXAMINE FOR CUTS, TIRE THREAD, TIRE PRESSURE
GENERAL VEHICLE CONDITION	✓			DEFECTS AND DAMAGE
WIPER FUNCTION	✓			FULL TRAVEL IS DISPLAYED
AVAS OPERATION	✓			EMITS SOUND IN FORWARD AND REVERSE
FUNCTIONALITY OF LIGHTS	✓			HEADLIGHTS, ACCENT LIGHTS, TAIL LIGHTS
PEDAL TRAVEL	✓			BRAKE AND ACCELERATOR PEDALS
LEFT AND RIGHT STALK FUNCTIONALITY	✓			PROPER FUNTION BASED ON INPUT
WHEELS		✓		CHECK FOR MISSING OR LOOSE LUG NUTS
BATTERIES		✓		CHECK CHARGE AND ALL CONNECTIONS
TIE ROD/LINKAGES		✓		CHECK FOR EXCESIVE PLAY, LOOSE OR BROKEN COMPONENTS
BRAKE FLUID LEVEL		✓		CHECK FLUID LEVEL
STEERING ASSEMBLY		✓		CHECK FOR EXCESIVE PLAY
WIRING		✓		CHECK FOR LOOSE CONNECTIONS AND MISSING INSULATION
FRONT SUSPENSION			✓	CHECK FOR DAMAGE OR MISSING COMPONENTS
REAR SUSPENSION			✓	CHECK FOR DAMAGE OR MISSING COMPONENTS
LOWER A-ARMS			✓	CHECK FOR DAMAGE OR MISSING COMPONENTS
UPPER A-ARMS			✓	CHECK FOR DAMAGE OR MISSING COMPONENTS
TOE-IN ALIGNMENT			✓	CHECK TOE ALIGNMENT
BREAK LINES			✓	CHECK FOR LEAKS IN BREAK LINES
FRONT DISC BRAKES			✓	CHECK FOR EXCESIVE WEAR AND LOW PAD THICKNESS
EM-BRAKE			✓	ENSURE FUNCTIONALITY OF EM-BRAKE

8.3 User Self-Service

ULV strongly recommends adhering to the provided maintenance schedule and consulting a qualified repair shop if any part of the vehicle malfunctions or cannot be replaced by the user. For the best results, ULV advises having all maintenance and repairs performed by an Authorized ULV Service Provider.

	Interval
Check:	
Brake Fluid	Change Fluid Every 2 Years (SAE J1703 DOT-3 brake fluid)
Tire Rotation	Rotate Tires Every 5000-7000 miles
Transaxle Oil	Change Every 500 miles (Mobil 1 SHC 75W-90)

8.4 Brake System Break-In

Apply only moderate braking force for the first 50 stops. Aggressive or overly forceful braking when the brake system is new could damage brake pads and rotors.

Perform the following steps on a new vehicle or anytime brake pads are replaced:

1. In an appropriate riding area, safely slow the vehicle with moderate (70%) braking from 20 mph (32 km/h) down to 5 mph (8 km/h). Do not stop completely in order to keep air flowing through the brakes.
2. Repeat for 10-20 cycles and let the brakes cool between each cycle by driving your vehicle approximately 0.2 miles (321 m).
3. After you have completed all 20 cycles, drive for an additional 15 minutes to cool the braking system to avoid overheating the brakes.
4. Stop the vehicle and put the vehicle in PARK.

9. Maintenance

Besides the mentioned service intervals in the previous chapter, some maintenance can be performed by the owner of the vehicle to uphold the quality and functionality of the vehicle. The following pages state how to ensure the proper maintenance of your ULV.
When performing any maintenance on your ULV the following procedures must be followed to ensure safety:

1. Ensure the vehicle is on a solid, level surface.
2. Put the vehicle in 'P'.
3. Block (chock) the wheels to prevent any movement.

9.1 Jacking

Important:

Do not place jacks or axle stands under the following components: body structure, bumpers, front or rear suspension arms, or steering linkage, as this may cause damage to these components.

Using a Hydraulic Jack:

1. Always use proper safety supports (jack stands) under the reinforced sill brackets before working underneath the vehicle.
2. Never rely solely on the jack to support the vehicle.
3. Always chock the wheels before jacking up the vehicle.
4. Disconnect the charging cable before raising the vehicle. Never lift the vehicle with the charge cable connected, even if charging is not active.
5. Place a rubber or wooden pad between the jack and the vehicle to prevent surface damage.
6. Position the jack head under the designated front or rear jacking points on the sills. (see Fig 9)
7. Do not attempt to jack or support the vehicle at any points other than those specified, as this can result in damage to the body or chassis.
8. Position the lift arms under the illustrated jacking points as specified by ULV. (see Fig 9)

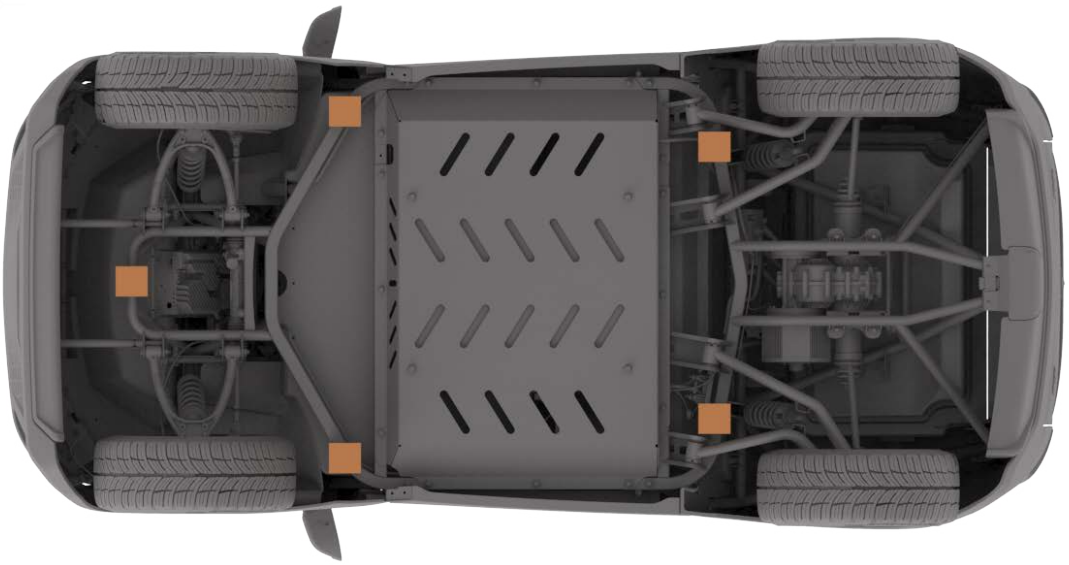


Fig. 9

⚠ WARNING

Never work under a vehicle supported only by a hydraulic jack; always use jack stands. Always ensure the vehicle is stable and secure before beginning any work underneath.

9.2 Wheel Removal/Installation

Removal

1. Raise and support the vehicle.Warning: Ensure the vehicle is securely supported before starting any work.
2. Loosen and remove the nuts (x5) securing the wheel. (3/4in)
3. Remove the wheel. Torque specification for nuts: 100 ft-lbs



Fig. 9.1



Fig. 9.1.1



Fig. 9.1.2



Fig. 9.1.3

Installation

The installation process is the reverse of removal.

Note: Clean all mating surfaces before reassembly.

Warning: Use cleaning agents and solvents only in a well-ventilated area.

9.3 Brake Fluid

1. Check your brake fluid regularly
2. To access the brake reservoir, remove the front storage container and disconnect the LED plug (see Fig. 9.2.1).
3. Unscrew brake resevoir cap and fill to upper line using SAE J1703 DOT/3 Brake Fluid (see Fig 9.2.3).
4. Screw cap back on and install front storage container, ensure to reconnect front storage LED plug.



Fig. 9.2



Fig. 9.2.1



Fig. 9.2.2

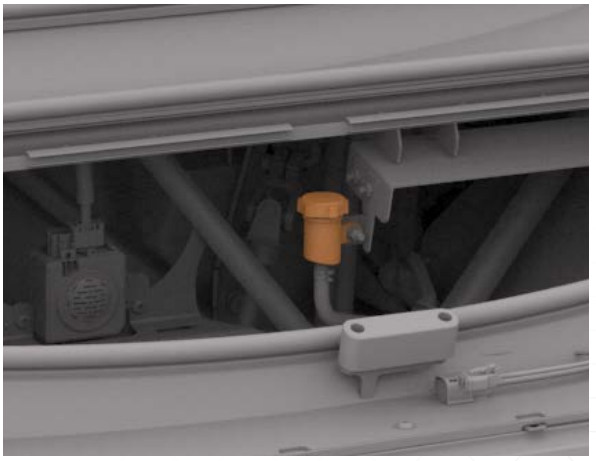


Fig. 9.2.3

9.4 Windshield Wipers

1. Check your wiper blades if they are leaving streaks or are not wiping efficiently. If they are cracked and hard they may need replacing (see Fig 9.3).
2. Lift wiper blade and arm from glass (see Fig 9.3.1).
3. Grasp the wiper blade and pull firmly from the "J" hook (see Fig 9.3.2).
4. Replace with a new wiper blade.



Fig. 9.3

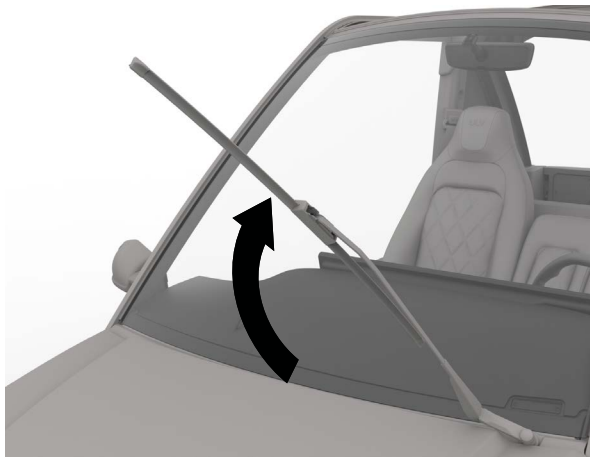


Fig. 9.3.1

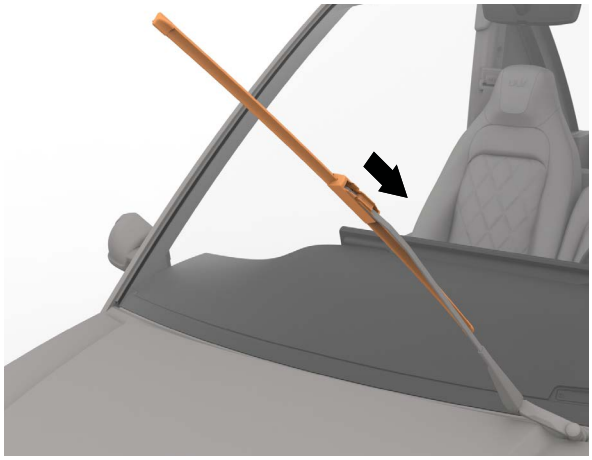


Fig. 9.3.2

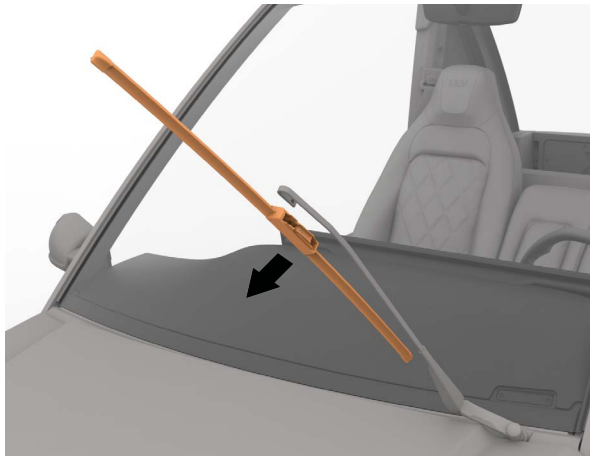


Fig. 9.3.3

9.5 Fuse Diagram

The fuse box is located as shown below, beneath the passenger side of the dash. If an electrical problem occurs, check the fuses first. Always replace a fuse with one of the same amperage rating specified on the next page; using a different rating can damage the electrical system or cause it to malfunction. To see if a fuse is blown, remove it from its socket in the fuse box and inspect it, using the illustration below as a reference.



Fig. 9.4

⚠ CAUTION

Danger of device damage!
Only replace fuses with ones that have the same amperage rating indicated on the fuse box lid. Using fuses with different amperage or voltage ratings can cause a fire or severely damage the vehicle's electrical system.

Fuse Box Specification

APPLICATION	AMP (A)	VOLTAGE (V)
WIPER MOTOR	20	58
TRUNK	5	58
WIPER TSI	5	58
BRAKE LIGHTS	5	58
PHONE CHARGER	10	58
AMP	50	58
DCU	10	58
AVAS	5	58
HORN	10	58
KEY SW RELAY	5	58



Fig. 9.5

PDM Fuse and Relay Specification

APPLICATION	AMP (A)	VOLTAGE (V)	FORM
WIPER 1	35A	12	A
WIPER 2	35A	12	C
WIPER 3	35A	12	A
WIPER 4	35A	12	C
DMC KEY SW	35A	12	C
BRAKE LIGHT	35A	12	A
DMC INPUTS	2	12	N/A
MC KEY SW	10	12	N/A
RGB	2	12	N/A
INTERLOCK	2	12	N/A
PEDAL	2	12	N/A
FOOT SW	2	12	N/A

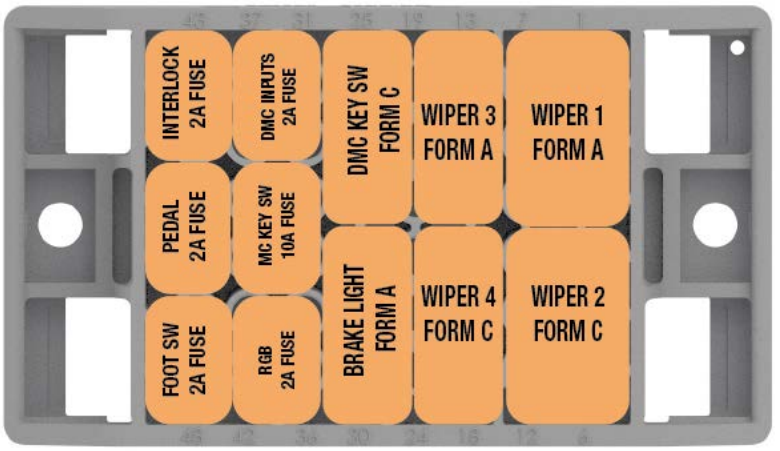


Fig. 9.5.1

Keybox Fuse Specification

PIN	CHANNEL	DEVICE	AMP (A)
A1	Ch6	Left Turn signal	5
A2	Ch9	Accent light	10
A3	Ch10	Reverse light	10
B1	Ch5		10
B2			
B3	Ch1	Driver Heated Seat	5
C1	Ch4	Right Turn Signal	5
C2	Ch12	Amp Remote	3
C3			
D1	Ch13		3
D2			
D3			
E1	Ch2		5
E2			
E3	Ch7	Headlight High Beam	5
F1	Ch3	Passenger heated seat	5
F2	Ch11		5
F3	Ch8	Headlight low beam + taillights + license plate light	5

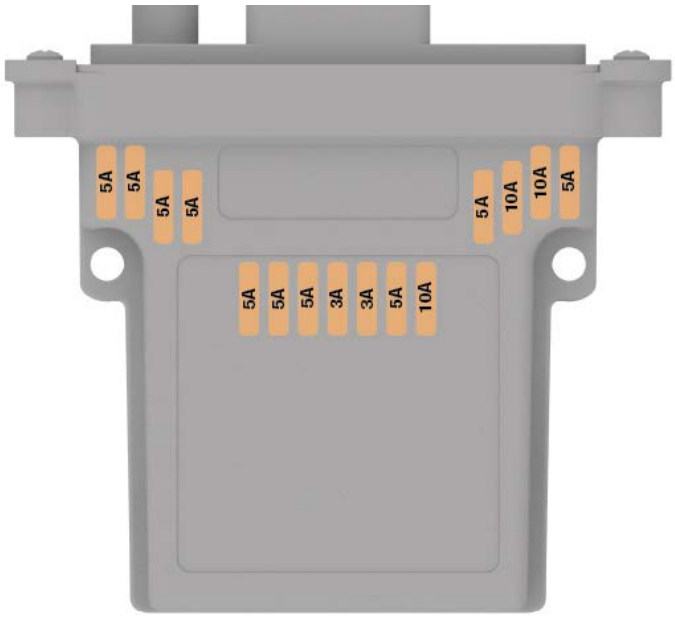


Fig. 9.5.2

09 MAINTENANCE

The fuse box is located as shown above, beneath the passenger side of the dash. If an electrical problem occurs, check the fuses first. Always replace a fuse with one of the same amperage rating specified on the next page; using a different rating can damage the electrical system or cause it to malfunction. To see if a fuse is blown, remove it from its socket in the fuse box and inspect it, using the illustration below as a reference.

9.6 Towing Procedure (vehicle breakdown)

IMPORTANT NOTE

Do not tow your ULV vehicle behind a car or any other vehicle unless it is loaded onto a trailer. Using a tow dolly or similar method may cause vehicle damage and will void the warranty.

1. Put vehicle in park
2. Block (chalk) tires.
3. Jack driver side rear tire and remove.
4. Remove rubber plugs (see Fig 9.5.3).
5. Insert ULV provided EM Brake Release Lever into unplugged holes.
6. Screw in until grounded out, then flip handle to lock.
7. Attach tire back onto vehicle

⚠ WARNING

Cargo or loose vehicle components can fall off while the vehicle is being transported. Remove or securely fasten all cargo, and check the vehicle for any loose parts before transport.

⚠ WARNING

Do not exceed the rated capacity of the towing vehicle or trailer when transporting. Always refer to the specifications of both the towing vehicle and the trailer.

WARNING

If the vehicle is transported on an open trailer, it must be positioned FACING FORWARD. Transporting it in any other orientation can allow airflow, vibration, or other forces to lift or separate the roof from the vehicle and may lead to an accident causing serious injury or death.

CAUTION

Always secure the vehicle using the designated tie-down points. Using other locations may cause premature component damage and increase wear or failure of the tie-down straps.

WARNING

Always secure the vehicle with a minimum of four straps when transporting on a trailer. Use two straps at the front and two at the rear.

WARNING

Never use chains to secure the vehicle during transport.

WARNING

Never route tie-down straps over any fiber glass body panels or floor panel components.

WARNING

Do not route straps over any sharp edges. Sharp edges can damage the straps during transport.



Fig. 9.6

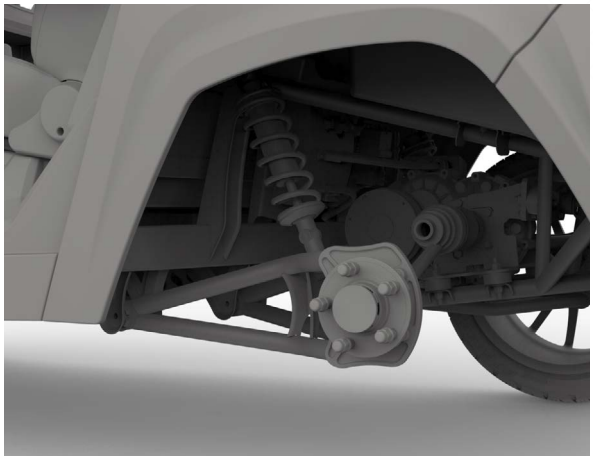


Fig. 9.6.1

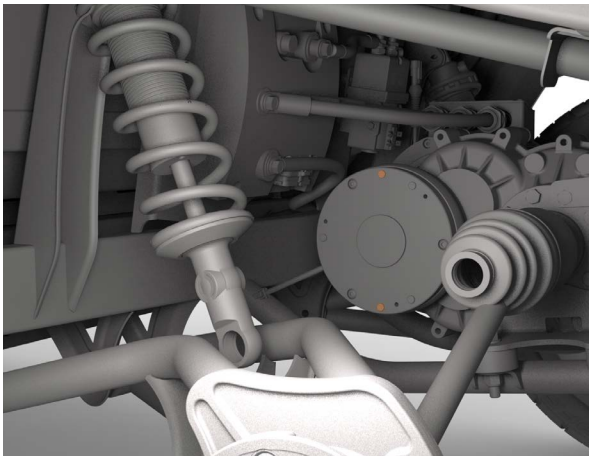


Fig. 9.6.2

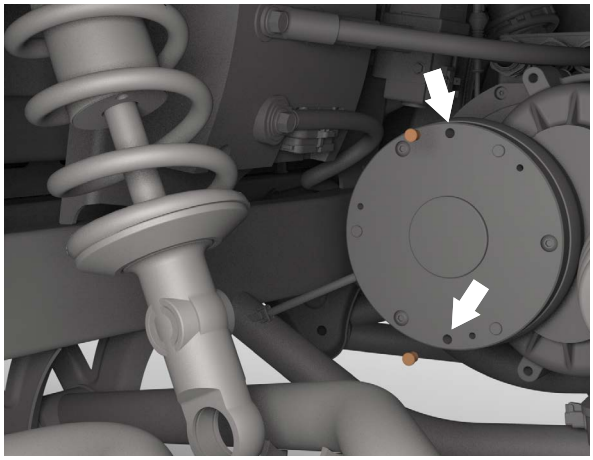


Fig. 9.6.3

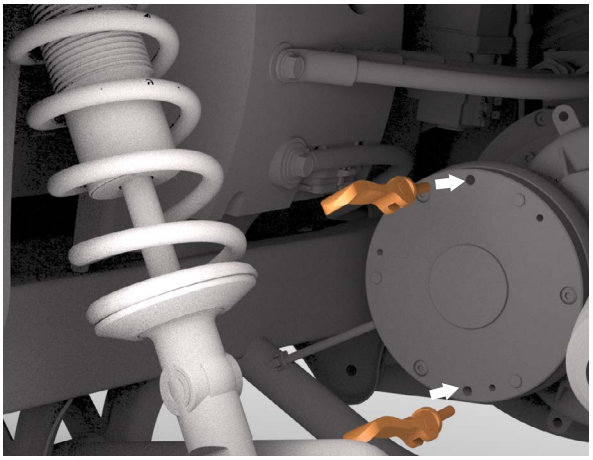


Fig. 9.6.4

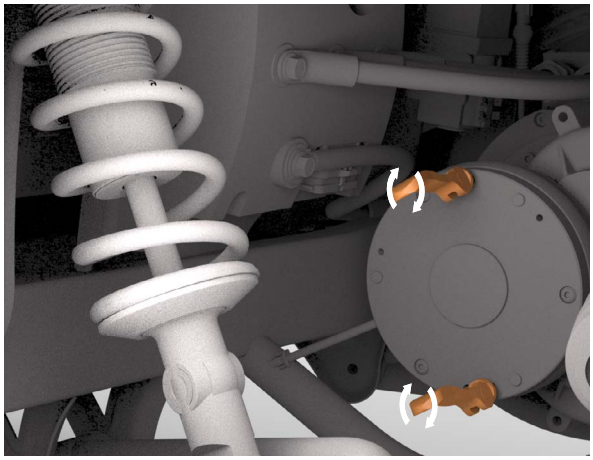


Fig. 9.6.5

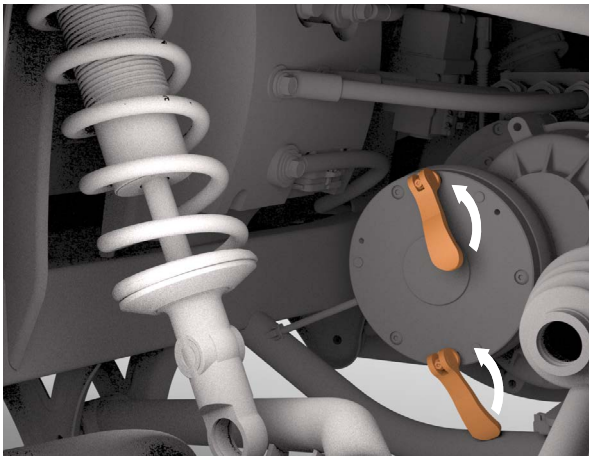


Fig. 9.6.6

9.7 Transporting The Vehicle

Using tie-down straps with an appropriate Working Load Limit (WLL), secure the vehicle to the trailer at the designated front (see Fig 9.6.7) and rear tie-down points (see Fig 9.6.8). Arrange the straps so they restrain the vehicle in both vertical and lateral directions. Apply enough tension to compress the suspension and eliminate vehicle movement during transport. Make sure the secured straps do not come into contact with any other part of the trailer or cargo.



Fig. 9.6.7



Fig. 9.6.8

9.8 Cleaning Of Vehicle

9.8.1 Exterior

To prevent damage to the paint, immediately remove corrosive substances (such as bird droppings, tree resin, dead insects, tar spots, road salt, industrial fallout, etc.). Do not wait until your ULV is due for a complete wash. If necessary, use denatured alcohol to remove tar spots and stubborn grease stains, then promptly wash the area with water and a mild, non-detergent soap to remove any remaining alcohol.

Follow these steps when washing the exterior of your ULV:

1. Rinse Thoroughly, flush grime and grit from the bodywork using a hose. Pay special attention to areas where debris easily collects (such as wheel arches and panel seams).
2. Hand Wash: Hand wash your ULV using a clean, soft cloth and cold or lukewarm water mixed with a mild, high-quality car shampoo.
3. Rinse with Clean Water: After hand washing, rinse the vehicle with clean water to prevent soap from drying on the surfaces.
4. Dry Thoroughly: Once rinsed, dry your ULV thoroughly with a chamois
5. Clean Exterior Glass: Clean windows and mirrors using an automotive glass cleaner. Do not scrape or use any abrasive cleaning fluid on glass or mirrored surfaces.

9.8.2 Wheels

To clean tires and rims effectively, start by rinsing them thoroughly with water to remove loose dirt and brake dust. Using a mild acid free wheel cleaner of your choice, follow the products applications instructions carefully. Always test new products on a small area first to avoid damage.

9.8.3 Interior

Regularly inspect and clean the interior to preserve its appearance and prevent premature wear. Whenever possible, promptly wipe up spills and remove stains. For routine cleaning, use a soft cloth (such as microfiber) dampened with a mixture of warm water and a mild, non-detergent cleaner (always test any cleaner on a hidden area first). To prevent streaks, dry the surfaces immediately with a soft, lint-free cloth.

9.7.4 Touchscreen and Instrument Panel

Clean the touchscreen and instrument panel with a soft, lint-free cloth specially designed for monitors and displays. Avoid using cleaners like glass cleaner, as well as wet wipes or dry statically charged cloths (such as freshly washed microfiber), to prevent damage.

9.7.5 Seats

To clean and maintain marine grade vinyl seats, start by regularly wiping them down with warm water and mild dish soap using a soft cloth or rag. This is the safest and most effective routine for removing dirt, sweat, and debris without damaging the vinyl's protective layer. Avoid harsh household cleaners or stiff brushes, as these can strip away built-in antimicrobial additives and shorten the life of the material. After cleaning, always dry the seats thoroughly with a soft towel to prevent moisture buildup, which can lead to mold and mildew. For tougher stains or mold, use a dedicated marine vinyl cleaner or protectant, applying it with a soft cloth and rinsing well afterward. To extend the life of your seats, apply a marine vinyl protectant regularly

and keep the seats covered and out of direct sunlight when not in use. Consistent care will help keep your marine vinyl seats looking fresh and lasting for years.

9.8 Maintenance to Ensure Safety

To ensure safety, it is essential to maintain the vehicle properly. The following recommendations should be followed to achieve the highest level of safety and reliability:

Preventative Maintenance: Always perform regular service and maintenance as outlined in the maintenance schedules provided in this user's manual. Adhering to these schedules ensures the vehicle maintains optimal safety standards and keeps the warranty valid. (Refer to Sections 8 and 9 of this manual.) Failure to follow the specified service intervals will result in the voiding of all applicable warranties.

Repairs: Only allow qualified, trained, and authorized personnel to service, or repair the vehicle. Repairs must be conducted in accordance with the procedures detailed in the ULV Service Manual. Failure to follow these procedures will void all applicable warranties.

By following these guidelines, you can maintain the vehicle's safety, performance, and warranty coverage.

10. Troubleshooting

Always consult the vehicle's owner's manual for model-specific information and use the appropriate steps as needed. Accurate diagnosis and systematic troubleshooting will help ensure efficient and effective repairs.

10.1 The Vehicle Will Not Drive

- Battery Charge Verification; Confirm battery charge level meets minimum operational requirements for driving.
- Transmission Cycle; Shift gear selector to Park (P), then re-engage Drive (D) mode to reset powertrain logic.
- Brake Pedal Inspection; Visually and physically confirm no foreign objects obstruct pedal travel. Note: Partial brake pedal depression activates safety override, disabling acceleration.
- Key Fob Validation; Verify key is within 5 feet (1.5m) of vehicle, if there is still no connection, key fob battery may need replacing.
- Accelerator Sensor Connection; Ensure accelerator pedal is plugged in, by verifying connection located on top of accelerator module which is connected to accelerator pedal.
- If all preceding conditions are met without resolution, immediately cease operation and take the vehicle to a ULV Specified Repair Shop

10.2 The Vehicle is Stuck in Normal or Sport Mode

- Battery Charge Verification; Confirm battery charge level meets minimum operational requirements for driving.
- Control Stalk Inspection; Visually and physically confirm the right multifunction control stalk is unobstructed and moves freely through its full operational range.
- If all preceding conditions are met without resolution, immediately cease operation and take the vehicle to ULV Specified Repair Shop.

10.3 The Vehicle Has a Lower Range Than Normal

- Drive Mode Confirmation; Confirm the vehicle is not engaged in Sport Mode (rapid acceleration in Sport Mode accelerates battery depletion rates).
- Accessory Power Audit; Disconnect or disable non-essential accessories (USB ports, heated seats, aftermarket devices) to eliminate parasitic power drains.

- Load and Environmental Assessment
- Towing/Weight: Confirm payload remains within ULV-specified amount; excessive weight/incline reduces range.
- Climate Impact: Ambient temperatures below 32°F (0°C) or above 104°F (10°C) degrade battery efficiency. Consult battery manufacturer specifications

10.3.1 Jump Starting the Vehicle

*Please note: ULV's vehicle's electrical system does not support jump-starting via a 12V external battery.

- If the battery is fully discharged, connect the designated charging cable to an appropriate AC power outlet or compatible generator.
- Conclusion If all preceding conditions are met without resolution, immediately cease operation and take the vehicle to ULV Specified Repair Shop.

10.3.2 Battery Won't Charge or Hold a Charge

- Verify that the vehicle is in Park.
- Verify that charging cable is plugged correctly into the charging port
- Check charger is plugged into the outlet. Ensure the charging cable has green light on. Press the green reset button on the cable.
- If charging slowly, turn off accessories, lights, and heated seats as to not drain excess power

10.3.3 What To Do With a Low Battery or No Battery Power

- If the vehicle has low battery, drive the vehicle in normal mode and do not accelerate quickly.
- Unplug accessories and limit usage of features to preserve battery life.
- If the vehicle has a completely depleted battery, perform a full charging cycle.

10.3.4 Opening Front Storage Without Power

- The front storage cannot be opened without power. This is an anti theft precaution.
- Turn on the vehicle or if the battery has fully drained, charge the vehicle.

10.4 Key Fob Not Working

- Check key fob is in range of vehicle (3-5ft (0.91m - 1.52m)
- Check if the key fob is awake, shake or jiggle twice. Green light should flicker.
- If no light appears, replace the battery. Battery Specs. 2450 lithium battery.
- Ensure you have the correct key fob for the vehicle.
- If all preceding conditions are met without resolution, please take the vehicle to a ULV Specified Repair Shop.

10.5 Backup Camera Not Working

- Ensure the vehicle is in the Reverse Drive mode.
- Clean off any debris from the camera that could be obstructing the view.
- If all preceding conditions are met without resolution, please take the vehicle to a ULV Specified Repair Shop.

10.6 The Lights Do Not Work

- Ensure the switch on the left control stalk is set to on and is not obstructed.
- Check the fuse panel. If the fuse is not intact, replace it with a new one. (see fig. 9.4.1)
- If all preceding conditions are met without resolution, please take the vehicle to a ULV Specified Repair Shop.

10.6.1 Cluster or Infotainment Has No Power.

- Check the key fob is in range and the vehicle is on.
- The power button will blink red if the key fob is dead or the vehicle battery is dead.
- If all preceding conditions are met without resolution, please take the vehicle to a ULV Specified Repair Shop.

10.6.2 USB Port Not Working

- Check the cable is plugged in. A loose connection could prevent power.

- Check the fuse panel. If the fuse is not intact, replace it with a new one. (see fig. 9.4.1)
- If all preceding conditions are met without resolution, please take the vehicle to a ULV Specified Repair Shop.

10.7 Brake Pedal is Soft or Not Working

- Check if the brake reservoir is low. Refer to front storage removal (see pg. 87). Check levels and fill to line.
- If brake fluid is fine, do not drive. Brakes could be malfunctioning. Please take the vehicle to a ULV Specified Repair Shop.

10.8 The Steering Wheel Vibrates.

- Check tire pressure on all four tires. Refer to Tire Pressure Section. (see pg.21)
- Ensure all lug nuts on wheels are torqued to 100 ft-lbs
- If vibrating persists, please take the vehicle to a ULV Specified Repair Shop.

10.9 Garage Door Pairing Not Working.

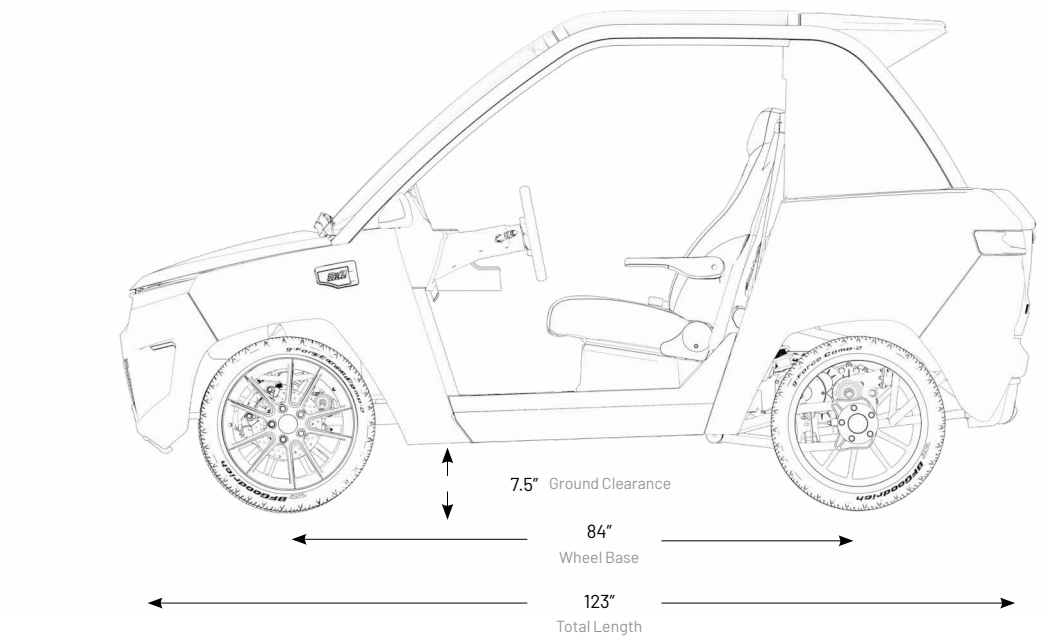
- Refer to Homelink Setup Instructions. (see pg.56)

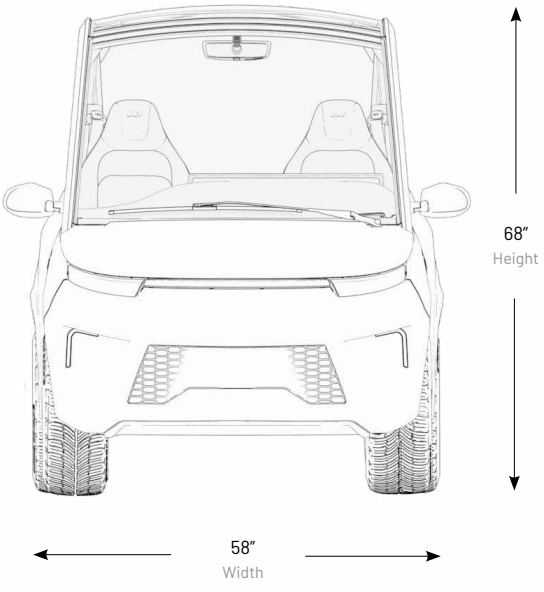
10.10 Infotainment Contacts and Recent Calls Not Showing

- Re-sync your contacts .(see pg.45)
- Check your phone if you've given the ULV access to your contacts

11. Vehicle Specifications

Dimensions and Weight	
Length	123 in
Width	58 in
Height	68 in
Wheelbase	84 in
Ground Clearance	7.5 in
Dry Weight	1425
Gross Vehicle Weight Rating (GVWR)	2300 lbs
Gross Axle Weight Rating (GAWR) Front	920 lbs
Gross Axle Weight Rating (GAWR) Rear	1500 lbs
Tongue Weight	100 lbs
Tow Capacity	1000 lbs
Motor and Performance	
Motor	7.5 kW
Max Speed	25 MPH
Range	Varies due to road condition
Transaxle	16:1 single speed
Brakes	Front disc brakes, rear regenerative
Parking Brake	electro-mechanical
Front Suspension	Coilover Suspension
Rear Suspension	Coilover Suspension
Tires	215/45/R17
Tire Pressure	25 psi
Energy System	
On Board Charger	1200W
Battery	312 Ah


7.5″ Ground Clearance
84″
Wheel Base
123″
Total Length


68″
Height
58″
Width

ULV OWNERS MANUAL

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