

 VANDERHALL™



Brawley™ 2026 OWNER'S MANUAL

The Vanderhall Brawley™ is NOT a car.

The Vanderhall Brawley™ complies with American National Standards for Recreational Off-Highway Vehicles (ANSI/ROVHA) applicable to recreational off-highway vehicles in the USA.

The Vanderhall Brawley™ vehicle does NOT comply with Federal Motor Vehicle Safety Standards (FMVSS) and regulations of the United States Department of Transportation (DOT) applicable to passenger cars in the USA.

Always wear a proper fitting DOT compliant full face helmet and gloves when operating or riding in a Vanderhall Brawley™.



Brawley **GT**



Brawley **GTS**



Brawley **GTS+**

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Introduction

Introduction



The names, logos, emblems, slogans, vehicle model name, and vehicle body designs appearing in this manual including, but not limited to, Vanderhall™ and Brawley™ are trademarks of Vanderhall Motor Works Inc.

Vanderhall North America, LLC.
3500 Mountain Vista Pkwy,
Provo, UT 84606

Using this Manual

To quickly locate information about the vehicle, use the Index in the back of the manual. It is an alphabetical list of what is in the manual and the page number where it can be found.

This manual may be altered upon the release of new features. Reference this manual following vehicle updates.

Danger, Warning, and Caution

Warning messages found on vehicle labels and in this manual describe hazards and what to do to avoid or reduce them.



DANGER

Danger indicates a hazard with a high level of risk which will result in serious injury or death



WARNING

Warning indicates a hazard that could result in injury or death



CAUTION

Caution indicates a hazard that could result in property or vehicle damage

Symbols

Your Vanderhall Brawley™ has components and labels that utilize symbols instead of text.

Symbols on your vehicle and within this manual are often shown with text describing the operation or information related to a specific component, control, message, gauge, or indicator.

 : Shown when this owner's manual contains additional instructions or information.



:Battery



:Battery Level



:Battery Pre-Conditioning



:Cruise Control



:Danger, Warning or Caution



:Dome Lights



:Drive Modes



:Fuses



:Halo Running Lights



:Hazard Warning Lights



:Heated Seats



:Helmet



:High-Beam Headlamps



:High Voltage Electricity



:Light Bar



:Low Beam Headlamps



:Malfunction Indicator Lamp



:No Self Maintenance



:Parking Brake Alert



:Rear Defrost



:Roll Over Warning



:Seat Belt



:Temperature Warning Lamp



:Thermal Runaway Warning



:Traction Control



:Turn Signal Indicators



:Windshield Wipers



:Windshield Washer

Wireless Updates and Your Vehicle

It is crucial that your Brawley™ software be kept up to date to ensure optimal vehicle performance and safety. Ensure that your vehicle is always up to date with the most current available software using the Vanderhall™ mobile app.

Wireless software updates to your Brawley™ may alter your vehicles functionality and the availability and operation of features discussed within this manual.

The Vanderhall™ mobile app is available on both Android™ and Apple™ mobile devices.

SAFETY INFORMATION



 WARNING

This vehicle is designed and manufactured for OFF-ROAD USE ONLY. It is not designed to operate on public roads or paved surfaces, including streets, highways, sidewalks, driveways, parking lots, or paths.

Operating this vehicle on paved roads or asphalt may adversely affect the handling of the vehicle and may increase the risk of loss of control and accident or rollover. Avoid operating the vehicle on pavement or asphalt. If travel is unavoidable, proceed slowly, covering short distances while avoiding sudden turns or stops. Drive with caution and REMAIN in Rear-Wheel Drive mode, as described in the owner's manual.

ROVs are not equipped with highway safety features and are not designed for the handling characteristics required on pavement. Their tires and suspension are engineered for off-road terrain, making them potentially unstable and difficult to control on hard surfaces. Collisions with other vehicles, rollovers, and loss of control are far more likely on paved roads.

 WARNING**YOUR VEHICLE CAN BE HAZARDOUS TO OPERATE.**

A roll-over can occur quickly even during routine maneuvers such as turning and driving on hills or over obstacles. For your safety, understand and follow all the warnings contained in this owner's manual and on the labels on your vehicle.

Failure to follow these warnings can result in SEVERE INJURY OR DEATH. Keep this operator's guide with the vehicle at all times.

 WARNING

Disregarding any of the safety precautions and instructions contained in the owner's manual, safety and informational videos as listed below, and on product safety labels could cause injury including the possibility of death.

The Recreational Off-Highway Vehicle Association (ROHVA) offers safety videos and information at no cost to you.

Visit <https://rohva.org/digital-assets/video-gallery/> to learn about ROV operation, safety rules and tips.

Brawley Ride Guide Videos are available at <https://vanderhallusa.com/vanderhall-owners-manuals>

 WARNING

Read this owner's manual thoroughly. It contains important safety information.

It is illegal to operate this recreational off-highway vehicle in the state of Wisconsin.

Check with your local jurisdiction regarding allowed areas of vehicle use and vehicle licensing and registration.

 WARNING

Get familiar with this Recreational Off-Highway Vehicle (ROV); it may exceed the performance of other ROVs you may have ridden. This is a high performance vehicle. Inexperienced riders may overlook risks and be surprised by the specific behavior of this vehicle in any terrain condition.

**WARNING**

Require Proper Use of Your Vehicle. Do your part to prevent injuries:

1. Do not allow careless or reckless driving.
2. Always wear and ensure all passengers wear a properly fitted DOT approved helmet and gloves when operating or riding.
3. Always wear your seatbelt.
4. Operators must be at least 18 years old with a valid drivers license and qualified. See your states laws regarding operator age restrictions, licensing requirements and allowed areas of use.
5. Do not drive or ride while or after using alcohol or drugs.
6. Properly secure all cargo. Do not store any loose items in the vehicle.
7. Do not exceed seating capacity of 4.

 WARNING**High Voltage Connections**

1. Your Brawley™ operates at high voltage. Tampering with the electrical system can lead to serious injury or death.
2. All high voltage electrical connections are colored orange. Ensure that any orange cables or connectors are in good repair, free from debris, and fully connected. Contact your approved VANDERHALL dealer if you see any worn or damaged cables or connectors.

 WARNING**Improper use of the Battery can result in severe injury or death.**

The Battery has no parts that an owner can service. Under NO circumstances should you open or tamper with the Battery. Always contact an approved VANDERHALL dealer to arrange for Battery servicing.

1. If you are in an accident, exit the vehicle as soon as safely possible.
2. If you see or smell smoke, bring the vehicle to a stop and exit as soon as safely possible.

**WARNING****Operating Ability**

Operators must be qualified and at least 18 years old with a valid driver's license. The safe use of this vehicle depends on many conditions such as visibility, speed, weather, environment, traffic, vehicle condition and the condition of the operator. The performance of this vehicle may significantly exceed that of other off-road vehicles you have operated. Use by novice or inexperienced operators is not recommended. Each passenger must be tall enough to always be properly seated: back against the backrest with safety harness fastened and feet firmly planted on the floor.

**Drugs and Alcohol**

Never ride while or after consuming alcohol or drugs. Riding in this vehicle requires the operator and passenger(s) to be sober, attentive, and alert. The use of drugs and alcohol, singly or in combination, decreases reaction time, impedes judgment, impairs vision, and inhibits your ability to safely ride.

**Helmets and Eye Protection**

Helmets protect the head and brain from injury. Even with the vehicle's cage, roof, doors, and windows, objects can enter the cockpit and strike the head, or the head can strike the vehicle itself or objects outside the vehicle. Even the best helmet is no guarantee against injury, but statistics indicate that helmet use significantly reduces the risk of brain injury. Be safe and always wear an approved helmet while riding.

**WARNING****Off-Road Operation**

Off-road operation can be dangerous. The terrain itself presents a constant element of danger, which must be knowingly accepted by anyone venturing over it. An operator should always exercise care in selecting the safest path and keeping a close watch on the terrain ahead of them. The vehicle should never be operated by anyone who is not completely familiar with the driving instructions applicable to the vehicle, nor should it be operated on steep or dangerous terrain. The traction of the tires will vary depending on the surface and environmental conditions. Traction may be reduced on many surfaces (rock, sand, mud, snow, ice, etc.).

**Environment**

This vehicle is capable of traveling where other passenger vehicles cannot. It is your responsibility to tread lightly to preserve natural habitats. Do not run over shrubs or trees or damage your surroundings. Do not harass or chase wildlife. It is illegal to do so in most jurisdictions and can cause health risks and even death to the animal being chased. Instead, quietly observe from a safe distance. Leave the land how you found it or better. Littering is a crime so pack out what you packed in and preserve these spaces responsibly.

GENERAL SAFETY LABELS

**⚠ WARNING****SEAT BELT**

- a. Improper vehicle use can result in **SEVERE INJURY** or **DEATH**.
- b. **Be Prepared.**
- Ensure you and your passengers are properly buckled in their seat belts.
 - Each rider must be able to sit with back against seat, feet flat on the floor, and hands on steering wheel or hand holds, where equipped.
 - Stay completely inside the vehicle.
 - Riders may be ejected from vehicle if not secured.
 - Ensure that each rider has buckled up in a manner so that the belt is snugly on the shoulders and the buckle belt is securely positioned around the waist.

**All Riders
Pay Attention**

and Plan Ahead
If you expect the vehicle may roll or tip, reduce your risk of injury:

- Keep a firm grip on the steering wheel or hand holds and brace yourself.
- Do not put any part of your body outside of the vehicle for any reason.

Require Proper Use of Your Vehicle.

Do your part to prevent injuries:

- Do not allow careless or reckless driving.
- Always wear a DOT approved helmet when operating or riding.
- Always wear your seatbelt.
- Operators must be 18 or older with a valid driver's license, with proper training as required by law.
- Do not drive or ride after using alcohol or drugs.
- Do not operate on public roads unless they are designated for off-highway vehicle access.
- Properly secure all cargo. Do not store any loose items in the vehicle.
- Do not exceed seating capacity of 4.
- Do not drive with anyone that cannot properly wear a seat belt. Child car seats are strictly forbidden.

GENERAL SAFETY LABELS

⚠ WARNING	
 SEAT BELT a. Improper vehicle use can result in SEVERE INJURY or DEATH. b. Be Prepared. • Ensure you and your passengers are properly buckled in their seat belts. • Each rider must be able to sit with back against seat, feet flat on the floor, and hands on steering wheel or hand holds, where equipped. • Stay completely inside the vehicle. • Riders may be ejected from vehicle if not secured. • Ensure that each rider has buckled up in a manner so that the belt is snugly on the shoulders and the buckle belt is securely positioned around the waist.	 All Riders Pay Attention and Plan Ahead If you expect the vehicle may roll or tip, reduce your risk of injury: • Keep a firm grip on the steering wheel or hand holds and brace yourself. • Do not put any part of your body outside of the vehicle for any reason.

 DRIVE RESPONSIBLY WARNING a. Drive Responsibly: Your Vanderhall Brawley is capable of high speeds and extreme acceleration. b. Reckless driving can quickly lead to a loss of control. c. Rollovers have caused severe injuries and death, even on flat, open areas. d. Avoid loss of control and rollovers: • Avoid abrupt maneuvers, sideways sliding, skidding or fishtailing, and never do donuts. • Slow down before entering a turn. • Avoid hard acceleration especially when turning, even from a stop. • Plan for hills, rough terrain, ruts and other changes in traction and terrain. • Avoid steep terrain. • Avoid side hilling (riding across slopes). • Avoid paved surfaces.	Require Proper Use of Your Vehicle. Do your part to prevent injuries: • Do not allow careless or reckless driving. • Always wear a DOT approved helmet when operating or riding. • Always wear your seatbelt. • Operators must be 18 or older with a valid driver's license, with proper training as required by law. • Do not drive or ride after using alcohol or drugs. • Do not operate on public roads unless they are designated for off-highway vehicle access. • Properly secure all cargo. Do not store any loose items in the vehicle. • Do not exceed seating capacity of 4. • Do not drive with anyone that cannot properly wear a seat belt. Child car seats are strictly forbidden.

TIRE PRESSURE AND WEIGHT LABEL

⚠ WARNING**IMPROPER TIRE PRESSURE, OVERLOADING, OR TOWING CAN CAUSE LOSS OF CONTROL RESULTING IN SERIOUS INJURY OR DEATH**

- Reduce speed and allow greater distance for braking when carrying cargo.
- Refer to Operator Manual for proper towing guidelines. Failure to do so could cause loss of control of vehicle and injury or death.
- Overloading or carrying tall, off-center, or unsecured loads will increase your risk of losing control. Loads should be centered and carried as low as possible in box.
- For stability on rough or hilly terrain, reduce speed and cargo.
- Never carry passengers in rear cargo area.
- Passengers can be ejected. This can cause serious injury or death.

GVWR	WITH TIRES	ORIGINAL EQUIPPED TIRE:
2272 kg/ 5000 lb	35/12.5R18	ATLAS PARALLER M/T 35/12.5R18
GAWR FRT	WITH TIRES	COLD TIRE PRESSURE
1000 kg/ 2200 lb	35/12.5R18	207 kPa, 30 psi
GAWR RR	WITH TIRES	COLD TIRE PRESSURE
1272 kg/ 2800 lb	35/12.5R18	207 kPa, 30 psi

The combined weight of occupants and cargo should never exceed **431 kg/ 950 lb.**

ANSI/ROHVA COMPLIANCE AND ROLL OVER STRUCTURE LABELS

VANDERHALL NORTH AMERICA, LLC. certifies that this ROV complies with the American National Standard for Recreational Off-Highway Vehicles, ANSI/ROHVA-1-2016.

This roll over protective structure meets the performance requirements of ISO 3471:2008.

TOWABLE PAYLOAD LABEL

 WARNING	
Do <u>NOT</u> attempt to load or pull more than the maximum tongue weight rating or maximum gross trailer weight. Towing will affect vehicle handling, speed and range.	
<u>DO NOT EXCEED 45 MPH (72 Km/h) WHEN TOWING</u>	
MAXIMUM TONGUE WEIGHT	MAXIMUM GROSS TRAILER WEIGHT
150 LBS. (68 KG)	1500 LBS. (681 KG)

SERVICE AND BATTERY LABELS

 **⚠ WARNING**

BATTERY

a. Improper use of the battery can result in severe injury or death.

b. **⚠ WARNING**

- The Battery has no parts that an owner or a non-VANDERHALL authorized service technician can service. Under NO circumstances should you open or tamper with the Battery. Always contact an approved VANDERHALL dealer to arrange for Battery servicing.
- If you are in an accident, exit the vehicle as soon as safely possible.
- If you see or smell smoke, bring the vehicle to a stop and exit as soon as safely possible.

c. **⚠ CAUTION**

- The Battery requires NO owner maintenance.
- CAUTION:** If the Battery's charge level falls to 0%, you must plug it in.

If your Battery is left discharged for an extended time, permanent damage may occur.

 **⚠ CAUTION**

- REFRIGERANT UNDER HIGH PRESSURE.
- AIR CONDITIONING SYSTEM TO BE SERVICED BY QUALIFIED PERSONNEL.
- IMPROPER SERVICE METHODS MAY CAUSE PERSONAL INJURY.

SAE J-2843 compliant	TYPE (PART NO.)	AMOUNT
REFRIGERANT	R-1234yf	726 g 1.6 lb.
COMPRESSOR LUBRICANT	POE-68H	140 ml 4.7 oz.

VANDERHALL NORTH AMERICA, LLC.

 Brake fluid can be harmful to and degrade plastics. Clean off brake fluid spills immediately.

 **VANDERHALL**
NORTH AMERICA LLC.

VEHICLE EMISSIONS CONTROL INFORMATION

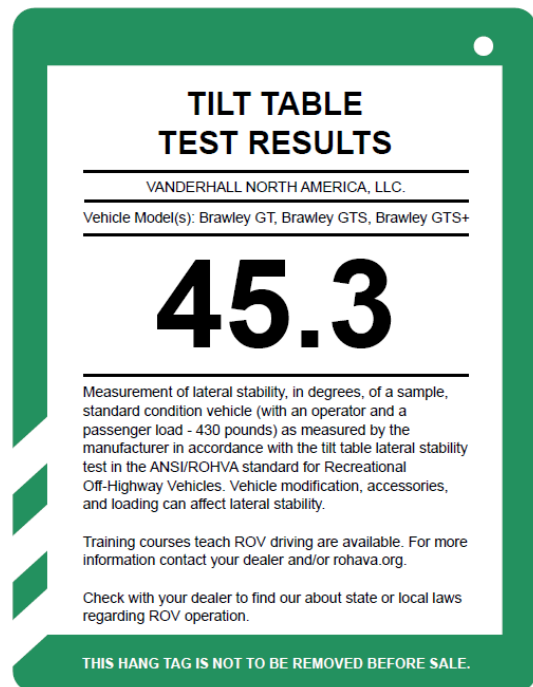
MODEL: 20XX VANDERHALL BRAWLEY GT / BRAWLEY GTS / BRAWLEY GTS+

MOTOR: ELECTRIC DC

ZERO EMISSION VEHICLE

THIS RECREATIONAL OFF-HIGHWAY VEHICLE IS EXEMPT FROM FEDERAL EMISSIONS STANDARDS. THIS VEHICLE IS EXEMPT FROM CALIFORNIA EMISSIONS STANDARDS.

TILT TABLE TEST RESULTS



VEHICLE IDENTIFICATION NUMBER LABEL



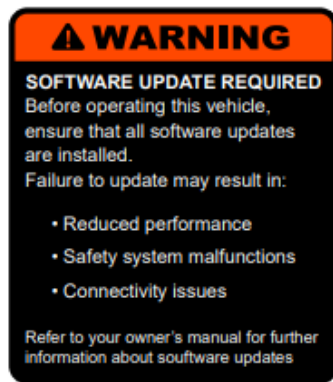
CARGO WARNING LABEL



WINDOW PINCH POINT WARNING LABEL



SOFTWARE UPDATE LABEL



ELECTRICAL WARNINGS LABELS



⚠ WARNING

ELECTRICAL

a. High Voltage Connections.

- Your Brawley operates at high voltages. Tampering with the electrical system can lead to serious injury or death.
- All high voltage electrical connections are colored orange. Ensure that any orange cables or connectors are in good repair, free from debris, and fully connected. Contact your approved VANDERHALL dealer if you see any worn or damaged cables or connectors.

⚠ WARNING

**HAZARDOUS VOLTAGE INSIDE
BATTERIES ARE ALWAYS LIVE**



- Protective cover only to be removed by trained technicians.
- Remove battery packs before servicing.
- Remove HV fuses before servicing.



Overview

Overview

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Quick Start Guide

Starting the vehicle

1. Turn the power knob clockwise to the "ON" position.
2. Use the key card or mobile app to unlock the vehicle and press the brake pedal, this completes the start up process.
3. To turn the vehicle off, turn the knob counter-clockwise.



To Use the Mobile App

1. Download the Vanderhall™ mobile app.
2. Complete the vehicle warranty information.
3. Create an account and log in using your account credentials.
4. Turn the vehicle's power knob to the on position.
5. Search for a connection to your vehicle by selecting "add a vehicle" and pair your phone with the vehicle.

If prompted, allow Bluetooth® permissions for the app.

Your phone and vehicle connect via Bluetooth®. You will need to be within range whenever you wish to access the vehicle with your phone.

Always keep your vehicle software up to date by frequently checking for available updates through the mobile app.

Vanderhall™ recommends that you always have the vehicle's key card with you and readily available in cases and areas where you may be unable to use your phone and the Vanderhall™ mobile app.

Unlocking the Brawley™

After turning the power knob, located next to the charging port, to the on position:

1. Hold the key card against the drivers side door card reader or press to unlock in the Vanderhall™ mobile app. The reader is marked with a removable clear vinyl sticker to help you find the location.
2. The vehicle will unlock after a valid key card or command from the app has been detected. The vehicle will not fully power on until it is unlocked.

The vehicle can also be locked from the interior by pressing the lock toggle switch downward.

To unlock from the interior, pull the leather door opening strap once to unlock both doors. Pull again and push the door to open.

Do not leave the key card or your phone in the vehicle. If a replacement key card is needed, contact your Vanderhall™ dealer.

CAUTION

Do not leave or store the key card or phone in the vehicle while it is unoccupied or unattended.
Always keep the key card and phone on your person when accessing and operating the vehicle.

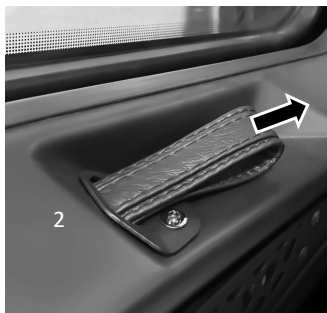


Operating the Doors

To open the door from the outside and inside:

1. Insert fingers into the outside door opening, press the door release forwards until you feel click.
2. Pull the strap on the door sill forward until you feel a click, nudge the door open with your arm. If locked, you'll need to pull the strap twice to unlock and open the door.

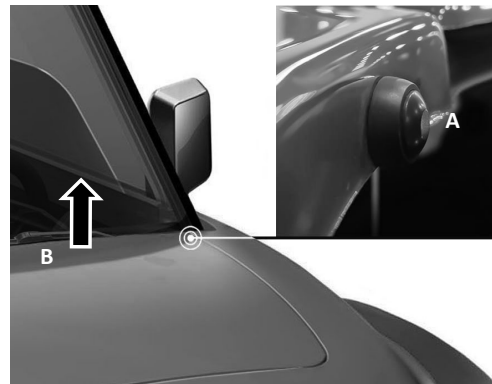
You can also pull the drivers door strap to unlock the both door and do the same with the passenger strap to unlock both doors.



Operating the Hood

While powered on,

- A. Press the button located on the inner edge of the hood.
- B. After the latch unlocks, lift the inner panel up from the windshield side.



Opening the Rear Hatch/Glass



CAUTION

Make sure area around the opening of the glass is clear before closing.

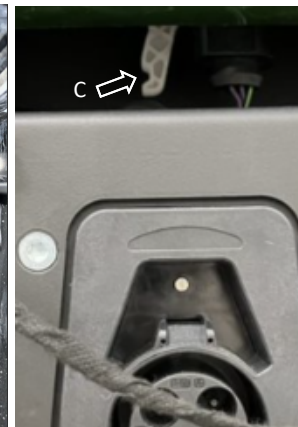
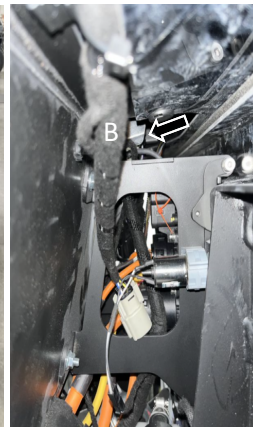


1. To open the rear hatch/glass, press the button on the underside of the license plate overhang.
2. The glass will pop up enough to insert fingers under edge of glass. Lift glass.

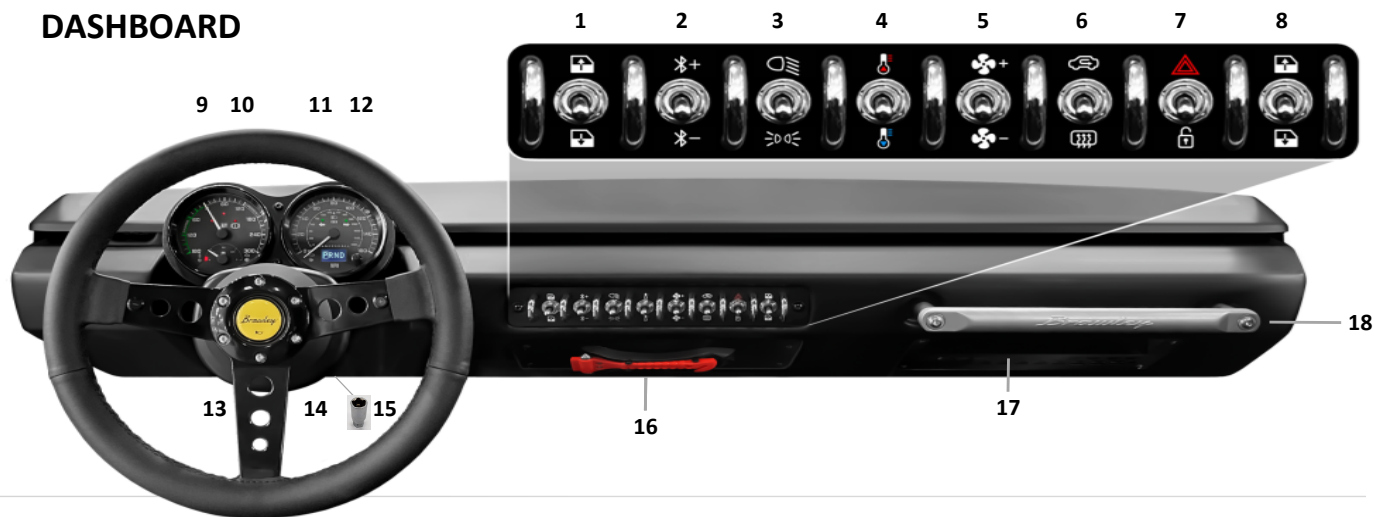
Manually Opening the Rear Hatch/Glass

If the hatch will not open or the vehicle cannot be turned on, you can manually open the rear glass by locating the striker lock behind the rear body work and above the charge port. This operation requires you to reach into the back of the vehicle from the rear driver side wheel well to locate the window striker and latch.

- A. Reach in and locate the striker and latch.
- B. These items are partially covered by other equipment.
- C. Reach past the equipment and press the lock away from you, toward the other side of the vehicle to release the striker.



DASHBOARD



- | | | |
|---|---|--|
| 1. Window Switch (driver) | 6. Recirculation (top) / Defrost (bottom) | 12. Gear Indicator / Odometer Display |
| 2. Bluetooth® Audio | 7. Hazard (top) / Door Lock (bottom) | 13. Steering Column Adjustment |
| 3. Headlights (top) / Running lights (bottom) | 8. Window Switch (passenger) | 14. Gear Selector Buttons |
| 4. Temperature Controls | 9. Power Gauge | 15. Lug Nut Key |
| 5. Fan Speed | 10. Horn | 16. Safety Belt Cutter and Window Hammer |
| | 11. Speedometer | 17. Glove Compartment |
| | | 18. Grab Handle |

UPPER CONTROLS



1. Heated Seats (Front / Rear Left Seat)
2. Drive Mode Selector
3. Traction Control (top) / Windshield Washer Spray (bottom)

4. Windshield Wipers
5. Light Bar (top) / Dome Lights (bottom)
6. Auxiliary Plug (Front)

7. Auxiliary Plug (Rear)
8. Heated Seats (Front / Rear Right Seat)

Charging

WARNING

When connecting the portable EV charger to any outlet, the circuit used to charge the vehicle must be appropriate for EV charging. Make sure that it is properly grounded and compliant with all local codes and ordinances. If there is doubt as to whether the circuit is appropriate, check with a qualified electrician.

DO NOT under any circumstance use an extension cord to connect the charger to any outlet.

Opening the Charge Port

Park the Brawley™ to ensure that the charge cable can easily reach the charge port and ensure the charger is connected to the wall outlet (if charging with a level 1 charger).

The charge port is located at the rear of the Brawley™, behind the center panel.

1. Lift the center panel to reveal the charging port.

Connecting a charger

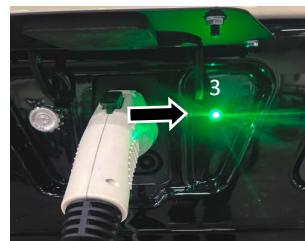
2. To charge the Brawley™, plug the appropriate connector (CCS Combo 1) into the vehicle's charging port. Align the connector to the charge port and insert fully.

When the connector is properly inserted, the charge port will lock and charging begins automatically.

3. The charge port light will turn on and pulse when charging.



CCS COMBO 1



During Charging

During charging, the charge port light pulses green to show the battery is charging and indicate how much the battery system is charged. If the battery charge is low, the green light will pulse slowly.

As the charge level increases the charge port light pulses will become more rapid. When the battery is charged the charge port light will stay constantly lit.

You can also reference your battery level gauge for blinking light indicating that the charge is occurring, the speedometer digital display for estimated time to complete charge and the Vanderhall™ application on your phone for battery information.

If the charge port light is not pulsing green but rapidly flashing three times, stopping and flashing three times again, this indicates that there may be a problem.

The vehicle will charge to and stop at 80% charge when plugged in to preserve long term battery health. Press the + or - buttons on the steering wheel to change the charge target while the vehicle is connected to the charger.

Removing the Charge Cable

The vehicle will lock the charger in the charge port to prevent the cable from being removed by others during the charge.

When the charge is complete, the charger will automatically unlock from the charge port and will be removable without unlocking the vehicle.

To remove before a charge is complete, swipe the key card on the key card reader or access the mobile app to unlock the vehicle and the charge port will unlock.

Press the charge connector release button and pull the charge connector to release from the charging port.

Troubleshooting Charge Issues

Troubleshoot the issue by disconnecting and reconnecting the charger and checking your charge state in the mobile app.

If a problem persists, contact your Vanderhall™ dealer for assistance.

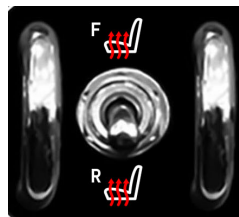
Seats

Heated Seats

To turn on the heated seats, press the switch that corresponds to the seat you wish to heat.

Press the switch again in the same direction to turn the seat heater off.

SEE HEATED SEATS → 41 



Seat Adjustment

To adjust the seat:

1. Pull the handle at the front of the seat or push the handle at the back of the seat.
2. Slide the seat to the desired position and release the handle
3. Try to move the seat back and forth to ensure it is locked in place.

SEE SEAT ADJUSTMENT → 41 



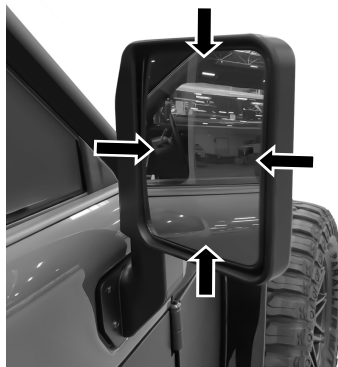
Safety Belts



Refer to the following section for important information on how safety belts properly:

SEE SAFETY BELTS → 43 

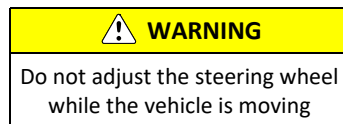
Mirror Adjustment



The mirrors are manually adjustable.

To adjust mirror, gently push on the edges of the glass to move the mirror to the desired position.

Steering Wheel Adjustment



To adjust the steering wheel:

1. Pull the lever down.
2. Move the steering wheel up, down, forward, and backward.
3. Push the lever up to lock the steering wheel in place.

Climate Control



1. The climate control temperature can be raised or lowered by pressing the temperature switch up or down.
2. The fan speed control dictates the speed of the air exiting the vents. Air speed can be raised or lowered by pressing the fan switch up or down.

SEE CLIMATE CONTROL → 55

Windshield Wipers

The Brawley™ comes equipped with 2 full-size windshield wipers. The wipers have 2 speeds.

Press the wiper switch up to turn on and increase wiper speed. Press the switch down to decrease speed and to turn the wipers off.



Windshield Washer

To activate the windshield washer system, press and hold the washer switch until the windshield has been cleaned to your liking.

The wipers will automatically turn on as the fluid is sprayed and will turn off when you release the switch.

Washer fluid can be refilled by accessing the frunk.



SEE FLUIDS → 74 

Stereo Bluetooth®

The Bluetooth® system allows users with a Bluetooth® enabled device to play audio on the vehicle speakers and subwoofer (if equipped).



SEE BLUETOOTH → 54 

Cruise Control

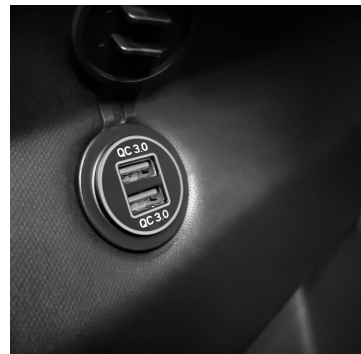
Cruise control allows a driver to set the vehicle's speed of travel without the need to continue pressing the accelerator pedal to maintain speed.



SEE CRUISE CONTROL → 67 

USB Outlet

The Brawley™ is equipped with USB (type A) outlets, for charging only, near each rear seat and in the glove compartment.



SEE POWER OUTLET → 48 

Hood

To open the hood, power on and unlock the vehicle, then push the hood release button and lift the inner panel from the back of the hood forward. Take care to make sure the hood completely closes after you have opened it.



1. Windshield Washer Fluid Reservoir Cap
2. Brake Fluid Reservoir Cap

Fluid refill caps are located under the hood. For information on appropriate fluids to use when refilling.

SEE VEHICLE CHECKS ➔74 and 75 

Controlling access to your vehicle with the Vanderhall Mobile App

Each Brawley™ comes with 2 physical key cards. In addition to these keys, the Vanderhall™ Mobile App functions as a key and can control many features.

The Mobile App will allow you to add other users and grant them digital keys and create additional physical key cards, if needed. Digital key users will need to download the Mobile App and create an account before you can connect them to your vehicle and create keys.

Some features will be available at the time of the initial vehicle release. Other planned features may not be available upon release and may be implemented over time to enhance the Vanderhall™ Mobile App and Brawley™ experiences.



Seats and Restraints

Seats and Restraints

Seats

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Seats

Seat Adjustment



WARNING

You can lose control of the vehicle if you try to adjust a driver seat while the vehicle is moving. Adjust the driver seat only when the vehicle is not moving.

To adjust the front seats or slide the front seats forward:

1. Pull up on the handle at the front of the seat.
2. Slide the seat to the desired position and release the handle.

There is also bar at the back of the front seats as well to allow passengers in the rear seats to slide the front seat forward to assist with rear seat exiting.



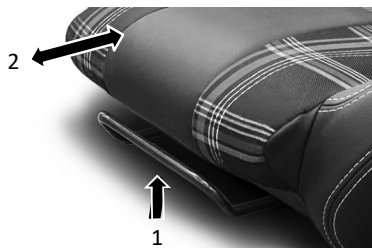
Heated Seats



WARNING

If you cannot feel temperature change or pain to the skin, the seat heater may cause burns. To reduce the risk of burns, people with such a condition should use care when using the seat heater, especially for long periods of time.

Do not place anything on the seat that insulates against heat, such as a blanket, cushion, cover, or similar item. This may cause the seat heater to overheat. An overheated seat heater may cause a burn or may damage the seat.



To turn the heated seats on, press the heated seat switch that corresponds to the desired seat.

The gauge will display an "X" in one or more of the corners of the display to indicate which seat(s) is being heated.

To turn the heat off, press the switch again in the same direction.



Safety Belts

WARNING

Do not let anyone ride where a safety belt cannot be worn properly. In a crash, if you or your passenger(s) are not wearing safety belts, injuries can be much worse than if you are wearing safety belts. You can be seriously injured or killed by hitting things inside the vehicle harder or by being ejected from the vehicle. In addition, anyone who is not buckled up can strike other passengers in the vehicle.

It is extremely dangerous to ride in a cargo area, inside or outside of a vehicle. In a collision, passengers riding in these areas are more likely to be seriously injured or killed. Do not allow passengers to ride in any area of the vehicle that is not equipped with seats and safety belts. Always wear a safety belt, and check that all passengers are properly restrained.

The Brawley™ comes equipped with full-size sport seats with built-in, 4-point harness safety belts for up to 4 people of adult size.

This section of the manual describes how to use safety belts properly. It also describes some things not to do with safety belts.



Why Safety Belts Work



When riding in a vehicle, you travel as fast as the vehicle does. If the vehicle stops suddenly, you keep going until something stops you. It could be the windshield, the instrument panel, or the safety belts.

When you wear a safety belt, you and the vehicle slow down together. There is more time to stop because you stop over a longer distance and, when worn properly, your strongest bones take the forces from the safety belts. That is why wearing safety belts make such good sense.

How to Wear Safety Belts Properly



WARNING

You can be seriously injured, or even killed, by not wearing your safety harness properly.

- Never allow the harness to become loose or twisted.
- Never wear the shoulder straps without securing the latch plate into the buckle across your body.
- Never drive or ride in the vehicle without correctly wearing and securing the harness.
- Never buckle the safety belt behind you and rest your back on the harness.



WARNING

Avoid quick, repeated pulling of the seat belt, as this may trigger the locking mechanism and permanently prevent retraction of the seat belt.

This section is only for people of adult size. Follow these rules for everyone's protection. It is especially important for all occupants to buckle up.

Do not attempt to install a child seat.

Statistics show that unbelted people are hurt more often in crashes than those who are wearing safety belts.

There are important things to know about wearing a 4-point harness safety belt properly:

- Sit up straight and always keep your feet on the floor in front of you.
- Wear the harness snugly over the shoulders, around the hips and across your body. These parts of the body are best able to take belt restraining forces. The shoulder belts lock if there is a sudden stop or crash.

Securing The Harness

All seats have a 4-point harness safety belt. The following instructions explain how to wear a harness properly:

1. Sit up straight.
2. Insert your arms under each vertical belt of the harness until the belt rests squarely on your shoulders and around your hips. Do not let the vertical belt become twisted.
3. Grasp the latch plate and pull the belt across your body. Do not allow the belt to become twisted.
4. Push the latch plate into the buckle until a click is heard.
5. Grasp and pull the thin black nylon straps upward to tighten the harness snugly on your shoulders until the buckle is across your chest.

If you ever have any questions or concerns about your harness safety belts, contact your Vanderhall™ dealer for assistance.

Drivers Checks

Do your driver checks before setting off and ensure all riders are fully and correctly secured and buckled in.

Riders that cannot fit properly in the seat and harness, cannot ride in the vehicle. The vehicle has no connections for a child seat, do not attempt to use one. As the owner or operator, it is your responsibility to ensure that all riders can safely enjoy the vehicle.

A safety belt message will appear in the gauge if a seat detects an unbuckled person. An icon will display an "X" in one or more of the corners of the display to indicate which seat(s) is unbuckled.



Remove Cargo From Seats

Remove objects from the seats and store them in the cargo area.

Unlatching The Harness

To unlatch the harness, press the red button on the buckle on your waist and pull the thin black nylon harness straps down and forward to loosen the vertical belt.

Speed Limited Safety Belt Feature

The Brawley™ will not travel faster than 15 mph if the drivers seat senses an occupant that has not been properly buckled into the harness.

A safety belt alert message will appear in the digital display to alert the driver to buckle up and the vehicle will not travel faster than 15 mph until properly buckled.

Safety Belt Cutter and Window Hammer

The vehicle is equipped with a safety belt cutter and window hammer tool in an emergency.

The tool is located on the dashboard below the lower switch panel.

The cutter can be used in an emergency to cut a safety belt strap if it will not unlatch.

The window hammer can be used on the driver and passenger door windows in an emergency when a door cannot be opened by hitting the corner of the glass with the spike. It does not work on the windshield or rear glass. Shield eyes before shattering glass.



Instruments & Controls



Instruments and Controls

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Steering Wheel
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Steering Wheel Adjustment



To adjust the steering wheel:

1. Pull the lever down.
2. Move the steering wheel up, down, forward, and backward.
3. Pull the lever up to lock the steering wheel in place.

Do not adjust the steering wheel while driving.

Steering Wheel



1. Right Turn Indicator button
2. Left Turn Indicator button
3. High Beam Light button
4. Cruise Control button

Gear Selector



Press the + or - buttons on the steering wheel to shift.

Horn



Press the Steering Wheel Pad to sound the horn.

USB Outlet

CAUTION

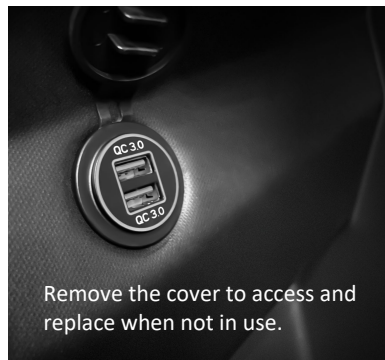
Always unplug electrical equipment when not in use and do not plug in equipment that exceeds the maximum 5 amp rating.

The Brawley™ is equipped with USB (Type A) outlets in the glove compartment and near each rear seat.

Certain accessory power plugs may not be compatible with the accessory power outlet and could overload vehicle or adapter fuses.

If a problem is experienced, contact your Vanderhall™ dealer.

When adding electrical equipment, be sure to follow the proper installation instructions included with the equipment.



Warning Lights, Gauges, and Indicators

Warning lights and gauges can signal that something is wrong before it becomes serious enough to cause an expensive repair or replacement.

Paying attention to the warning lights and gauges could prevent injury.

Some warning lights come on briefly when the vehicle is started to indicate they are working.

When one of the warning lights comes on and stays on contact your Vanderhall™ dealer.

Waiting to do repairs and driving the vehicle with these warnings can be costly and even dangerous.

Instrument Cluster



Speedometer

The speedometer shows the vehicle's current traveling speed.

Vehicle Odometer

The odometer shows how far the vehicle has been driven, in miles.

The odometer will display whenever the vehicle is powered on or off and can be viewed in your mobile app.

Trip Odometer

The trip odometer shows how far the vehicle has been driven since the trip odometer was last reset.

Dimming the Gauges

Press the gauge button twice to display the brightness meter.

Press the button again when the brightness meter is displayed to change the brightness level.



Power Gauge

The power gauge indicates how much energy you are using while operating the vehicle. When accelerating, the needle will show your power consumption. When utilizing regenerative braking, the charge level returning to the battery system will be shown.

1. Brake Warning Light
2. Traction Control Light
3. Temperature Warning Light
4. Battery Charge Level



Battery Level Gauge

The battery level gauge indicates about how much is currently stored in the battery.

When the battery reaches 15% charge, the low battery (1) warning light will turn on. There is still a little battery power left, but the vehicle's battery should be charged soon. Continuing to use the vehicle on a low charge may result in loss of power and speed.

The HVAC system will turn off when there is 7% charge or less remaining.

At less than 5% charge remaining, the vehicle will ramp down speed until you are no longer able to move. If powered off, the vehicle will still power on but will not shift into Drive or Reverse. You will still have Park and Neutral as an option so that the vehicle can be towed to a charge location. The vehicle must be charged at this point to prevent potential permanent damage to the battery system.

At less than 1% charge, the vehicle will not be able to turn on and you will not have access to Neutral for towing. Do not attempt to power on the vehicle again until after charging.

Battery Pre-Conditioning Alert

This alert will appear in the digital display if the high-voltage batteries internal temperature is below or above operating temperatures or if there may be an energy imbalance between the battery packs. The vehicle will begin cooling or heating the battery to manage temperatures and the battery packs will balance any uneven voltages between battery cells.

Vehicle performance such as power, speed, range and cabin heating/cooling may be temporarily affected while the system balances the battery to expected operating levels and temperatures.

Once the battery has reached desired temperature levels or balanced voltage, the icon in the digital display will close and the vehicle is now ready to operate normally.



Malfunction Indicator Lamp (Check Engine Light)

CAUTION

If the vehicle is driven continually with the malfunction indicator light on, the mileage range may be lower, and the vehicle may not run smoothly. This could lead to costly repairs.

CAUTION

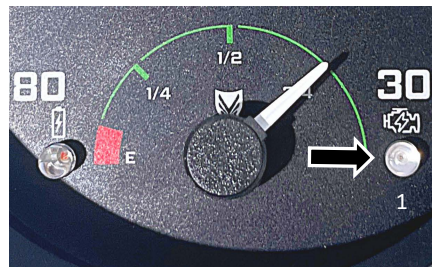
Modifications to the vehicle or the use of replacement tires that do not meet the original tire specifications, can cause the malfunction indicator light to come on. This could lead to costly repairs. This could also affect the vehicle's ability to pass an Inspection / Maintenance test.

1. This light is part of the vehicle's on-board diagnostic system.

If this light is on while the vehicle is on, a malfunction has been detected and the vehicle may require service. Contact your Vanderhall™ dealer for service.

Malfunctions are often indicated by the system before any problem is noticeable while operating the vehicle. Being aware of the light and seeking service promptly when it comes on may prevent damage.

An error code can be accessed in your mobile phone app to help identify the location of the malfunction.



Thermal Runaway Warning Alert

The thermal runaway event warning will appear in the display in the event that an issue internally in the battery pack(s) has caused a critical system failure that the batteries management systems may not be able to stop.

In the event that this alert appears, pull off the path of travel. Once at a complete stop, shift into park and exit yourself and any passengers from the vehicle.



Temperature Warning Light

The temperature warning light (1) will illuminate in the event that a motor or the battery temperature is too high.

In the event that the light turns on, the vehicle may reduce the available power and drive modes to allow the components to cool to normal operating temperatures.

If the light does not turn off, contact a Vanderhall™ dealer for service.



Regenerative Brake Warning Alert

When the battery charge level is 100%, a brake warning light (2) will display indicating that the regenerative brakes are disabled and you will need to use the brake pedal for all braking.

When the charge in the battery falls below 98%, this message will turn off and regenerative braking will be active.

SEE REGENERATIVE BRAKES → 65 

Cruise Control Alert

The cruise control alert symbol and cruising speed appears in the odometer display screen when cruise control is currently active.

Bluetooth® Audio



WARNING

Taking your eyes off the trail for too long or too often while using any radio feature can cause a crash. You or others could be injured or killed. Do not give extended attention to the audio controls or Bluetooth® audio devices while driving. Limit your glances at the vehicle displays and focus your attention on driving.

Introduction

The vehicle is equipped with a Bluetooth® receiver that can be used for playing audio tracks. After you have connected, your device will automatically connect in the future as long as you are using the same mobile device.

See your phone manufacturer's user guide for Bluetooth® functions before pairing the cell phone.

Pairing Devices

1. Power up and unlock the vehicle.
2. Go to settings on your device. Turn on Bluetooth® and locate BRAWLEY_XXXX (XXXX being the last 4 digits of your VIN).
3. Select VBRAWLEY_XXXX to pair your device and pair when prompted on your device.
4. Once a device is paired to the vehicle it will automatically reconnect to your device.
5. If there is no device for the vehicle to connect to, it will automatically go into pairing mode to connect with another device.
6. If pairing is unsuccessful, select "Forget This Device" in your phones Bluetooth® settings and start over.

Audio Controls

Use the Bluetooth® switch to control your volume and track selection.

Play music: Select a track on your mobile device while connected to the vehicles audio system to begin playing.

Adjust volume: Press the switch up or down while a track is playing. Continue toggling the switch up or down until desired volume levels are reached.

Skip one track forward: Press the switch up and hold for 3 seconds.

Restart track: Press the switch down and hold for 3 seconds.

Climate Control Systems

The climate control systems control the heating, cooling, ventilation speed, circulation and defrost for the vehicle.

The gauge display will temporarily display climate information like temperature and fan speed as you adjust the switches.



Climate Control Interface

Temperature Control:

1. Press the switch up or down to increase or decrease the interior temperature.



Fan Control:

2. Press the switch up or down to increase or decrease the speed of the air flowing from the vents.



Circulation Control:

3. Press the switch up to change the circulation of the air. This allows fresh air to enter the vehicle, which works best when the heater is on, or recirculates the air already in the vehicle when using the air conditioning.

Defrost Control:

4. Press the switch down to turn on or off the rear window defroster when needed.



Lighting



Lighting

- 58 Running Lights
 - Low-Beam Headlamps
 - High-Beam Headlamps
 - Hazard Warning Flash
- 59 Turn And Lane Change Signals
 - Lightbar
 - Dome Lights



Running Lights

1. Toggle the switch down to activate and deactivate the front and rear running lights.

Low-Beam Headlamps

2. To activate or deactivate the low-beam lights, press the headlight switch, located on the dashboard control switch panel, up.



High-Beam Headlamps

To activate or deactivate the high-beam lights, press the high-beam button on the rear of the steering wheel under the left turn signal button.

The speedometer high-beam indicator light will illuminate whenever the high-beam lights are active.



Hazard Warning Flashers

Toggle the switch up to activate or deactivate the hazard warning flashers.

Both turn signal indicator lights on the speedometer will illuminate and flash whenever the hazard warning lights are active.



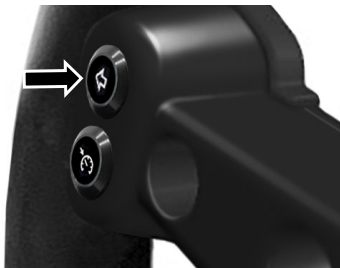
Turn and Lane-Change Signals

Push the buttons on the back of the steering wheel to indicate which direction you want to signal.

The turn signal indicator light in the speedometer will blink in the direction of the turn or lane change.

The turn signal will turn off after completing a turn.

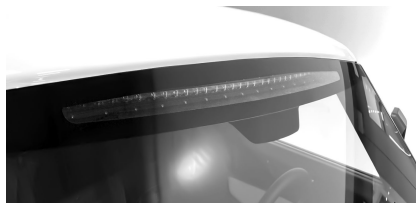
Press the button again to cancel the light.



Light Bar

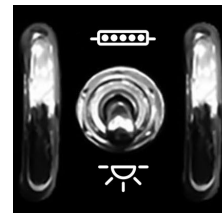
For increased off-road visibility, the vehicle features an integrated 24-inch front facing light bar.

To operate the light bar, press the light bar switch upward to turn the light bar on or off.



Dome Lights

To operate the interior dome lights, press the dome light switch downward.



A close-up, low-angle shot of a heavy-duty vehicle's rear wheel and tire. The tire is a large, black, off-road tire with a deep tread pattern. The sidewall of the tire features the word "ATLAS" in large, bold, raised letters. Above "ATLAS", the size "35x12.50R15" is visible. The wheel is a dark, multi-spoke alloy wheel. The center cap of the wheel has the words "VANDERHALL" at the top and "MOTOR WORKS" at the bottom, surrounding a central logo. The background shows the side of a vehicle with a red and white paint scheme, partially obscured by the wheel. The overall lighting is dramatic, with strong highlights and shadows.

Driving & Operation

Driving and Operation

62 Parking Brake
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 Using Regenerative Brakes

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68 AWD - All Wheel Drive
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69 Low Speed Drive Modes

70 High-Voltage Battery



❗ Parking Brake

The electronic parking brake in your Brawley™ will automatically engage when shifted into park.

Whenever engaged, the brake warning light will illuminate.



Parking in Drive Modes

The vehicle will enter park in any drive mode. However, you should place the vehicle in all wheel drive (AWD or 4x4) or rear wheel drive (RWD) before parking and powering the vehicle off.

This will prevent you from being in an unexpected mode during the next start up.



Shifting out of Park

To shift the vehicle out of Park, press and hold the brake pedal down and press the shift button on the right side of the steering wheel. This will allow you to select Reverse, Neutral or Drive.

To return to Park, place and hold your foot on the brake pedal and press the shift button on the left side of the steering wheel to cycle through the gears back to Park.

Wait until the parking brake has engaged completely before trying to shift back out of Park.

The drive position will also be displayed on the odometer as you select the mode.

The vehicle will not shift out of park if the brake pedal is not held down while pressing the shift buttons.

Shifting

Park (P): Used when parking the vehicle.

Reverse (R): Used when reversing the vehicle.

Neutral (N): In this state, the motors are inactive. This allows the vehicle to coast or to be moved manually.

Drive (D): Used for normal driving.



Park Safety

If the vehicle has not been placed in park by the operator, the vehicle can automatically shift into park and engage the parking brake if a key card is used to lock and power down the vehicle or whenever a charge cable is connected to the charging port.

Brake Safety

In the event that the brake pedal and accelerator pedal are pressed simultaneously, the brake warning light indicator will flash 5 times to alert the operator of reduced vehicle power.

Do not press both pedals at the same time to avoid a reduction in power while operating the vehicle.



Keep Your Key Card and Phone With You

While the process for parking and exiting the Brawley™ is quick, simple and convenient, it can be also be easy to exit the vehicle and forget the key card and/or phone needed to unlock the vehicle.

If the operator exits the vehicle without these items, they may be locked out if there is not another passenger in the Brawley™ to open the door(s).

Vanderhall™ recommends that you always have the vehicle's key card and phone on your person when exiting the vehicle to avoid a possible lockout.

In the event you find that you are locked out of your Brawley™, contact your Vanderhall™ dealer for support and assistance.

Regenerative Braking



WARNING

Do not rely solely on the regenerative braking system to stop your vehicle. The vehicle is equipped with a hydraulic braking system and a brake pedal in case a sudden stop is necessary before the regenerative braking system can stop the vehicle.

Note

Regenerative braking may be reduced temporarily when the vehicle battery is cold, fully charged, or almost fully charged. Always be ready to press the brake pedal to slow or stop the vehicle.

Regenerative braking happens automatically when you lift your foot off the accelerator pedal. This captures energy and increases range. It also saves wear and tear on the brake pads.

The brake lights automatically illuminate during regenerative braking to warn other drivers when the vehicle slows down.

Using Regenerative Brakes

Slowly lift off the accelerator pedal and the vehicle will begin slowing down.

Regenerative braking is not available all the time. If the battery level is high, this feature may be limited or unavailable to ensure that the battery cannot overcharge during braking.

A message will display in the digital display when regeneration is unavailable.

You must use the brake pedal to bring the vehicle to a stop when regenerative braking is not active.

Remember: Regenerative braking does not change the time needed to get a foot up to the brake pedal or always decrease stopping distance. If you get too close to the vehicle in front of you, there will not be enough time to apply the brakes if that vehicle suddenly slows or stops. Always leave enough room up ahead to stop, even with regenerative braking.

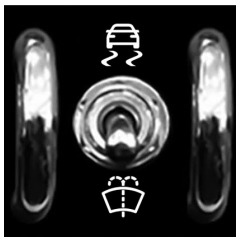
Traction Control

The vehicle can monitor the traction and wheel speed of your wheels and tires. This monitoring allows the Brawley™ to correct motor speed and torque if one or more wheels begins to slip or lose traction.

Traction control may be disabled in all wheel drive (AWD) and rear wheel drive (RWD) modes.

Traction control is always active in low speed driving modes and cannot be turned off.

Use caution when traveling with traction control disabled on slippery, loose or icy surfaces where tire grip and traction may suffer. Give yourself plenty of space and time to execute turns and lane of travel changes. Avoid abrupt turns and stops whenever possible.



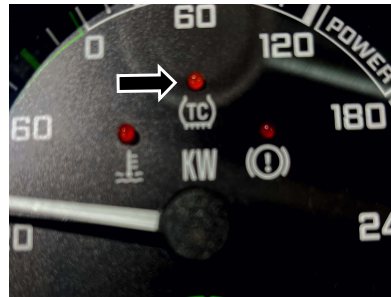
Turning Traction Control Off and On

Traction Control (TC) can be turned off and on by pressing up on the traction control switch, located on the upper controls panel.

The TC light will illuminate in the dash whenever traction control is off.

The light may also temporarily illuminate when driving if the traction control system is on and senses wheel slip or traction loss.

Take care to familiarize yourself with the vehicle when TC is off by practicing at low speeds in a large open area, free from obstacles and traffic until you are comfortable with your vehicles driving behavior.



Cruise Control

WARNING

NEVER move your feet away from the pedals while in cruise control. Vehicles and obstacles ahead may require you to abruptly brake. Be ready to brake at any moment in cruise control.

The cruise control system will allow the vehicle to maintain a speed of about 25MPH (40 km/h) or more without the driver keeping their foot on the accelerator pedal.

Setting Cruise Control:

When the vehicle is traveling at the desired speed, push the Cruise Control button on the back of the steering wheel located under the right turn signal indicator button to turn the cruise system on.

The odometer display will show the cruise symbol and the set traveling speed.

Deactivating Cruise Control:

To deactivate cruise control, press the cruise control button again or the brake pedal momentarily to disable cruise control. The cruise control message will turn off.

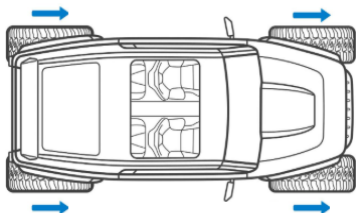
The vehicle will immediately begin to regenerative brake if you are not actively engaging the accelerator pedal.



Drive Modes

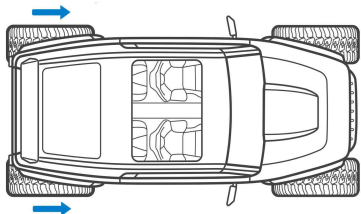
All Wheel Drive - 4x4 (Default)

The default driving mode when the vehicle is turned on. In this mode, all four motors are powered on and move the wheels and tires in the selected direction.



Rear Wheel Drive - RWD

In this mode, the front motors will turn off and the rear motors will power the rear wheels to move the vehicle.



Low Speed Drive Modes*

To select drive modes, toggle the drive mode switch up or down while the vehicle is stopped or traveling at less than 15mph. You may need to momentarily lift off the accelerator as you feel the vehicle coast before the new mode will fully engage. Drive modes will appear in the display.

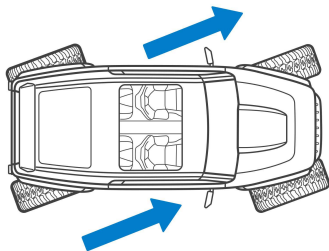
The display may show an hourglass when changing modes. This means the vehicle is preparing the rear steering unit for the correct mode which may take a few seconds to completely engage. Wait until the hourglass symbol is replaced with the shift position (PRND) before attempting to move.



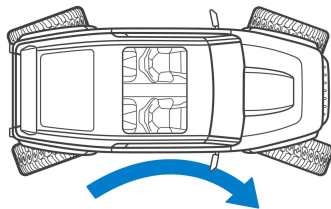
To change to another mode or return to standard driving configuration, continue to toggle the drive mode switch up or down until reaching the desired mode.

Available Low Speed Drive Modes may vary depending on vehicle model

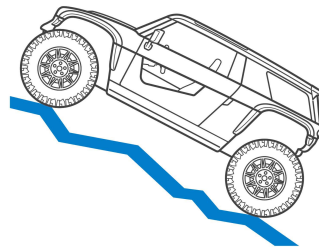
Low Speed Drive Modes

ecrab™

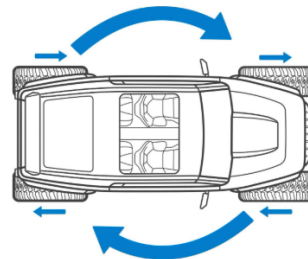
This mode allows all four wheels to turn in the same direction, enabling the vehicle to move forward and slightly to the side at the same time.

esteer™

This mode turns the front and back wheels in opposite directions, enabling the vehicle to make a tighter turn than standard front wheel turning.

ecrawl™

This mode slows down motor and wheel speed for maximum torque and grip while ascending and limits speed while descending steep terrain.

etank™

This mode allows the left and right wheels to spin in opposite directions, tightening the turning radius of the vehicle.

15 mph
24 kmh

All Available Low Speed Drive Modes are limited to speeds of less than 15 mph (24 kmh).

High Voltage Battery System

WARNING

Improper use of the battery can result in severe injury or death. Do not attempt to touch or disconnect any high voltage cables or connections. The Battery has no parts that an owner can service. Under NO circumstances should you open or tamper with the Battery. Always contact your local Vanderhall™ dealer to arrange for Battery servicing.

- If you are in an accident, exit the vehicle as soon as safely possible.
- If you see or smell smoke, bring the vehicle to a stop and exit as soon as safely possible.

CAUTION

When left idle and unplugged, your vehicle occasionally uses energy from the high voltage battery system for system tests and wireless updates.

If you allow the high voltage battery to discharge to 0%, components may become permanently damaged and require replacement.

The vehicle operates with a high voltage battery system that requires charging. The best way to preserve the battery is to leave the vehicle plugged in when it is not in use.

The vehicle will automatically turn charging off when the battery reaches 80% full. If an additional charge is needed to fill the battery to 100%, press and hold the "Up" arrow on the steering wheel or increase the charge level using the mobile app.

There is no advantage to waiting until the battery level is low before charging.

There are no parts of the battery system that you should attempt to touch, modify or service.

The high voltage system has no user-serviceable parts. Do not attempt to disassemble, remove or replace high voltage components, cables or connectors. High voltage cables are colored orange for easy identification.



Vehicle Care

Vehicle Care

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General Information

For service and parts contact your Vanderhall™ dealer for the highest quality replacement parts.

California Proposition 65 Warning

Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including phthalates and lead, 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

California Perchlorate Materials Requirements

Certain types of automotive applications such as lithium batteries contained in Remote Key-less Entry transmitters, may contain perchlorate materials. Special handling may be necessary.

For additional information, see

www.dtsc.ca.gov/hazardouswaste/perchlorate

Accessories and Modifications

Adding third party(non-Vanderhall) accessories or making modifications to the vehicle can affect vehicle performance and safety, including such things as braking, stability, ride and handling, emissions systems, aerodynamics, durability, and electronic systems like traction control. These accessories or modifications could even cause malfunction or damage.

Vehicle Checks

The Brawley™, being an electric vehicle, will not require much of the maintenance work a traditional internal combustion engine vehicle needs.

However, it is important to monitor for any leaks, cracks, rattling, charging and range issues or other unexpected issues.

Service the vehicle with an authorized Vanderhall™ dealer at regular intervals to maintain your Brawley™ and to protect your investment.

Fluids**Windshield Washer Fluids**

The fill cap to refill the windshield washer fluid reservoir is located in the frunk on the vehicle's passenger side.

Fill the reservoir with standard or all-season washer fluid before each use to ensure maximum visibility while the Brawley™ is in use.

Do not fill the reservoir with water. Freezing temperatures can damage the reservoir and washer system if plain water is used.

Brake Fluid



WARNING

Brake fluid should only be added when the braking system is serviced. Brake fluid can damage and degrade painted surfaces and plastics or become flammable when contacting hot components. It is important to wash off excess or spilled brake fluid immediately with soap and water to protect your Brawley.



WARNING

Using the wrong or contaminated brake fluid could result in damage to the vehicle and braking system. This could lead to the loss of braking and possible injury. Always use the proper brake fluid from a clean, sealed container and clean the cap and area around the reservoir before opening.

The brake fluid reservoir's fill cap is located in the frunk on the driver's side of the vehicle. The reservoir and braking system are filled with DOT-4 brake fluid, as indicated on the reservoir cap.

There are only two reasons why the brake fluid reservoir might be low:

1. Normal brake pad wear. As pads wear down, fluid in the reservoir will appear lower. This will be corrected when the brakes are serviced, and new pads are installed. This is not an indication that there is a problem with the braking system that needs repair.
2. A fluid leak in the braking system. Have the braking system repaired as soon as possible. Contact your Vanderhall™ dealer for information on vehicle servicing.

Do not top off brake fluid. If fluid is added when brake pads are worn, there will be too much fluid when new brake pads are installed, or hard braking is performed. Overfilling the reservoir can cause the cap to rupture under vehicle braking conditions, spraying excess brake fluid onto parts of your vehicle.

Brake fluid absorbs water over time. Replace brake fluid at specified intervals to maintain optimal brake performance.

SEE MAINTENANCE SCHEDULE ⇨ 93

What Brake Fluid to Add

Use only **DOT-4** brake fluid from a clean, sealed container.

**Battery****⚠ WARNING**

- The battery, high voltage wiring, and connectors have no parts that an owner can service. Under NO circumstances should you open or tamper with the Battery, high voltage wiring or connectors. Always contact your Vanderhall™ dealer to schedule Battery servicing.
- If a collision occurs, exit the vehicle as soon and as safely possible.
- If you see or smell smoke, locate a safe spot to stop and exit the vehicle immediately.
- The Battery requires NO owner maintenance.
- If your Brawley™ is left uncharged for an extended time, total discharge and costly permanent damage may occur.

The Brawley™ has been designed and built with safety as a priority.

Be aware of these precautions to protect yourself from risk of injury inherent in all high-voltage systems:

- Read and follow all instructions provided on the labels attached to the vehicle. These labels are for your safety and should never be removed.
- Read and follow all instructions provided within this manual.

The most important way to preserve the high voltage battery is to LEAVE YOUR VEHICLE PLUGGED IN when you are not using it. This is particularly important if you are not planning to drive for several weeks.

There is no advantage to waiting until the battery's level is low before charging. In fact, the battery performs best when charged regularly.

To ensure maximum battery life and safety, the battery charge rate is decreased when the Battery is too cold and when the battery conditions change with usage and age. These changes in the condition of the battery are driven by battery physics and may increase the total charging duration over time.

Vehicle Storage

When the vehicle is not in use but still powered on, vehicle management systems may use a small amount of energy for periodic system checks and wireless updates. When the vehicle is stored for an extended period, it is important to make sure the power knob has been turned to the off position.

Leaving the vehicle for extended periods while it is on and disconnected from the charger can result in complete battery discharge and may damage vehicle components.

Exterior Lighting

Headlamp Aiming

Headlamp aim has been preset and should need no further adjustment. If the vehicle is damaged in a crash, the headlamp aim may be affected. If adjustment to the headlamps is necessary, contact your Vanderhall™ dealer.

Headlamp Wiring

An electrical overload may cause the lamps to go on and off, or in some cases to remain off. Have the headlamp wiring checked right away if the lamps go on and off or remain off.

Bulb Replacement

All of the vehicles exterior lighting including headlamps, tail lights, turn signals, and license plate light are LED and are not serviceable. Should a lamp fail contact your Vanderhall™ dealer for a replacement

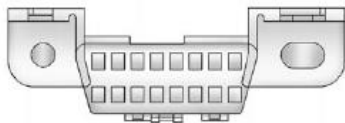
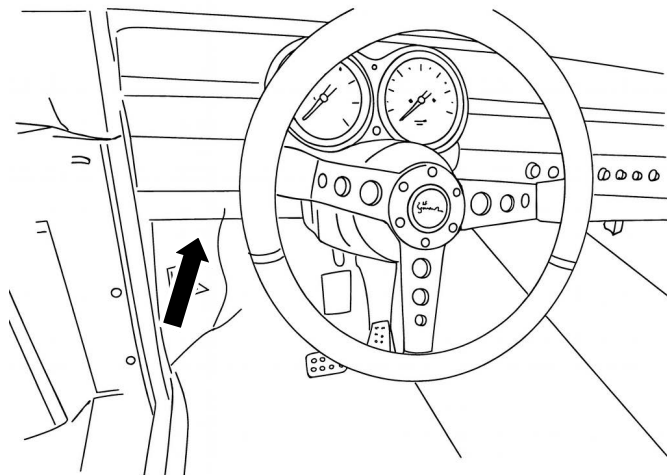
OBD Port

The Brawley™ is a Zero Emissions Vehicle and is exempt from Federal Emissions Standards and California Emissions Standards.

If the vehicle requires a Safety Inspection/Maintenance test, the test equipment will likely connect to the vehicle's Data Link Connector (DLC) otherwise known as the OBD Port.

The DLC is located under the dashboard to the left of the steering wheel. Connecting devices not used to perform an inspection/ maintenance test or to service the vehicle may affect vehicle operation and potentially void your vehicles warranty.

The vehicle may not pass safety inspections, where required, if the check engine light is on when the vehicle is powered on. Contact your Vanderhall™ dealer if the vehicle's check engine light is illuminated, will not pass or cannot be made ready for the test (where required).



Electrical System Overload

The vehicle has fuses and circuit breakers to protect against an electrical system overload.

When the current electrical load is too heavy, the circuit breaker opens and closes, protecting the circuit until the current load returns to normal or the problem is fixed.

This greatly reduces the chance of circuit overload and fire caused by electrical problems.

Fuses and circuit breakers protect power devices in the vehicle. See your authorized Vanderhall dealer or repair center if there is an electrical system issue.



Fuses and Circuit Breakers

The wiring circuits in the vehicle are protected from short circuits by a combination of fuses and circuit breakers. This greatly reduces the chance of fires caused by electrical problems.

Look at the silver-colored band inside the fuse. If the band is broken or melted, the fuse will need to be replaced with a fuse of the same size and amperage rating.



Instrument Fuse and Relay Block

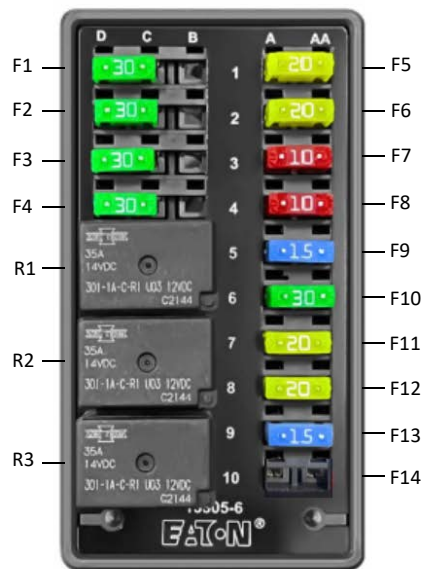


The internal fuse block can be located under the dash on the passenger side of the vehicle.

To access the fuse block, remove the fuse block cover.



Fuse/Relay	Amp Rating	Usage
F1	30	Power Train Fans
F2	30	Front Accessory Plug
F3	30	Power Train Cooling Pumps
F4	30	Rear Accessory Plug
F5	20	Motor Control Unit 1
F6	20	Motor Control Unit 2
F7	10	Switch Panels
F8	10	HVAC Compressor/Washer Pump
F9	15	HVAC Condenser Fan
F10	30	USB Ports
F11	20	Rear Window Defrost
F12	20	Stereo Amplifier
F13	15	Horn
F14	--	Empty
R1	35	HVAC Condenser Relay
R2	35	Defrost Relay
R3	35	Horn Relay



Tire Information

CAUTION

Neither tire under inflation nor over inflation is good. Under-inflated tires, or tires that do not have enough air, can result in:

- Tire overloading and overheating could lead to a blowout.
- Premature or irregular wear.
- Poor handling.
- Reduced fuel economy.

Over-inflated tires, or tires that have too much air, can result in:

- Unusual wear.
- Poor handling.
- Rough ride.
- Needless damage from ground hazards.

Recommended Tire Pressure

The recommended tire inflation pressure for front and rear is **30 psi**.

Tires

This vehicle comes with high performance off-road tires, with a tread and compound that are optimized for traction, handling and comfort while operating in off-road conditions. For additional information refer to the tire manufacturer.

The Tire Pressure and Weight Information label on the vehicle indicates the originally equipped tire size(s) and the correct cold tire inflation pressures. Tire performance varies depending on speed of travel, surfaces and environmental conditions.

When to Check

Check the tires once a month or more.

How to Check

Use a good quality pocket-type gauge to check tire pressure. Proper tire inflation cannot be determined by looking at the tire. Check the tire inflation pressure when the tires are cold, meaning the vehicle has not been driven for at least three hours or no more than 1 mile (1.6 km).

Remove the valve cap from the tire valve stem. Press the tire gauge firmly onto the valve to get a pressure measurement. If the cold tire inflation pressure matches the recommended pressure on the Tire and Loading Information label, no further adjustment is necessary. If the inflation pressure is low, add air until the recommended pressure is reached and reinstall the valve cap.

**WARNING**

Poorly maintained and improperly used tires are dangerous.

- Under-inflated tires pose a danger and could result in a crash causing serious injury. Check all tires frequently to maintain the recommended pressure. Tire pressure should be checked when the tires are cold.
- Over-inflated tires are more likely to be cut, punctured, or broken by a sudden impact such as when hitting a pothole. Keep tires at the recommended pressure.
- Worn or old tires can cause a crash. If the tread is badly worn, replace them.
- Replace any tires that have been damaged by impacts with potholes, curbs, etc.
- Improperly repaired tires can cause a crash. Only the dealer or an authorized tire service center should repair, replace, dismount, and mount the tires.

When It Is Time for New Tires

Factors such as maintenance, temperatures, driving speeds, driving behaviors, vehicle loading, and ground conditions affect the wear rate of the tires.

Tread wear indicators are one way to tell when it is time for new tires. Tread wear indicators appear when the tires have only 1.6mm (1/16 in or less of tread remaining). The rubber in tires ages over time.

Visible damage, cracking or bulging is also an indication that it is time to replace the tire.

Vanderhall™ recommends that tires be replaced after six years, regardless of tread wear. The tire manufacture date is the last four digits of the DOT Tire Identification Number (TIN) which is molded into one side of the tire sidewall.

The first two digits represent the week (01–52) and the last two digits, the year. For example, the third week of the year 2023 would have a four-digit DOT date of 0323.

Buying New Tires

Vanderhall™ has developed and matched specific tires for the vehicle. The original equipment tires installed were designed to meet specific Tire Performance Criteria Specification (TPC SPEC system rating).

When replacement tires are needed, Vanderhall™ strongly recommends buying the same manufacture and model tire as the original.

Exterior Care

CAUTION

Do not use petroleum-based, acidic, or abrasive cleaning agents as they can damage the vehicle's finish, or metal parts. Follow all manufacturer directions regarding correct product usage, necessary safety precautions, and appropriate disposal of any vehicle care product.

Washing the Vehicle

To preserve the vehicle's finish, wash it often and out of direct sunlight.

Rinse the vehicle well, before washing to remove and loosen grit and bugs.

Hand wash the vehicle using a non-abrasive cleaner marked safe for glossy surface. Rinse the area immediately with cool clean water.

Do not allow cleaning agents to dry on the surface, they could stain. Dry the finish with a soft, clean chamois or an all-cotton towel to avoid surface scratches and water spotting.

WARNING Do not use an automatic car wash or a high-pressure washing system on the Brawley, as they may damage electrical and other sensitive components.

Finish Care

Foreign materials such as calcium chloride and other salts, ice melting agents, oils and tar, tree sap, bird droppings, chemicals from industrial chimneys, etc., can damage the vehicle's finish if they remain on painted surfaces. Wash the vehicle or affected areas often to prevent damage.

Occasional hand waxing or mild polishing should be done to remove residue from the finish.

To keep the paint finish looking new, keep the vehicle garaged or covered whenever possible.

Cleaning Exterior Lamps and Emblems

Use only lukewarm or cold water, a soft cloth, and an automotive soap to clean exterior lamps and emblems. Follow instructions under "Washing the Vehicle" previously in this section.

Exterior lighting lenses are made of plastic. Do not clean or wipe them when dry as they may scratch and haze. Do not use any of the following on the lenses:

- Abrasive or caustic agents.
- Washer fluids and other cleaning agents in higher concentrations than suggested by the manufacturer.
- Solvents, alcohols, fuels, or other harsh cleaners.

**CAUTION**

To avoid surface damage, do not use strong soaps, chemicals, abrasive polishes, cleaners, brushes, or cleaners that contain acid.

**CAUTION**

Using petroleum-based tire dressing products on the vehicle may damage the paint finish and/ or tires. When applying a tire dressing, always wipe off any over-spray from all painted surfaces on the vehicle.

Tires

Use a stiff brush with tire cleaner to clean the tires.

Windshield

To clean, use a terry cloth fabric dampened with water. Wipe droplets left behind with a clean dry cloth. If necessary, use a commercial glass cleaner after cleaning with plain water.

Cleaning the windshield with water during the first three to six months of ownership will reduce tendency to fog.

Wheels

Use a soft, clean cloth with mild soap and water to clean the wheels. After rinsing thoroughly with clean water, dry with a soft, clean towel. A wax may then be applied.

Brake System

Visually inspect for leaks, cracks, chafing, etc. from brake fluid reservoir and any visible lines and hoses. Inspect rotors and brake pads for surface condition and wear.

Steering, Suspension, and Chassis Components

Visually inspect steering, suspension, and chassis components for damaged, loose, or missing parts or signs of wear at least once a year. Inspect power steering for proper hook-up, binding, leaks, cracks, chafing, etc. Visually check constant velocity joint boots and axle seals for leaks.

Finish Damage

Damaged panels can be polished or replaced. Contact your Vanderhall™ dealer to obtain replacement parts.

Interior Care

To prevent dirt particle abrasions, regularly clean the vehicle's interior. Immediately remove any soils.

Use a soft bristle brush to remove dust from knobs and crevices on the dash. Using a mild soap solution, immediately remove hand lotions, sunscreen, and insect repellent from all interior surfaces or permanent damage may result.

Use cleaners specifically designed for the surfaces being cleaned to prevent permanent damage. Apply all cleaners directly to the cleaning cloth. Do not spray cleaners on any switches or controls. Remove cleaners quickly.

Before using cleaners, read and follow all safety instructions on the label.

To prevent damage, do not clean the interior using the following cleaners or techniques:

- Never use a razor or any other sharp object to remove soil from any interior surface.
- Never use a brush with stiff bristles.
- Never rub any surface aggressively or with too much pressure.
- Do not use laundry detergents or dish washing soaps with degreasers. A concentrated soap solution will create streaks and attract dirt. Do not use solutions that contain strong or caustic soap.
- Do not heavily saturate the upholstery when cleaning
- Do not use solvents or cleaners containing solvents.

Speaker Covers

Vacuum around a speaker cover gently, so that the speaker will not be damaged. Clean spots with water and mild soap on a damp soft cloth

 CAUTION

Soaking or saturating leather may cause permanent damage. Wipe excess moisture from these surfaces after cleaning and allow them to dry naturally. Never use heat, steam, or spot removers. Do not use cleaners that contain silicone or wax-based products. Cleaners containing these solvents can permanently change the appearance and feel of leather and are not recommended.

Fabric/Leather

Start by vacuuming the surface using a soft brush attachment. If a rotating vacuum brush attachment is being used, only use it on the floor mats. Before cleaning, gently remove as much of the soil as possible:

- Gently blot liquids with a paper towel. Continue blotting until no more soil can be removed.
- For solid soils, remove as much as possible prior to vacuuming.

To clean:

If the soil is not completely removed, it may be necessary to use a commercial upholstery cleaner or spot lifter. Test a small hidden area for colorfastness before using commercial upholstery cleaner or spot lifter.

1. Saturate a clean, lint-free colorfast cloth with water. Microfiber cloth is recommended to prevent lint transfer to the fabric or carpet.
2. Remove excess moisture by gently wringing until water does not drip from the cleaning cloth
3. Start on the outside edge of the soil and gently rub toward the center. Fold the cleaning cloth to a clean area frequently to prevent forcing the soil in to the fabric.
4. Continue gently rubbing the soiled area until there is no longer any color transfer from the soil to the cleaning cloth.
5. If the soil is not completely removed, use a mild soap solution followed only by plain water.

Floor Mats



WARNING

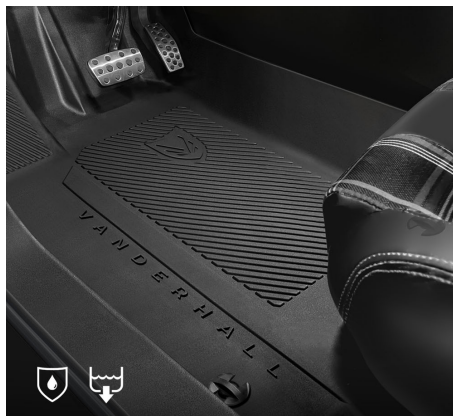
Do not allow water to fill above the top edge of the floor mats.

Cleaning the Floor Mats

The Brawley™ floors, trunk and frunk are water-proof and can be sprayed-out with water when cleaning is desired.

Remove the drain plugs and spray down with water.

The plugs can be removed by twisting them counter-clockwise 1/2 turn and pulling.

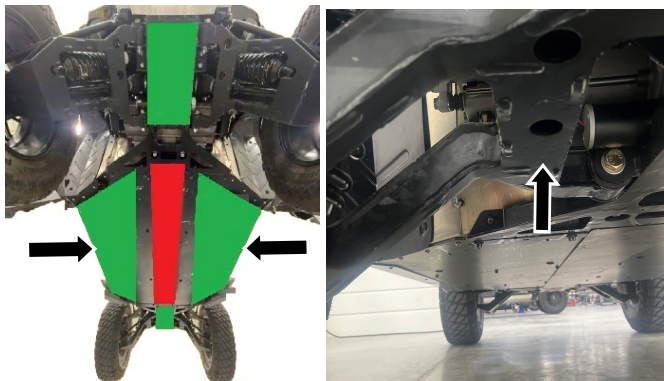


Jacking Points

The vehicle can be jacked up anywhere along the driver and passenger sides of the vehicle under-body and at the front and rear of the vehicle, behind the hitch receivers (Highlighted in green in the image below) or under the lower control arms if lifting only one wheel.

Do NOT jack along the center of the vehicle under the cabin as this is the location of the high voltage battery.

Take precautions when jacking up any vehicle. Chock the wheels to prevent tire roll, use jack stands in case of jack failure and only lift on flat and stable ground whenever possible.



Towing the Vehicle



CAUTION

Incorrectly towing a disabled vehicle may cause damage.

Do not lash or hook to suspension or steering components. Do not allow the straps to come into contact with the tie rods. Use the proper straps around the tires to secure the vehicle. To prevent roll away, do not place the vehicle in Neutral and exit the vehicle while on a slope

Have the vehicle towed on a flatbed car carrier or trailer. Consult a professional towing service if the disabled vehicle must be towed.

If flatbed or trailer towing is not an option and flat towing, (also known as tow behind towing) is needed, the vehicle must be shifted and left in the Neutral position to allow the wheels to freely rotate and to prevent the automatic parking brake from engaging.

Once connected to the tow vehicle, shift the Brawley™ into Neutral and turn the power knob counter-clockwise to the left to complete the vehicle power down cycle. The vehicle will then remain in Neutral.

If traveling to a remote area, plan ahead in case off-road recovery is needed and have any necessary supplies you may need.



Service & Maintenance

Service and Maintenance

Maintenance Schedule

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- 100 Maintenance schedule

Additional Maintenance

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- 101 Brakes
- 101 Fluids
- 101 Lamps
- 102 Shocks

Additional Maintenance cont.

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- 102 Windshield
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- 105 Recommended Fluids and Lubricants
- 106 Capacities and Specifications
- 107 Vehicle Identification Number



General Information

 CAUTION

Damage caused by improper maintenance can lead to costly repairs. Maintenance intervals, checks, inspections, recommended fluids, and lubricants are important to keep the vehicle in good working condition.

This section describes the required maintenance for the vehicle. Follow this schedule to help protect against major repair expenses resulting from neglect or inadequate maintenance.

It is the responsibility of the owner to have all required maintenance performed.

Owner Checks

Checks and Services Daily

1. Check the tire condition and inflation pressures.
2. Inspect tie rods for dents. Replace if dented before driving.
3. Check and, if needed, refill windshield washer reservoir with appropriate washer fluid.
4. Inspect the vehicle for evidence of leaks.
5. Check for vehicle software updates.

Checks and Services Every 6 Months

1. Check the windshield wiper blades for cracks, warping or hardening.
2. Inspect and rotate tires.
3. Inspect brake pads and rotors for excess wear and surface condition.
4. Inspect steering links and tie rods for dents or excess wear.

Maintenance Schedule

Servicing your Brawley™ regularly at the recommended intervals will help protect and maintain the condition of your vehicle. If an issue is present with your vehicle before a scheduled interval comes due, contact your Vanderhall™ dealer to schedule a maintenance inspection.

Every 1,000 miles

- Change cabin air filter.
- Inspect and service suspension.
- Lubricate and re-tighten suspension and steering hardware.

Every 30,000 miles

- Change brake fluid.
- Change brake pads and rotors.
- Inspect and service braking system lines and reservoir.

Every 10,000 miles

- Inspect brake pads and rotors.
- Lubricate brake calipers.
- Inspect and lubricate hinges, handles and struts.

Every 50,000 miles

- Service powertrain oil and filters.
- Service coolant systems.

Additional Maintenance and Care

Your vehicle is an investment and caring for it properly may help to avoid future costly repairs. To maintain vehicle performance, additional maintenance services may be required. The following list is intended to explain the services and conditions to look for that may indicate services are required.

Battery

If mileage range or power decreases or time to charge increases or batteries will not charge, vehicle service may be needed. Keep the vehicle on a charger when not in use to prevent complete battery discharge. If charging, power, or range issues are present, contact your Vanderhall™ dealer.

SEE BATTERY → 76 

Brakes

Brakes stop the vehicle and are crucial to safe driving.

- Signs of brake wear may include chirping, grinding, or squealing noises, or difficulty stopping.

Fluids

Proper fluid levels and approved fluids protect the vehicle's systems and components.

SEE RECOMMENDED FLUIDS AND LUBRICANTS → 98 

Shocks

Shocks help aid in control for a smoother ride.

- Signs of wear may include steering wheel vibration, bounce/ sway while braking, longer stopping distance, or uneven tire wear.
- Inspect for signs of damage such as leaking.

Lamps

Properly working headlamps, tail lamps, and brake lamps are important to see and be seen on the travel path.

- Signs that the headlamps need attention include dimming, failure to light, cracking, or damage.
- The brake lamps need to be checked periodically to ensure that they light when braking.

Tires

Tires need to be properly inflated, rotated, and balanced. Maintaining the tires can save money and battery energy, and can reduce the risk of tire failure.

- Signs that the tires need to be replaced include three or more visible tread wear indicators; cord or fabric showing through the rubber; cracks or cuts in the tread or sidewall; or a bulge or split in the tire.

Wheel Alignment

Wheel alignment is critical for ensuring that the tires deliver optimal wear and performance.

- Signs that the alignment may need to be adjusted include pulling, improper vehicle handling, or unusual tire wear.

Vehicle Care

To help keep the vehicle looking like new the vehicle should be cleaned frequently. For information on how to clean and protect the vehicle's interior and exterior.

SEE INTERIOR CARE⇒84 AND EXTERIOR CARE⇒86 

Windshield

For safety, appearance, and the best viewing, keep the windshield clean and clear.

Signs of damage include scratches, cracks, and chips.

Adjusting the suspension

The suspension can be configured to alter the vehicle's performance on different surfaces.

The default configuration of the suspension is set up for best results on surfaces such as sand, dirt, gravel and hard packed areas.

Altering the suspension by disconnecting the sway bars from the control arms can enhance performance on very rocky and uneven surfaces.

The next page explains the steps to move the sway bar links.

If you have questions or need assistance configuring your vehicles suspension, contact your Vanderhall™ dealer.



WARNING

Your vehicles shocks have been designed and set up to help maintain stability and traction.

Any alteration to the shocks may negatively affect the driving behavior of your Brawley and may create unwanted and potentially hazardous driving conditions.

Do NOT attempt to alter your shocks spring tension by adjusting the shocks.



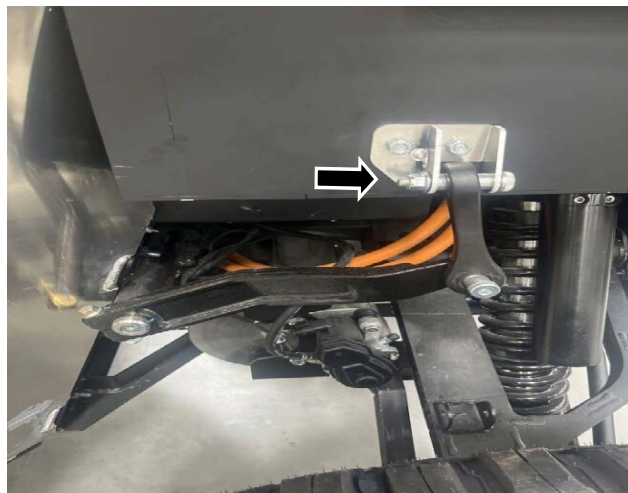
Default setup



Disconnecting the sway bars

1. Ensure the vehicle is parked with the parking brake engaged and on stable and level ground. Use wheel chocks to further secure the vehicle.
2. Unbolt the sway bar link from the upper control arm. Keep track of the spacers. Discard the nut and use a new nut when reinstalling.
3. Turn the link up so that it is pointing upward.
4. Repeat these first 3 steps on the other side of the vehicle.
5. Once both sides of the sway bar are disconnected from the control arms, insert the link into the bracket located on the tub of the vehicle.
6. Insert the spacers and bolt.
7. Tighten the new nut and torque to 25 lb-ft.
8. Repeat these steps on the remaining sway bar links on all 4 wheels to complete rocky terrain set up.

If you have questions or need assistance configuring your vehicles suspension or to purchase new parts, contact your Vanderhall™ dealer.



Rocky surface setup

Recommended Fluids and Lubricants

Fluids and lubricants identified below by name, part number, or specification can be obtained from your dealer.

Usage	Fluid / Lubricant
Powertrain Gearbox Fluid	Use only Castrol ON EV transmission fluid W5
Powertrain Coolant	50/50 mixture of clean, distilled water and use only DEX-COOL® Coolant
Hydraulic Brake System	DOT 4 Hydraulic Brake Fluid

Capacities and Specifications

The following approximate capacities are given in metric and English conversions.

SEE RECOMMENDED FLUIDS AND LUBRICANTS → 98 

Application	Capacities	
	Metric	English
Air Conditioning Refrigerant	For the air conditioning system refrigerant type and charge amount, see the refrigerant label affixed under the inner hood.	
Powertrain Cooling Systems	600 ml	0.63 qt
Powertrain Gearbox with Filter	2.0 L	2.1 qt

All capacities are approximate.

When adding, be sure to fill to the approximate level, as recommended in this manual.

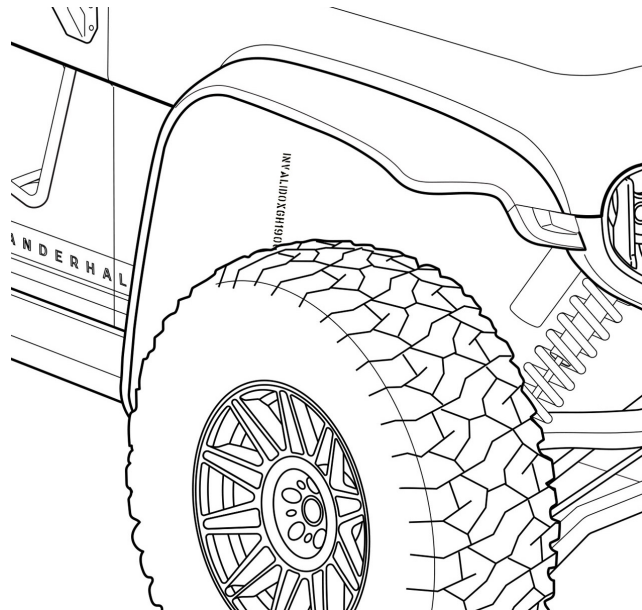
Recheck fluid level after filling.

Vehicle Identification Number

INVALID0XGH190000

This legal identifier is on the front right corner of the chassis, located behind the Wheel.

The VIN also appears on the Vehicle Identification Label affixed inside the vehicle near the Data Link Connector under the dash on the driver side of the vehicle.



Customer Information



PRE-DELIVERY INSPECTION

Upon purchasing your new Vanderhall Brawley, your authorized dealership is required to perform a comprehensive Pre-Delivery Inspection (PDI) to ensure your vehicle meets our stringent quality and safety standards. This vital inspection covers certain mechanical components, electrical systems, and aesthetic features, and includes a thorough pre-ride test to confirm optimal performance. As part of this process, your dealership should provide you with a completed Pre-Delivery Inspection Certificate.

This certificate serves as a formal record of your vehicle's condition at the time of delivery and confirms that all necessary checks have been performed. It also verifies that you have received and understand critical documents such as this Owner's Manual, your Warranty Information, and important Safety Guidelines such as those found in vehicle labels.

If you have not received a completed PDI Certificate or if you have any questions regarding the inspection, please contact your selling dealership immediately to obtain a copy and ensure all aspects of your vehicle's delivery have been properly addressed.

SCHEDULE A
VANDERHALL NA LIMITED WARRANTY

(Limited Warranty – Off-Highway Vehicles – United States of America)

Vanderhall North America, LLC (“Vanderhall NA”) provides limited warranty coverage on off-road Vanderhall NA products (“VNA Products”) sold for use by retail (non-commercial) customers, as described in this Limited Warranty. This warranty gives you specific legal rights; you also may have other rights, which vary from state to state.

This warranty is provided only to the original purchaser from an authorized Vanderhall NA dealer, but it can be transferred to subsequent owners during the warranty period through an authorized Vanderhall NA dealer. Any transfer of this warranty to a subsequent owner will not extend the warranty coverage period. No warranty coverage is provided to subsequent owners unless they follow Vanderhall NA’s transfer procedures and present a valid proof of purchase. This warranty does not extend or apply to anyone else.

PRODUCT WARRANTY, LIMITATIONS AND EXCLUSIONS

Vanderhall NA warrants, subject to the limitations and exclusions below, that the VNA Products will be free from defects in workmanship and materials for a period of six (6) months after the VNA Product was first delivered to the first retail (noncommercial) customer. This warranty coverage runs from the date the VNA Product was first delivered to the first retail (noncommercial) customer and applies only to warranted defects that first manifest themselves and are reported to Vanderhall NA within the limited warranty period.

UNDER THE LAWS OF CERTAIN STATES, THERE MAY BE NO IMPLIED WARRANTIES OR GUARANTEES FROM VANDERHALL NA APPLICABLE TO YOUR VNA PRODUCT, AND ALL IMPLIED OR STATUTORY CONDITIONS AND WARRANTIES (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) AND GUARANTIES ARE EXCLUDED AND DISCLAIMED TO THE FULLEST EXTENT ALLOWED BY LAW. If applicable, the duration of any implied warranty is limited to the six (6) month duration of this limited warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Certain items are excluded from warranty coverage by Vanderhall NA, and this limited warranty coverage does not apply to:

Normal and routine maintenance, or improper or inadequate maintenance (see applicable Vanderhall NA Owner's Manual).

Normal wear and tear.

VNA Products delivered without pre-delivery preparation and set up by an authorized Vanderhall NA dealer.

Damage caused by accidents, abuse, or by improper use and handling, for example, if you do not operate or maintain your vehicle as outlined in your owner's manual.

Damage or deterioration to VNA Product finishes or components due to exposure to the environment.

- Modifications, including the use of aftermarket or unapproved components and any damage they cause.
- Design defects.
- Unauthorized maintenance or repairs, including maintenance or repairs not performed by an authorized Vanderhall NA dealer.
- Any use for commercial (including rental, ridesharing and similar uses), racing or competition purposes.
- VNA Products which have not been warranty-registered with Vanderhall NA.
- There is no warranty coverage on VNA Products kept and used outside of the United States.

BATTERY PACK LIMITED WARRANTY

The lithium-ion battery pack (the “Battery Pack”) in your Vanderhall NA electric vehicles is a very technical component and is covered under this Limited Warranty. Any warranty replacement may not restore your vehicle to a condition that is “like new”.

Your vehicle’s Battery Pack is covered under this Battery Pack Limited Warranty for a period of three (3) years.

Damage resulting from abusing or destroying your vehicle or ignoring vehicle warnings or service notifications, an accident, or the opening or servicing of the Battery Pack by non-Vanderhall NA approved personnel, is not covered under this Battery Pack Limited Warranty. Damage to the Battery Pack resulting from the following activities is also not covered under this Limited Warranty: (1) intentionally trying to reduce or extend the life of the Battery Pack or its component parts, other than as set forth in your owner’s manual; (2) exposing the Battery Pack to direct flame; or (3) flooding the Battery Pack.

The Battery Pack, like all lithium-ion batteries, will experience power and energy loss over time; such loss is not covered under this Limited Warranty. See your operations manual for information on how to maximize the capacity and life of the Battery Pack. Any failure to follow these instructions on charging and battery maintenance shall void this Limited Warranty in relation to your Battery Pack. The software on your vehicle may be updated wirelessly, continually providing improvements and new features. Any change to your Battery Pack life caused by these updates are not covered by this Limited Warranty.

For any warranty claims specific to Battery Pack capacity, any replacement Battery Pack will be in a condition appropriate for the mileage and age of the vehicle. The vehicle’s estimated range is an imperfect measure of Battery Pack capacity.

REMEDIES UNDER THIS LIMITED WARRANTY

If a defect covered by this warranty occurs, Vanderhall NA (or one of its authorized dealers, as determined by Vanderhall NA) will repair and replace the defective component, in its sole discretion. This “repair or replacement” remedy is the exclusive remedy under this warranty.

Vanderhall has limited authorized dealers and repair centers, particularly for the Brawley model. The nearest authorized location is likely the dealer from which the vehicle was purchased. Vanderhall is not responsible for transporting your vehicle to an authorized dealer.

Vanderhall NA has no responsibility or liability for any consequential or incidental damages, such as the cost of aftermarket parts or their replacement or repair, loss of use, storage charges, interest or finance charges, insurance or depreciation, transportation or lodging charges, or charges for delivery, towing or hauling out, etc. AND ALL INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED AND DISCLAIMED FROM THIS LIMITED WARRANTY. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

RESPONSIBILITY OF PURCHASER

- No warranty coverage is provided by Vanderhall NA unless the customer and dealer complete and return all Warranty Registration Forms to Vanderhall NA within seven (7) days after delivery of the vehicle to the original purchaser.
- The customer must notify the Vanderhall NA dealer from which the vehicle was purchased of any claimed defect within fifteen (15) days after first detecting the claimed defect. Warranty work in excess of \$500 requires Vanderhall NA's prior written approval.
- If the dealer fails to satisfactorily repair the claimed defect within fifteen (15) days, written notice to the address below or online at <https://dealer.vanderhallusa.com/contact> must then be promptly given directly to Vanderhall NA. Vanderhall NA is not responsible for unreported warranted defects.
- The vehicle, including any claimed defective part, must be returned to the Vanderhall NA dealer from which the vehicle was purchased (or to another dealer or facility if directed by Vanderhall NA) within the warranty period for inspection and warranty service. THE EXPENSE OF RETURNING AND TRANSPORTING THE VEHICLE OR ANY PART FOR WARRANTY SERVICE, AND THE EXPENSE OF RETURNING AND TRANSPORTING IT BACK TO THE OWNER AFTER REPAIR OR REPLACEMENT, IS THE RESPONSIBILITY OF THE OWNER, AND WILL NOT BE REIMBURSED BY VANDERHALL NA.
- If the dealer from whom the vehicle was purchased is no longer an authorized Vanderhall NA dealer, contact Vanderhall NA for instructions on how to obtain warranty service.

DISPUTES

Resolving concerns where reasonably possible to do so is important to Vanderhall NA. Except for injunctive relief intended to prevent irreparable harm, a party alleging a Dispute (defined below), shall provide the non-breaching party with a detailed description of the alleged breach and a reasonable opportunity to cure, not less than thirty (30) days, which shall be a condition precedent to initiating a Dispute in arbitration. If the parties cannot agree on a resolution, then any Dispute shall be resolved by binding arbitration as described herein.

Any dispute, claim, suit, demand, case or controversy arising out of or relating to this agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this agreement to arbitrate, or any other aspect of the parties' relationship to one another ("Dispute"), shall be determined exclusively and finally by arbitration. Arbitration is a process whereby a dispute is submitted to an arbitrator, for a final and binding determination, known as an award. The arbitrator is an individual, similar to a judge, who reviews and weighs evidence provided by both parties, and renders an award enforceable in court.

By agreeing to mandatory and binding arbitration, the parties are agreeing to waive their right to go to court to enforce or defend their rights, to waive their right to a jury trial and to litigate claims on a class-wide, consolidated, representative or class-action basis. The parties' rights will be determined by a neutral arbitrator. It is intended that the parties' agreement to arbitrate be broad and comprehensive and that it cover any and all aspects of the parties' relationships with one another. Notwithstanding anything in this agreement to the contrary, a party may seek preliminary injunctive relief, including temporary restraining orders or preliminary injunctions, in a Utah court solely to prevent irreparable harm arising out of or relating to this agreement, as permitted by Utah Rule of Civil Procedure 65A, pending the resolution of such dispute through arbitration ("injunctive relief"). The arbitration shall be administered by National Arbitration and Mediation ("NAM"), Judicial Arbitration and Mediation Service ("JAMS"), the American Arbitration Association ("AAA") or by another arbitrator by agreement of the parties. If the parties are unable to agree on an arbitrator, the arbitration shall be conducted by NAM, JAMS or AAA in that order of preference. The parties can appear at the arbitration in person, via telephone or video conference for convenience. The arbitration shall be held before a single arbitrator and shall be conducted pursuant to this agreement, the Federal Arbitration Act, 9 U.S.C. § 1 et. Seq. ("FAA"), and NAM standard rules and procedures (with an accelerated hearing), JAMS Streamlined Rules and Procedures, or similar Fast Track Procedures of the AAA. The arbitrator shall resolve the Dispute as quickly as possible, within one hundred eighty (180) days from the commencement of the arbitration whenever reasonably possible. The arbitration, or any portion of it, will not be consolidated with any other arbitration and will not be conducted on a class-wide or class-action basis. The arbitrator shall be entitled to award any damages provided for under applicable law and the arbitrator shall apply and follow governing substantive law, and the express terms of this agreement, in making an award, despite any arbitration rules to the contrary. The arbitrator shall issue a written decision on the merits.

Except for injunctive relief, the parties unequivocally agree that any Dispute which is not subject to arbitration and must be heard in court shall be stayed until the conclusion of the arbitrable claims. Should either party bring a Dispute in a forum other than arbitration, except as expressly stated otherwise in this agreement, the court or the arbitrator shall have the authority to award reasonable Costs (defined in Section 20), incurred by the other party in successfully staying or dismissing, in whole or in part, such other proceeding or in otherwise enforcing compliance with this arbitration provision.

The arbitration award shall be final and binding on the parties, and if the arbitrator's award is less than or equal to \$25,000 there shall be no right of appeal. If the arbitrator's award exceeds \$25,000, either party may appeal the award to a three-arbitrator panel under the appellate rules and procedures of the selected arbitration provider (NAM, JAMS, or AAA, as applicable). The appealing party must file a notice of appeal with the arbitration provider within thirty (30) days of the issuance of the underlying award, or the appeal shall be time-barred. The appellate panel shall review the award de novo but may overturn or modify it only on the grounds for vacating an award under Utah Code Ann. § 78B-11-124, including, without limitation, corruption, fraud, or undue means; evident partiality, corruption, or misconduct by the arbitrator; refusal to postpone the hearing or consider material evidence; exceeding authority (including failure to apply Utah substantive law as required by this agreement). The appellate panel shall resolve the appeal as quickly as possible, within ninety (90) days from the filing of the notice of appeal whenever reasonably possible and shall issue a written decision. The party filing the appeal shall bear all costs, fees, and expenses associated with the appeal, unless otherwise ordered by the appellate panel. Judgment on the arbitrator's award may be entered in any state or federal court of competent jurisdiction. In the event of a conflict between the applicable arbitration rules and this agreement, then this agreement shall govern. Further information about arbitration may be obtained from NAM online at <https://namadr.com/>, JAMS online at www.jamsadr.com, or <https://www.adr.org/>.

Waiver of Jury Trial: EACH PARTY HEREBY WAIVES ITS RIGHTS TO A JURY TRIAL OF ANY CLAIM OR CAUSE OF ACTION BASED UPON OR ARISING OUT OF THIS AGREEMENT ON A CLASS OR CONSOLIDATED BASIS OR IN A REPRESENTATIVE CAPACITY, THE OTHER TRANSACTION AGREEMENTS, THE SECURITIES OR THE SUBJECT MATTER HEREOF OR THEREOF. THE SCOPE OF THIS WAIVER IS INTENDED TO BE ALL-ENCOMPASSING OF ANY AND ALL DISPUTES (SEE DEFINITION IN SECTION 6.16 ABOVE) THAT MAY BE FILED IN ANY COURT AND THAT RELATE TO THE SUBJECT MATTER OF THIS TRANSACTION, INCLUDING, WITHOUT LIMITATION, CONTRACT CLAIMS, TORT CLAIMS (INCLUDING NEGLIGENCE), BREACH OF DUTY CLAIMS, AND ALL OTHER COMMON LAW AND STATUTORY CLAIMS. THIS SECTION HAS BEEN FULLY DISCUSSED BY EACH OF THE PARTIES HERETO AND THESE PROVISIONS WILL NOT BE SUBJECT TO ANY EXCEPTIONS. EACH PARTY HERETO HEREBY FURTHER WARRANTS AND REPRESENTS THAT SUCH PARTY HAS REVIEWED THIS WAIVER WITH ITS LEGAL COUNSEL, AND THAT SUCH PARTY KNOWINGLY AND VOLUNTARILY WAIVES ITS JURY TRIAL RIGHTS FOLLOWING CONSULTATION WITH LEGAL COUNSEL.

I acknowledge, understand and agree that regardless of any statute or law to the contrary, any Dispute must be filed within one (1) year from the date that the breach and/or injury was discovered, or that it reasonably should have been discovered, or the Dispute shall be precluded and forever barred by this provision.

OTHER INFORMATION

This Limited Warranty is the sole and exclusive statement of the warranty coverage provided by Vanderhall NA. The terms of this written warranty cannot be changed or modified, except by a written agreement signed by an officer of Vanderhall NA. Vanderhall NA's dealers are independent business and are not the agents of Vanderhall NA for any purpose. Vanderhall NA reserves the right to improve its products through changes in design or materials without being obligated to the owners of the vehicles of similar or the same model of prior manufacture.

We may be contacted as follows:

Vanderhall North America, LLC
3500 Mountain Vista Pkwy, Provo, Utah 84606
Online at <https://dealer.vanderhallusa.com/contact>

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