

ATLAS

Owner's Manual

Applicable to Golf Cart and LSV Models

Owner's Manual

- ☐ 2N
- ☐ 4N
- ☐ 4L
- ☐ 6N
- ☐ 6L
- ☐ 2N LSV
- ☐ 4N LSV
- ☐ 4L LSV
- ☐ 6N LSV
- ☐ 6L LSV
- ☐ 4F
- ☐ 4F LSV

Atlas Carts
111 County Road 214
Liberty Hill, TX 78642

For the latest and most
up-to-date version
of this owners manual
scan the QR code below.

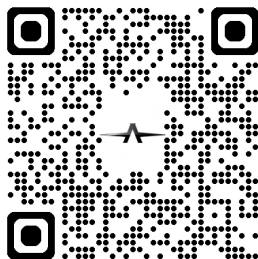


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Ownership Information

You are now the proud owner of a Atlas personal vehicle. Please take time to read and understand all the information provided in this owner's manual. Knowing how to operate and maintain your new vehicle is the best way to protect your investment. Your new Atlas has been designed to provide you with many miles of reliable transportation.

Understanding all the operating instructions and safety precautions in this manual will prevent the risk of personal injury or property damage.

Owners are responsible to register their vehicles immediately after purchase. Registration of the vehicle will make sure Atlas is able to communicate any necessary information directly to owners.

To register online, visit; <https://www.atlascarts.com/dealers/warranty>

You can also mail your name, address, and vehicle serial number to:

Atlas Warranty Department
111 County Road
Liberty Hill TX 78642

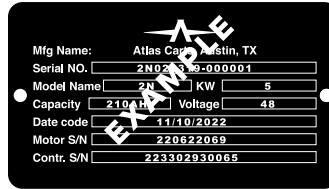
Dealership Information

Contact Atlas customer support anytime for quick answers to your questions and concerns. Your dealer or distributor can provide additional information about the following:

- Accessories
- Publications
- Replacement Parts
- Technical Support
- Warranty Information

To locate a dealership near you visit: www.atlascarts.com

Vehicle Model and Serial Number



Model Number	Battery Type	Production Year/Week	Production Position Number
2 N	0 2	2 3 1 9	- 0 0 0 0 0 1

Low Speed Vehicles (LSV) Vehicle Identification Number (VIN) and Certification Label

For owners of Low Speed Vehicles

The Vehicle Identification Number (VIN) is located on the dash panel.

The Vehicle Certification Label is located on the left side of the dash panel.

Design/Engineering Changes by Atlas

Atlas may make design changes to any Atlas vehicle without notifying owner or making the same changes to a previously purchased Atlas vehicle.

Atlas is not liable for any errors or omissions in this manual or any incidental or consequential damages that result from the use of any material presented in this manual.

Vehicle Modifications by Others



ANY VEHICLE MODIFICATIONS OR CHANGES THAT RESULT IN IMMINENTLY AFFECTING OCCUPANT SAFETY, WILL RESULT IN DEATH OR SERIOUS INJURY.



MODIFICATIONS TO THE VEHICLE MUST NOT COMPROMISE COMPLIANCE WITH STATE OR FEDERAL REGULATIONS.

Any modifications made to a Atlas vehicle or installation of accessories that are not approved by Atlas may adversely affect the safe operation and performance of the vehicle. Modifications may include, but are not limited to suspension, seating changes, increased speed and cargo capacity. Atlas does not recommend any modification of this vehicle unless the modification is specifically designed and offered by Atlas.

However, if the vehicle is modified, the modifier shall:

1. for the modification to be designed, tested and implemented by an engineer with expertise in vehicles and their safety;
2. maintain a permanent record of the design, testing and implementation of the modification;
3. make appropriate changes to the capacity, plate(s), decals, and operation and maintenance manuals; and
4. apply a permanent and readily visible label on the vehicle stating the vehicle has been modified with the date of the modification and the name of the entity that made the modification.

The entity making any modification becomes the original equipment manufacturer of the modified vehicle, assumes liability for the vehicle, and has the responsibilities listed above.

Refer to the warranty for specific details regarding vehicle modifications.

Atlas Vehicle Warranty

For Warranty information visit atlasarts.com

General Information

Only operate this vehicle as described in this manual. Speak with your local dealer or distributor for changes, additions, or modifications that are necessary to comply with local laws and regulations pertaining to the use of the vehicle.

Atlas has designed this vehicle to transport people along improved or semi-improved byways. Typical applications include: commercial, industrial, agriculture and personal use as permitted by local laws and regulations.

This vehicle can be used in a variety of usages outside of the manufacturer's intent. Atlas cannot anticipate and warn for every possible usage condition. It is the responsibility of the operator to exercise good sense and judgement and always operate the vehicle in an appropriate manner for the way in which the vehicle is being used.

Safety Signal Words

Signal words (DANGER, WARNING, CAUTION, and NOTICE) and safety messages are used in this manual to alert the owner to important safety messages.

Safety decals are also placed on the vehicle where applicable to notify the owner/operator regarding safe operation and maintenance of the vehicle. Read, understand, and obey all instructions, safety precautions, and safety decals before vehicle operating the vehicle.

NEVER remove any safety decals. Missing, damaged, or unreadable safety decals should be replaced immediately to prevent possible property damage, personal injury, or death. Purchase replacement safety decals from your dealer or distributor.

Understand and follow all laws and regulations for vehicle operation in your area.

Speak with your dealer or distributor if you have questions about any material contained in this manual or the vehicle.

Explanation of Safety Signal Words



DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



NOTICE: identifies a potentially hazardous situation which could result in property damage.

Rental and Fleet Usage Safety Guidelines

Atlas recommends that vehicles used as rentals or as part of a fleet follow the following guidelines for safe service.

- Vehicle operation areas must be approved and all possible safety hazards identified.
- All operators must be qualified and approved to operate the vehicle.
- Provide instruction to all on safe vehicle operation.
- Maintain all vehicles in safe operational condition.
- Be sure that all safety decals are present on the vehicle.

Vehicle Safety Guidelines



It is the responsibility of the vehicle owner to read and fully understand the capabilities and limitations of the vehicle. The vehicle owner is liable for the safe use of this vehicle to prevent dangerous situations for the operator, any passengers and other people.

Serious personal injury or death can occur if you fail to comply with the instructions and procedures shown in this owner's manual.

The vehicle or battery charger can cause flammable materials to ignite. Do not operate the vehicle or battery charger near flammable materials and fumes. The vehicle is not to be used in areas that contain explosive material.

Do not operate the vehicle in storms or when lightning is present in the area. Get out of the vehicle immediately and find a safe shelter area.

Children must always be supervised when in or around the vehicle. Unintended vehicle operation can cause death or serious personal injury.

Do not operate the vehicle when under the influence of alcohol, drugs, medications, or while distracted.



Electrical shorts can cause a fire or electrical shock resulting in death or serious personal injury.

To prevent accidental electrical shorts or shocks while making any repairs, always use insulated tools. Do not make contact between positive voltage and the ground circuit.

Do not loiter in front of or behind the vehicle to prevent being hit by another vehicle.

Only two persons may occupy each bench seat at any time. Do not allow people to ride on any part of the vehicle that is not equipped with a seat. Never let a passenger hold a child in his or her lap when the vehicle is moving.

Atlas recommends that only trained technicians be allowed to service or repair the vehicle. Technicians should have the knowledge and experience in electrical and mechanical repair and are obliged to follow appropriate instructions when performing maintenance, service, or installing accessories.

Vehicle Safety and Compliance Decals

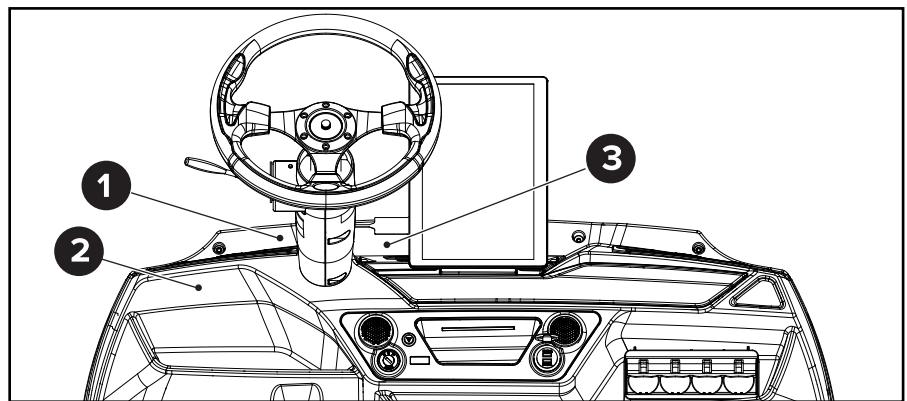
Take note of the various Safety Decals that are located in and around the vehicle. Be sure to follow all the instructions on the safety decals to prevent the risk of accidental death, serious personal injury, or property damage.

When cleaning the vehicle, do not use solvents, gasoline, or other chemicals to clean the decals. Do not pressure wash decals. Instead, use a soft moist cloth to gently remove any accumulated dirt that may obscure the information printed on the decals.



WARNING

Make sure all of the safety and operation decals are in the correct locations as placed by the manufacturer. Do not remove any of the safety decals. Always replace any safety and operation decals that are missing or damaged.



1



2

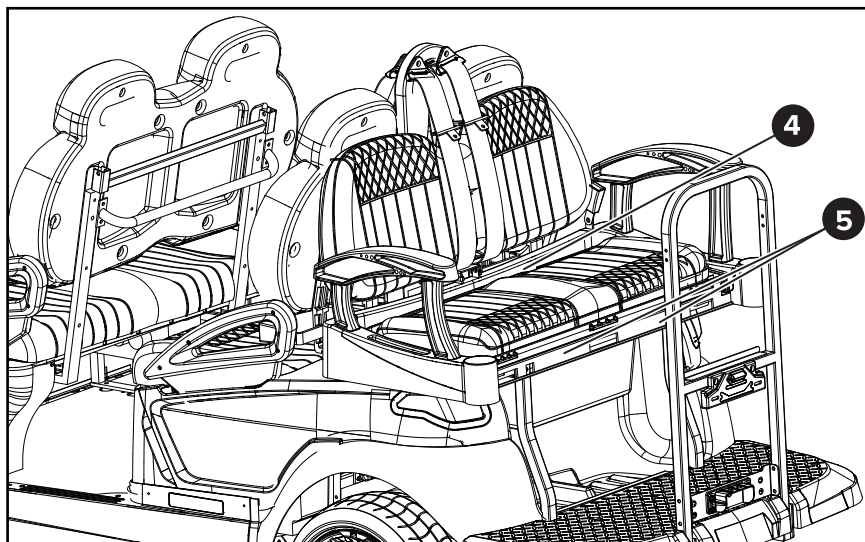


3



For vehicles equipped with rear facing seat .

Note: 2N models do not have decals #3 and #4.



4



WARNING!

DO NOT RIDE IN CARGO BED

- Cargo bed is NOT intended as passenger seating, do not ride in cargo bed
- Severe injury or death may occur to passengers riding in cargo bed

CARGO BED MAX CAPACITY: 150lb/68kg



WARNING!

SERIOUS INJURY OR DEATH MAY OCCUR WHEN EJECTED FROM OR FALLING OUT OF VEHICLE.

- Maximum occupants per bench seat is two(2)
- Entire body should be kept within moving vehicle
- Occupants should hold on to grab bars securely while vehicle is in motion

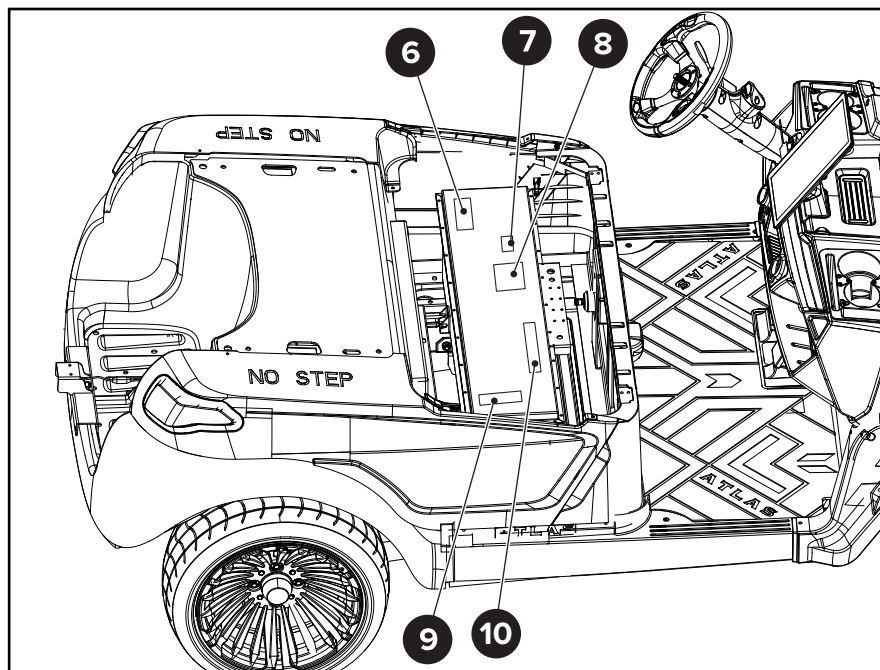
5



WARNING!

SERIOUS INJURY OR DEATH MAY OCCUR WHEN EJECTED FROM OR FALLING OUT OF VEHICLE.

- Occupants should remain fully seated in vehicle while it is in motion
- Children should not be unattended with this vehicle at anytime. Children who may require a child safety seat should not ride in this vehicle



6



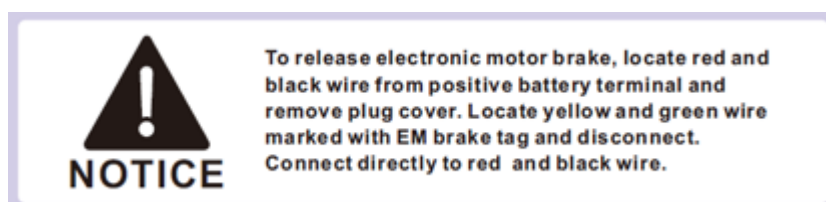
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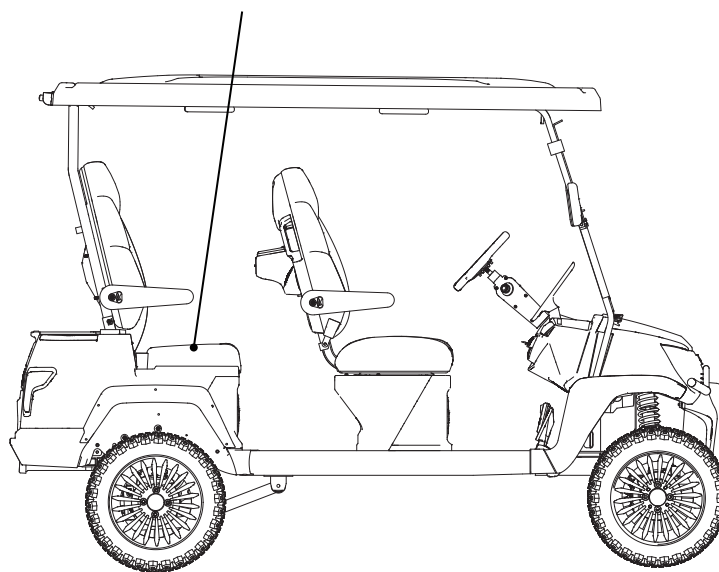
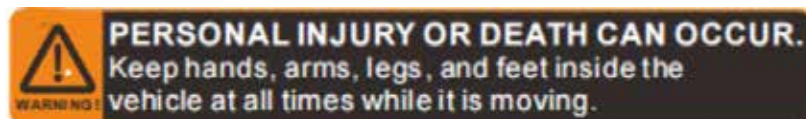
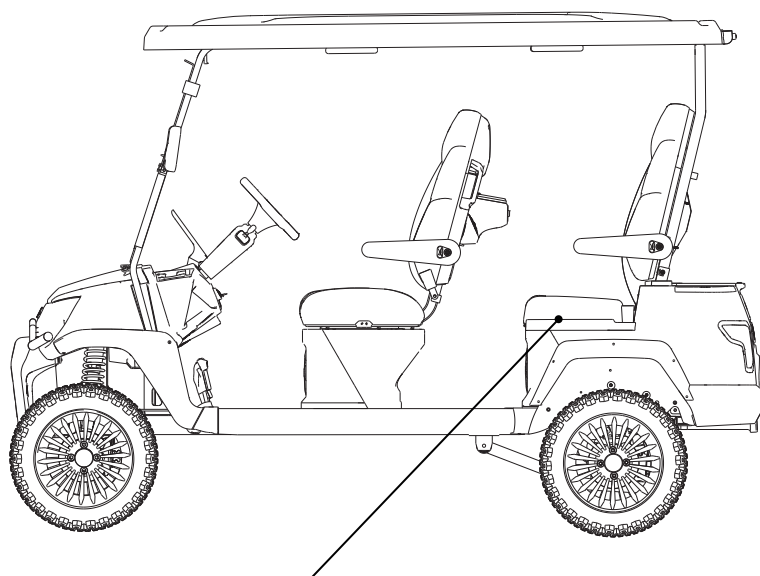


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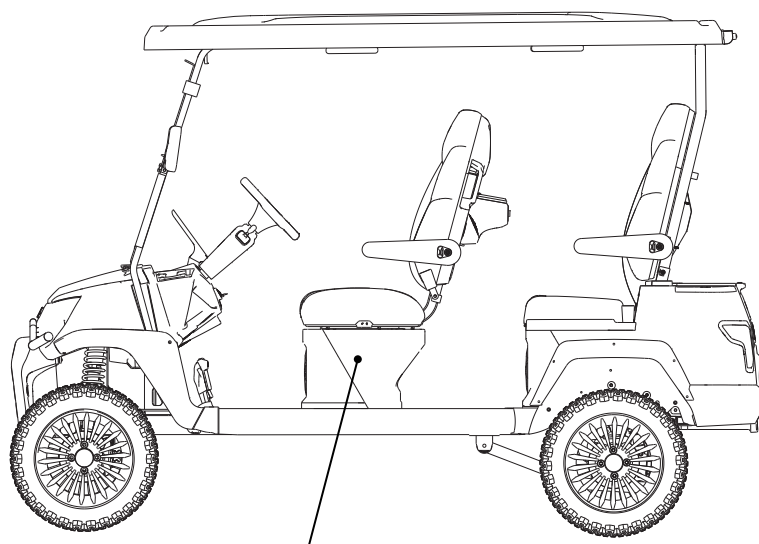
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Note: The decals shown below are only used on the 4F and 4F LSV models.

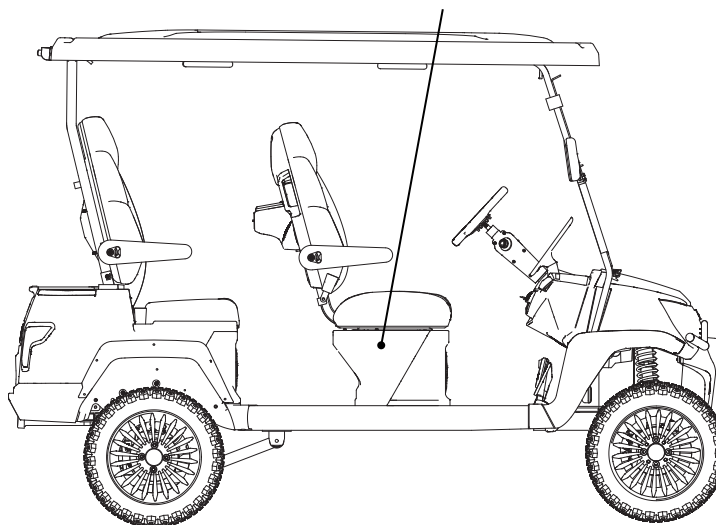


WARNING: All occupants must keep their hands, arms, legs, and feet inside the vehicle at all times while it is in operation. Extending any body part beyond the exterior profile of the vehicle creates a serious risk of contact with moving tires, vehicle operational parts, passing objects, structures, other vehicles, vegetation, or the ground surface, which can result in fractures, lacerations, amputation, or death. The operator must ensure that all passengers are aware of this requirement before placing the vehicle in motion. Do not reach outside the vehicle to open gates, move objects, or perform any other task while the vehicle is moving. If any such action is necessary, bring the vehicle to a complete stop and engage the parking brake before extending any body part beyond the vehicle's exterior.

Note: The decals shown below are only used on the 4F and 4F LSV models.

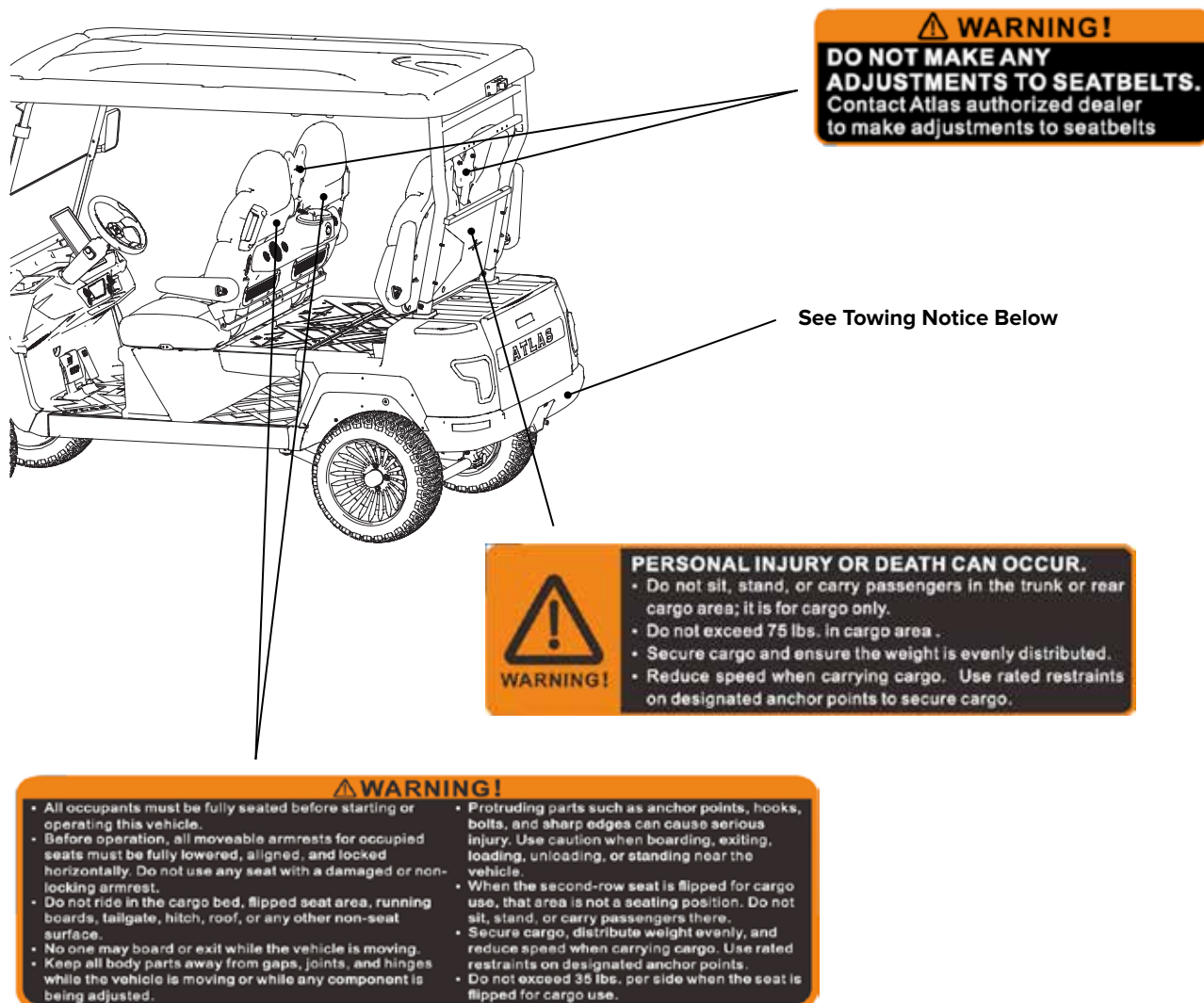


⚠ WARNING!
CRUSH AREA. CAN CAUSE SEVERE INJURY.
 Moving parts create pinch points that can crush or sever fingers, toes, hands, or feet. Keep hands, feet, clothing, and loose items away from hinges, seat hardware, gaps, openings, and all moving parts.



WARNING: This vehicle contains moving parts that create pinch points capable of causing serious injury, including severed fingers/toes and crushed hands/feet. Pinch points exist at and around the steering mechanism, seat-adjustment hardware, folding components, hinges, suspension elements, and any articulating or rotating parts. Keep hands, feet, fingers, clothing, and loose items clear of all moving parts at all times. Never place any body part in or near any gap, joint, or hinge while the vehicle is in motion or while any component is being adjusted. Always ensure the vehicle is fully stopped, the parking brake is engaged, and all moving components are secured and free of any obstruction before attempting any maintenance, adjustment, or inspection.

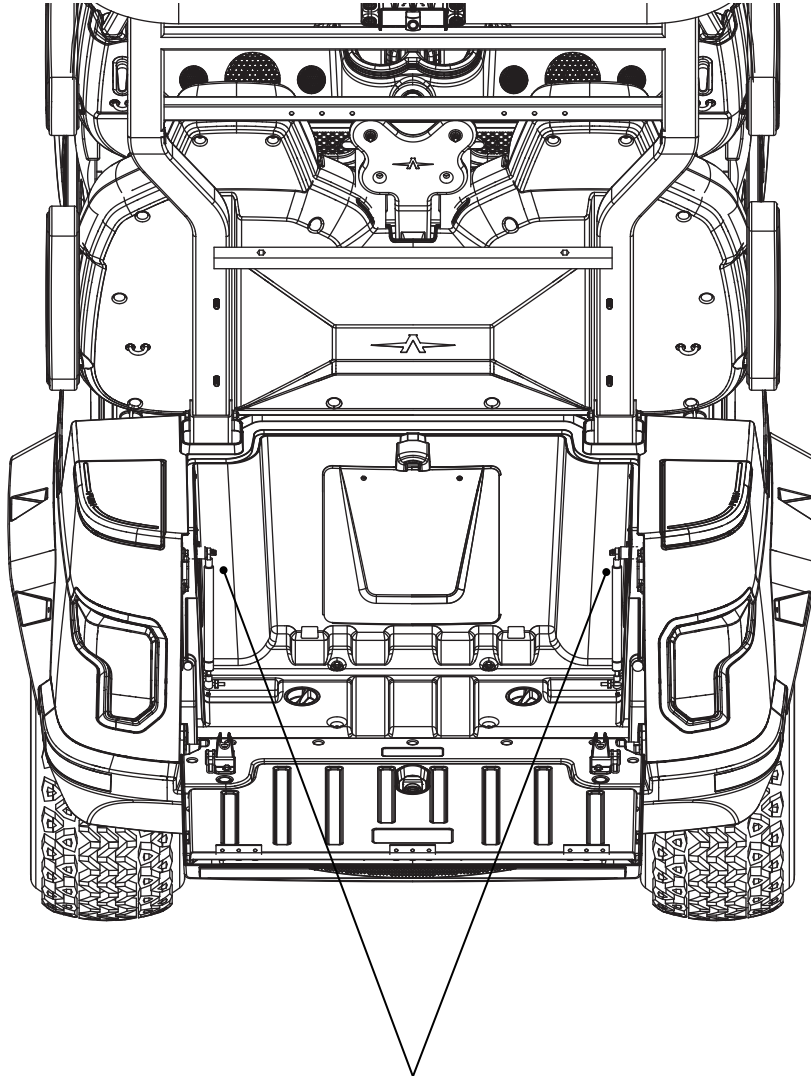
Note: The decals shown below are only used on the 4F and 4F LSV models.



Towing Notice:

- PTVs or LSVs are not designed for heavy towing. Using the hitch outside the manufacturer's specifications can lead to loss of control, brake failure, or mechanical damage, causing serious injury. If you have any questions about the safe use of the trailer hitch on your vehicle, contact the vehicle manufacturer before towing.
- **Max Trailer Weight: 1,500 lbs. Max Tongue Weight: 150 lbs.** Do not exceed vehicle payload
- Inspect the hitch before use, and avoid sudden turns, braking, steep grades, and unstable terrain while towing.
- Use the hitch only as specified where towing is legally permitted with a PTV or LSV.

WARNING: Check to see if locking pins in the cargo area are secure and properly aligned.



WARNING: Before operating this vehicle, the operator must verify that all locking pins in the trunk cargo area that secure the tailgate are fully and properly engaged. Failure to ensure that the locking pins are correctly seated may result in the tailgate opening unexpectedly during vehicle operation, which could cause cargo to shift or fall from the vehicle, potentially leading to serious injury, death, or property damage. Inspect each locking pin in the trunk cargo area to confirm that it is fully inserted into its corresponding receiver and that the pin is locked in the secured position. Each pin should be visually and physically checked by attempting to pull or wiggle it to ensure it does not release under normal force. If any locking pin appears damaged, bent, corroded, or otherwise compromised, do not operate the vehicle until the pin has been repaired or replaced with an approved replacement part. Do not operate the vehicle if any locking pin is missing, partially engaged, or fails to lock into position. Operating the vehicle with an unsecured tailgate creates a significant safety hazard to the operator, passengers, pedestrians, and nearby vehicles or structures. If the tailgate cannot be properly secured, take the vehicle out of service immediately and contact an authorized service technician for inspection and repair.

Vehicle Safety Features

Warning Buzzer

The vehicle comes equipped with a multi-purpose warning buzzer. The warning buzzer makes an audible tone when:

- ° The Forward / Neutral / Reverse control (FNR) is set to **R**.

Pedestrian Alert System

For low speed vehicles, the vehicle comes with a Pedestrian Alert System (PAS). The PAS alerts pedestrians of the vehicle's presence. The PAS makes an audible tone while driving below 20 mph (32 km/h). The PAS operates when the key switch is set to ON and the Forward control (FNR) is set to F.

Regenerative Braking

Regenerative braking helps maintain the downhill speed of the vehicle in relation to the accelerator pedal position.

Regenerative braking performance decreases when the battery is fully charged.

Regenerative braking cannot maintain the vehicle speed on an excessive grade (more than 20%). Use the brake pedal to control the vehicle speed.

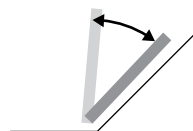


When the battery is fully charged, a fault code will appear on the display alerting the driver that regenerative braking will be reduced. Use the brake pedal to control the vehicle speed.

Accelerator Pedal Position

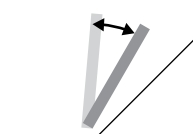
Vehicle Speed

Fully Pushed



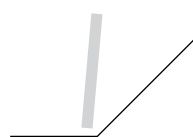
Regenerative braking maintains the speed of the vehicle at the programmed top speed.

Partially Pushed



Regenerative braking maintains the speed of the vehicle at a percentage of the programmed top speed in relation to the pedal position.

Fully Released



Regenerative braking will slowly bring the vehicle to a stop.

Note: Regenerative braking functions are controlled by controller settings. Contact dealer for more information.

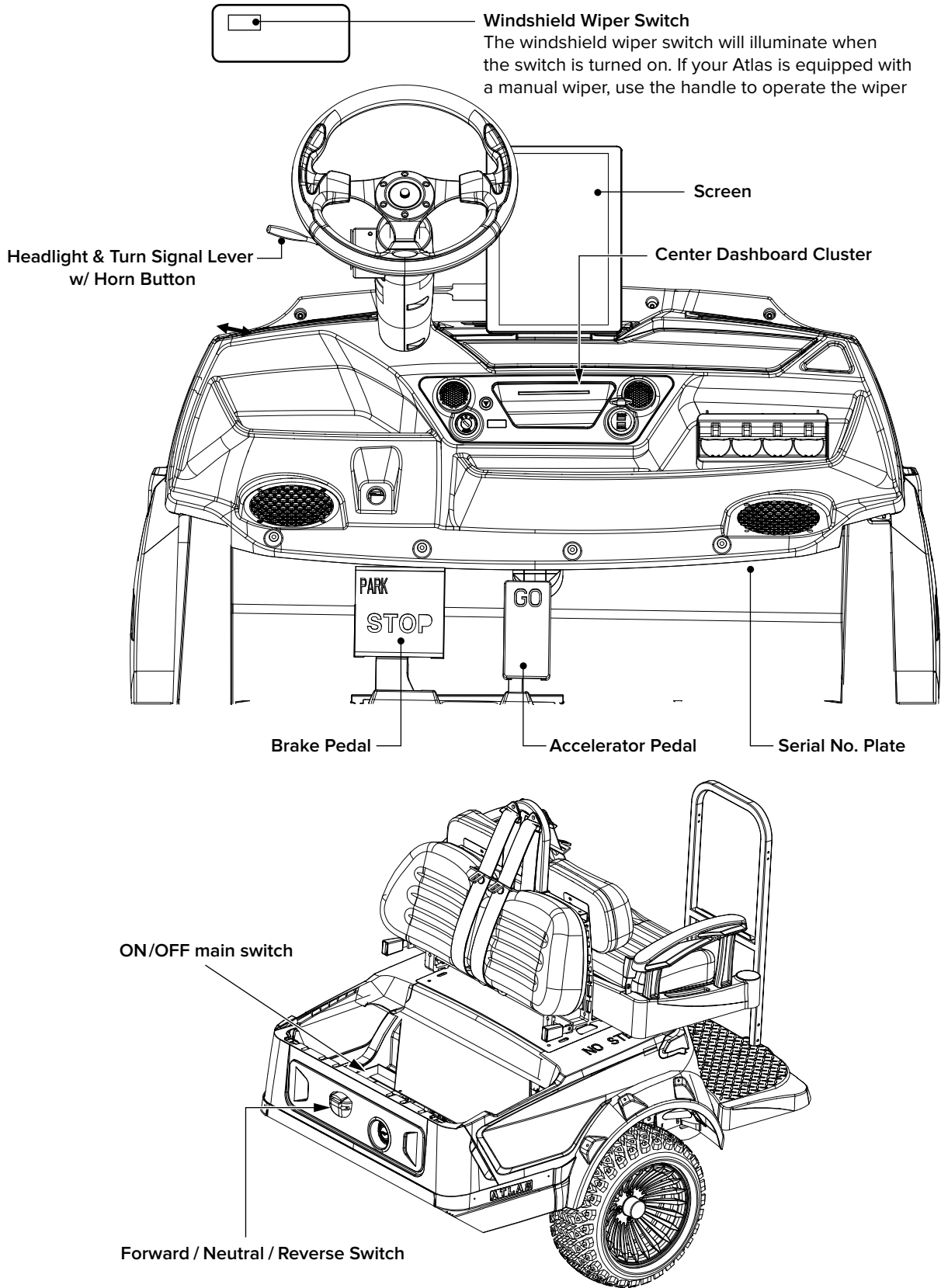
Battery Safety and Recycling

Damage including leaks and explosion can occur if a battery is flooded or submerged. The battery must be replaced.

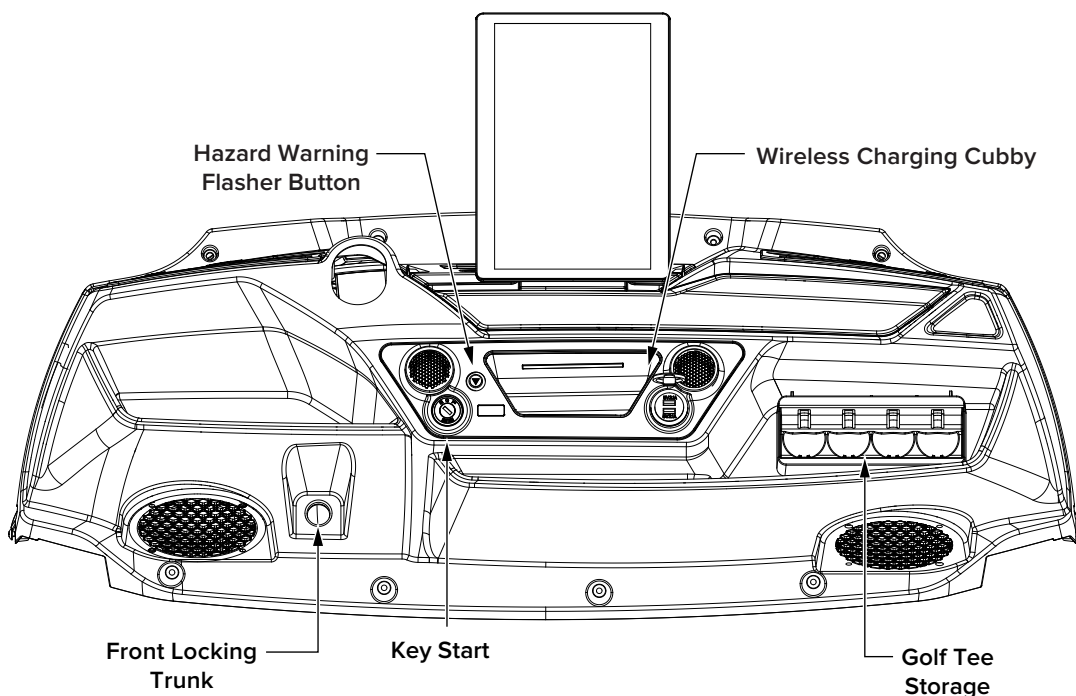
The battery is not serviceable. **NEVER** attempt to open the battery. Attempting to open can result in electrical shock, explosion, or fire.

When a battery is no longer able to hold a charge, recycle the battery. It is your responsibility to recycle Lithium-Ion batteries correctly. **NEVER** discard lithium-ion batteries in your regular municipal trash collection. Contact your dealer or check with your local recycling center.

Vehicle Controls and Features Overview



Dash Displays and Indicators



Hazard Warning Flasher Button

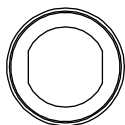


Push this button to turn on the hazard warning lights (four-way flashers). This causes all four outside turn signals and both indicators in the instrument panel to flash. Use the hazard warning lights if you need to park in a dangerous area near heavy traffic or if your vehicle is disabled.

Wireless Charging Cubby

Mobile Phone Wireless Charging

USB Interface



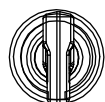
With the key switch in the ON position, the 12V, 2amp USB port supplies power to electronic devices via a USB cable.

Front Locking Trunk



Can be locked/unlocked with the vehicle ignition key.

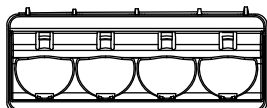
Key Start Switch



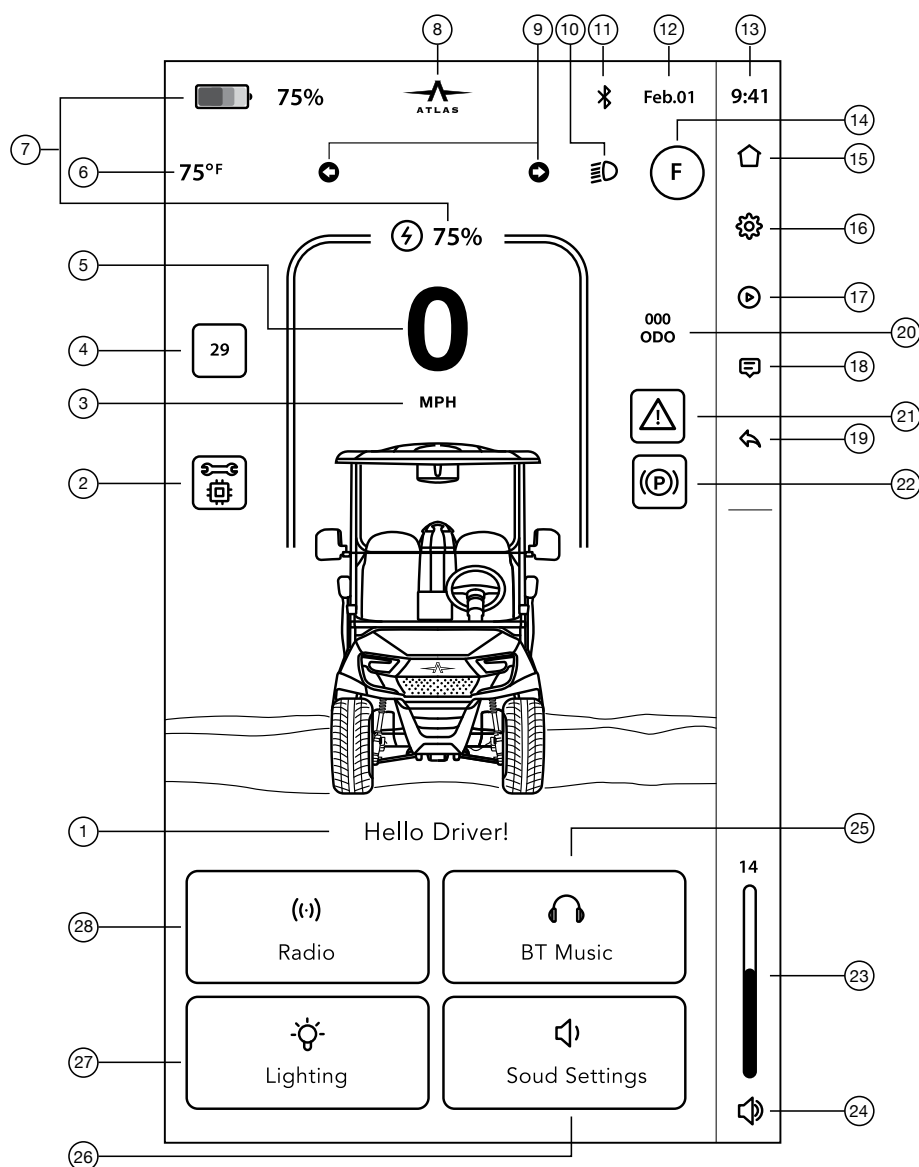
Key start 2-position switch.

- OFF - vehicle is disabled.
- ON - vehicle power on

Golf Ball Holder



Hold four golf balls and can be removed if desired.

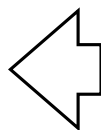
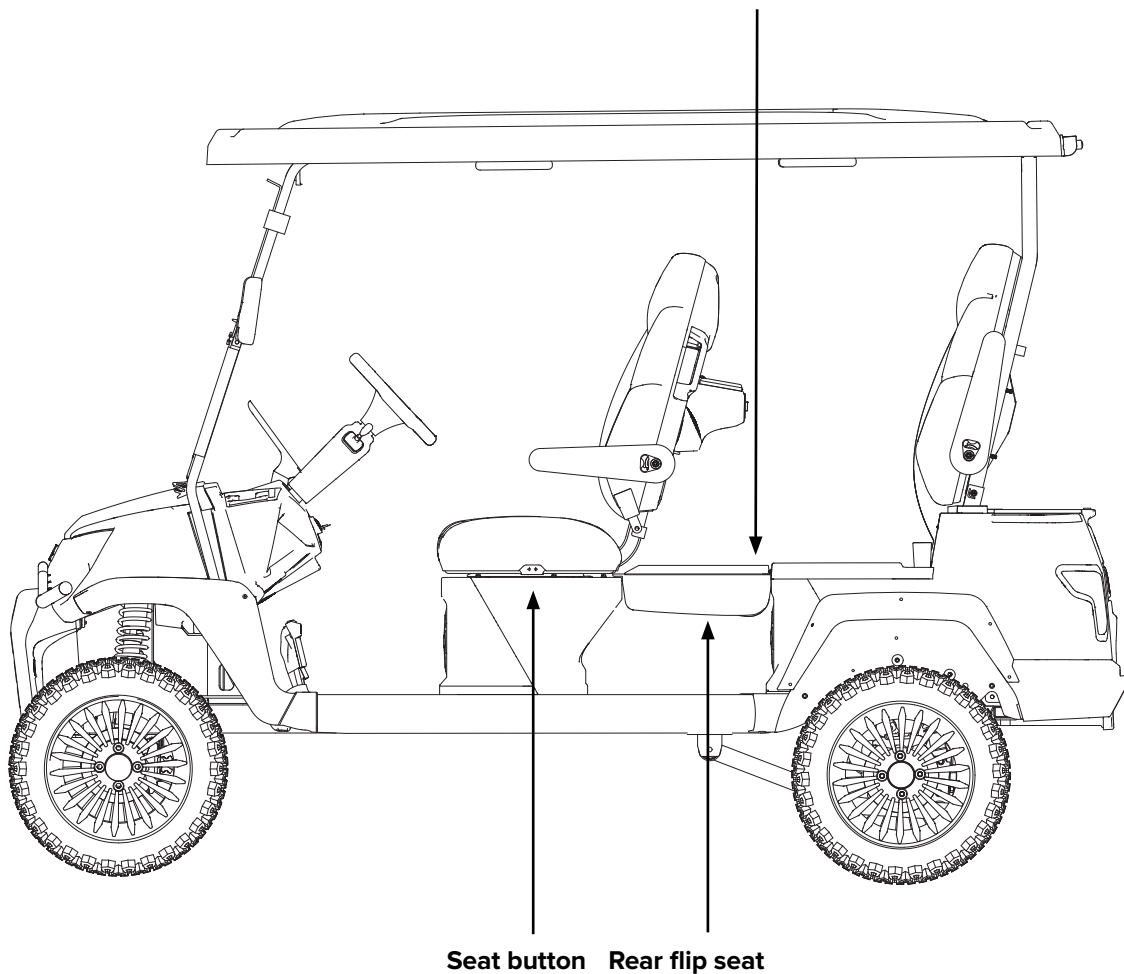


- | | | | |
|----------------------------------|---|-------------------------------------|--|
| 1. Cart/Bluetooth Name | Displays the name of your cart and its Bluetooth connection name. | 14. Forward/Reverse/Neutral | Displays the current driving mode. |
| 2. Electrical Fault | Displays when an electrical system error is detected. | 15. Home | Tap to return to the Atlas home screen from any menu. |
| 3. MPH/KPH | Tap to switch between miles per hour (MPH) and kilometers per hour (KM/H). | 16. Settings | Tap to open your cart's settings menu. |
| 4. Fault Code | Displays the current error code when a fault is detected. | 17. Phone Tethering | Tap to open the Phone Tethering menu. |
| 5. Real-Time Speed | Displays your current driving speed. | 18. Fault Code Notifications | Tap to open your cart's fault code notification screen. |
| 7. State of Charge | Displays the current battery level. | 19. Back Button | Tap to return to the previous menu. |
| 8. Atlas Logo/Home Button | Tap to return to the Atlas home screen. | 20. Odometer | Displays your cart's current mileage. |
| 9. Turn Signal Indicators | Displays when the turn signals or hazard lights are active. | 21. Hazard Light Indicator | Indicates when the hazard lights are on. |
| 10. High/Low Beam | Displays when the lights are on. When highlighted in blue, it indicates the high beams are active. When the lights are off, the indicator disappears. | 22. Parking Brake Indicator | Indicates when the cart is stopped and the automatic brake is engaged. |
| 11. Bluetooth Indicator | Displays when Bluetooth is active. | 23. Volume | Tap and to mute and unmute your connected media. |
| 12. Date | Displays the date. | 24. Mute | Tap to open your Bluetooth settings. |
| 13. Time | Displays the time. | 25. Bluetooth Music | Tap to open your Bluetooth settings. |
| | | 26. Sound Settings | Tap to open your sound settings. |
| | | 27. Lighting Settings | Tap to open your Lighting settings. |
| | | 28. Radio | Tap to open the radio player and access your available stations and controls.. |

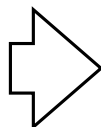
4F and 4F LSV comes standard with adjustable seat and rear flip seat.

Rear Flip Seat Move front seat forward until it stops, flip rear seat down until it sits on front seatpod. Move front seat backward.

Note: Read warning decal before use.

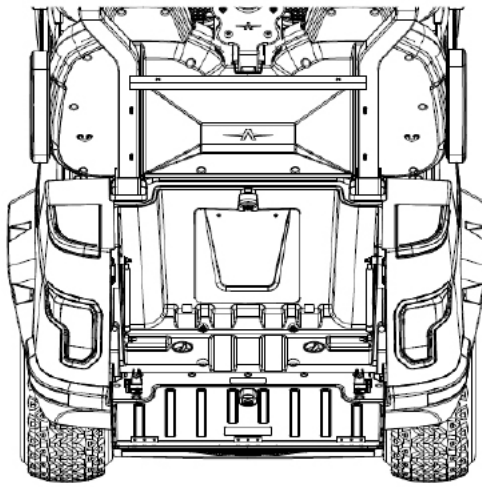


Press this button to move seat forward

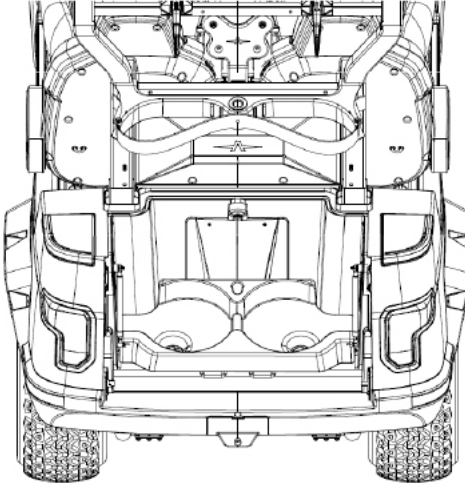


Press this button to move seat backward

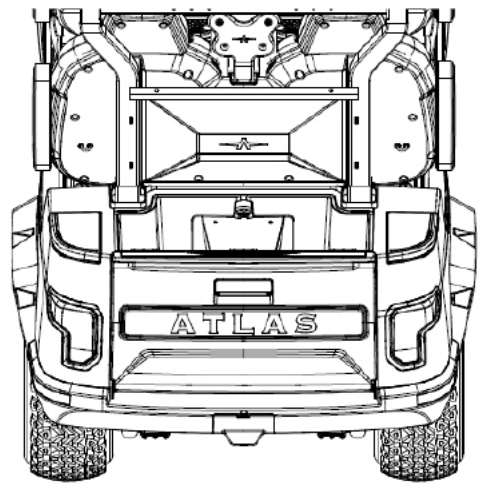
4F and 4F LSV Tailgate Feature



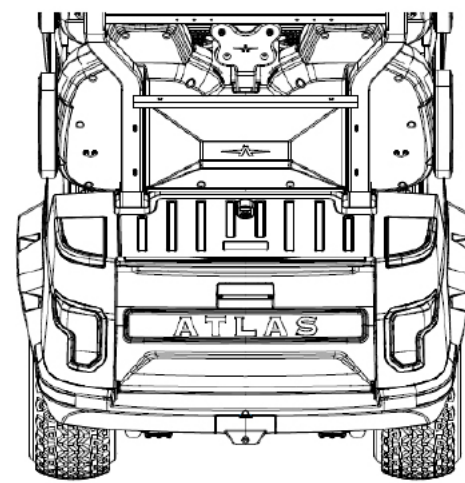
Tailgate Open



Tailgate Removed



Tailgate closed with lid open



Tailgate closed with lid closed

Note: Read warning decal before use.

Onboard Battery Charger Safety Warning



Failure to observe the following safety precautions when charging the on-board battery may result in fire, property damage, serious personal injury or death.



Connect the charger power cord to an outlet that is correctly installed and grounded according to all local codes and regulations.

A grounded outlet is necessary to decrease the risk of electric shock – do not use ground adapters or replace the plug.

If an extension cord is needed, only use approved male to female AC power cord. 12/3 SJTOW Heavy Duty, 125 volt, 1875 watt, 15 Amp, AC Cord with 3 Prong Grounded Plug.

Do not touch parts of output connector or battery terminals that do not have insulation. Inspect the power cord for damage before connecting.

Disconnect the AC plug before you make or break the connections to a battery that is charging.

Do not pull the cord to disconnect the charger.

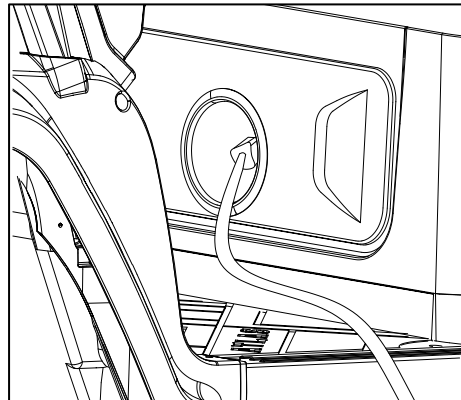
The on-board charger is not user serviceable. Do not open or disassemble the on-board charger.

Do not operate the charger if the AC cord is damaged. Make sure qualified personnel does all repair work to the charger.

Never charge batteries in a hazardous environment.

Do not charge the battery in a wet location. Keep the power cord dry.

Contact dealer for replacement cord or on-board battery charger service.



Some Atlas models are designed to not allow charging of the lithium battery when temperature of battery is below 32 degrees F (0 degrees C). This is normal and charging will resume when battery temperature is above freezing. Please contact your dealer for more information.

Federal Communications Commission

“This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

European Conformity

This vehicle is European conformity (CE) certified per EU 2006/42/EC, 2014/30/EU Electromagnetic Compatibility Directive and 2014/35/EU Low Voltage Equipment Directive.

Vehicle Specifications 2N

SECTION

4

Manufacturer Data

Manufacturer	Atlas Carts
Model Name	Two Passenger
Model Number	2N

Dimensions

Vehicle Length	92.5 in. (2350 mm)
Vehicle Width	52.36 in. (1330 mm)
Vehicle Height	81 in. 72.8 in. (1859 mm)
Ground Clearance	5.3 in. (135 mm)
Wheel Track Front	33.86 in. (860 mm)
Wheel Track Rear	38.19 in. (970 mm)
Wheelbase	65.7 in. (1670 mm)
Turning Radius	161.4 in. (4.1 M)
Step in Height	12.25 in.

Performance

Forward Speed (On Level Ground)	19.3 mph
Operational Temperature Range	-4 degrees F to 122 degrees F (-20 degrees C to 50 degrees C)

Electrical

Motor Type	KDS AC 5KW
Motor Horsepower Rating	6.7
Battery Type	See page 28 for Battery Specifications
Battery Quantity	1
AC Voltage Input	85–270VAC
AC Current Input	12.0A @ 120VAC; 6.1A @220V Max.
Frequency	50/60Hz
DC Voltage	68V Max.
DC Current	25A Max.

Mechanical

Brake Fluid	DOT 4
Transaxle Fluid Capacity	.65 liters; 85W-90GL-5

Note: For Battery, Vehicle Weight, and Maximum Payload specifications see page 28

Manufacturer Data

Manufacturer	Atlas Carts
Model Name	Four Passenger Lifted
Model Number	4N

Dimensions

Vehicle Length	110.2 in. (2800 mm)
Vehicle Width	52.36 in. (1330 mm)
Vehicle Height	74.8 in. (1900 mm)
Ground Clearance	5.3 in. (135 mm)
Wheel Track Front	33.86 in. (860 mm)
Wheel Track Rear	38.19 in. (970 mm)
Wheelbase	65.7 in. (1670 mm)
Turning Radius	161.4 in. (4.4 M)
Step in Height	12.25 in.

Performance

Forward Speed (On Level Ground)	19.3 mph
Operational Temperature Range	-4 degrees F to 122 degrees F (-20 degrees C to 50 degrees C)

Electrical

Motor Type	KDS AC 5KW
Motor Horsepower Rating	6.7
Battery Type	See page 28 for Battery Specifications
Battery Quantity	1
AC Voltage Input	85–270VAC
AC Current Input	12.0A @ 120VAC; 6.1A @220V Max.
Frequency	50/60Hz
DC Voltage	68V Max.
DC Current	25A Max.

Mechanical

Brake Fluid	DOT 4
Transaxle Fluid Capacity	.65 liters; 85W-90GL-5

Note: For Battery, Vehicle Weight, and Maximum Payload specifications see page 28

Manufacturer Data

Manufacturer	Atlas Carts
Model Name	Four Passenger Lifted
Model Number	4L

Dimensions

Vehicle Length	112.2 in. (2850 mm)
Vehicle Width	52.36 in. (1330 mm)
Vehicle Height	80.7 in. (2050 mm)
Ground Clearance	6.5 in. (165 mm)
Wheel Track Front	36.4 in. (925 mm)
Wheel Track Rear	38.19 in. (970 mm)
Wheelbase	66.7 in. (1695 mm)
Turning Radius	173.2 in. (4.4 M)
Step in Height	12.25 in.

Performance

Forward Speed (On Level Ground)	19.3 mph
Operational Temperature Range	-4 degrees F to 122 degrees F (-20 degrees C to 50 degrees C)

Electrical

Motor Type	KDS AC 5KW
Motor Horsepower Rating	6.7
Battery Type	See page 28 for Battery Specifications
Battery Quantity	1
AC Voltage Input	85–270VAC
AC Current Input	12.0A @ 120VAC; 6.1A @220V Max.
Frequency	50/60Hz
DC Voltage	68V Max.
DC Current	25A Max.

Mechanical

Brake Fluid	DOT 4
Transaxle Fluid Capacity	.65 liters; 85W-90GL-5

Note: For Battery, Vehicle Weight, and Maximum Payload specifications see page 28

Manufacturer Data

Manufacturer	Atlas Carts
Model Name	Six Passenger
Model Number	6N

Dimensions

Vehicle Length	143.7 in. (3650 mm)
Vehicle Width	52.36 in. (1330 mm)
Vehicle Height	74.8 in. (1900 mm)
Ground Clearance	5.3 in. (135 mm)
Wheel Track Front	33.86 in. (860 mm)
Wheel Track Rear	38.19 in. (970 mm)
Wheelbase	98 in. (2490 mm)
Turning Radius	173.2 in. (6.1 M)
Step in Height	in.

Performance

Forward Speed (On Level Ground)	19.3 mph
Operational Temperature Range	-4 degrees F to 122 degrees F (-20 degrees C to 50 degrees C)

Electrical

Motor Type	KDS AC 5KW
Motor Horsepower Rating	6.7
Battery Type	See page 28 for Battery Specifications
Battery Quantity	1
AC Voltage Input	85–270VAC
AC Current Input	12.0A @ 120VAC; 6.1A @220V Max.
Frequency	50/60Hz
DC Voltage	68V Max.
DC Current	25A Max.

Mechanical

Brake Fluid	DOT 4
Transaxle Fluid Capacity	.65 liters; 85W-90GL-5

Note: For Battery, Vehicle Weight, and Maximum Payload specifications see page 28

Vehicle Specifications 6L

SECTION

4

Manufacturer Data

Manufacturer	Atlas Carts
Model Name	Six Passenger Lifted
Model Number	6L

Dimensions

Vehicle Length	145.67 in. (3700 mm)
Vehicle Width	52.36 in. (1330 mm)
Vehicle Height	80.7 in. (2050 mm)
Ground Clearance	5.3 in. (135 mm)
Wheel Track Front	33.86 in. (860 mm)
Wheel Track Rear	38.19 in. (970 mm)
Wheelbase	99 in. (2515 mm)
Turning Radius	263.8 in. (6.7 M)
Step in Height	12.25 in.

Performance

Forward Speed (On Level Ground)	19.3 mph
Operational Temperature Range	-4 degrees F to 122 degrees F (-20 degrees C to 50 degrees C)

Electrical

Motor Type	KDS AC 5KW
Motor Horsepower Rating	6.7
Battery Type	See page 28 for Battery Specifications
Battery Quantity	1
AC Voltage Input	85–270VAC
AC Current Input	12.0A @ 120VAC; 6.1A @ 220V Max.
Frequency	50/60Hz
DC Voltage	68V Max.
DC Current	25A Max.

Mechanical

Brake Fluid	DOT 4
Transaxle Fluid Capacity	.65 liters; 85W-90GL-5

Note: For Battery, Vehicle Weight, and Maximum Payload specifications see page 28

Manufacturer Data

Manufacturer	Atlas Carts
Model Name	Two Passenger
Model Number	2N LSV

Dimensions

Vehicle Length	92.5 in. (2350 mm)
Vehicle Width	52.36 in. (1330 mm)
Vehicle Height	72.8 in. (1859 mm)
Ground Clearance	5.3 in. (135 mm)
Wheel Track Front	33.86 in. (860 mm)
Wheel Track Rear	38.19 in. (970 mm)
Wheelbase	65.7 in. (1670 mm)
Turning Radius	161.4 in. (4.4 M)
Step in Height	12.25 in.

Performance

Forward Speed (On Level Ground)	25 mph (40.2 km/h) maximum
Operational Temperature Range	-4 degrees F to 122 degrees F (-20 degrees C to 50 degrees C)

Electrical

Motor Type	KDS AC 5KW
Motor Horsepower Rating	6.7
Battery Type	See page 28 for Battery Specifications
Battery Quantity	1
AC Voltage Input	85–270VAC
AC Current Input	12.0A @ 120VAC; 6.1A @220V Max.
Frequency	50/60Hz
DC Voltage	68V Max.
DC Current	25A Max.

Mechanical

Brake Fluid	DOT 4
Transaxle Fluid Capacity	.65 liters; 85W-90GL-5

Note: For Battery, Vehicle Weight, and Maximum Payload specifications see page 28

Vehicle Specifications 4N LSV

SECTION

4

Manufacturer Data

Manufacturer	Atlas Carts
Model Name	Four Passenger
Model Number	4N LSV

Dimensions

Vehicle Length	110.2 in. (2800 mm)
Vehicle Width	52.36 in. (1330 mm)
Vehicle Height	74.8 in. (1900 mm)
Ground Clearance	5.3 in. (135 mm)
Wheel Track Front	33.86 in. (860 mm)
Wheel Track Rear	38.19 in. (970 mm)
Wheelbase	65.7 in. (1670 mm)
Turning Radius	161.4 in. (4.4 M)
Step in Height	12.25 in.

Performance

Forward Speed (On Level Ground)	25 mph (40.2 km/h) maximum
Operational Temperature Range	-4 degrees F to 122 degrees F (-20 degrees C to 50 degrees C)

Electrical

Motor Type	KDS AC 5KW
Motor Horsepower Rating	6.7
Battery Type	See page 28 for Battery Specifications
Battery Quantity	1
AC Voltage Input	85–270VAC
AC Current Input	12.0A @ 120VAC; 6.1A @220V Max.
Frequency	50/60Hz
DC Voltage	68V Max.
DC Current	25A Max.

Mechanical

Brake Fluid	DOT 4
Transaxle Fluid Capacity	.65 liters; 85W-90GL-5

Note: For Battery, Vehicle Weight, and Maximum Payload specifications see page 28

Manufacturer Data

Manufacturer	Atlas Carts
Model Name	Four Passenger Lifted
Model Number	4L LSV

Dimensions

Vehicle Length	112.2 in. (2850 mm)
Vehicle Width	52.36 in. (1330 mm)
Vehicle Height	80.7 in. (2050 mm)
Ground Clearance	6.5 in. (165 mm)
Wheel Track Front	36.4 in. (925 mm)
Wheel Track Rear	38.19 in. (970 mm)
Wheelbase	66.7 in. (1695 mm)
Turning Radius	173.2 in. (4.4 M)
Step in Height	12.25 in.

Performance

Forward Speed (On Level Ground)	25 mph (40.2 km/h) maximum
Operational Temperature Range	-4 degrees F to 122 degrees F (-20 degrees C to 50 degrees C)

Electrical

Motor Type	KDS AC 5KW
Motor Horsepower Rating	6.7
Battery Type	See page 28 for Battery Specifications
Battery Quantity	1
AC Voltage Input	85–270VAC
AC Current Input	12.0A @ 120VAC; 6.1A @220V Max.
Frequency	50/60Hz
DC Voltage	68V Max.
DC Current	25A Max.

Mechanical

Brake Fluid	DOT 4
Transaxle Fluid Capacity	.65 liters; 85W-90GL-5

Note: For Battery, Vehicle Weight, and Maximum Payload specifications see page 28

Manufacturer Data

Manufacturer	Atlas Carts
Model Name	Six Passenger
Model Number	6N LSV

Dimensions

Vehicle Length	143.7 in. (3650 mm)
Vehicle Width	52.36 in. (1330 mm)
Vehicle Height	74.8 in. (1900 mm)
Ground Clearance	5.3 in. (135 mm)
Wheel Track Front	33.86 in. (860 mm)
Wheel Track Rear	38.19 in. (970 mm)
Wheelbase	98 in. (2490 mm)
Turning Radius	173.2 in. (6.1 M)
Step in Height	12.25 in.

Performance

Forward Speed (On Level Ground)	25 mph (40.2 km/h) maximum
Operational Temperature Range	-4 degrees F to 122 degrees F (-20 degrees C to 50 degrees C)

Electrical

Motor Type	KDS AC 5KW
Motor Horsepower Rating	6.7
Battery Type	See page 28 for Battery Specifications
Battery Quantity	1
AC Voltage Input	85–270VAC
AC Current Input	12.0A @ 120VAC; 6.1A @220V Max.
Frequency	50/60Hz
DC Voltage	68V Max.
DC Current	25A Max.

Mechanical

Brake Fluid	DOT 4
Transaxle Fluid Capacity	.65 liters; 85W-90GL-5

Note: For Battery, Vehicle Weight, and Maximum Payload specifications see page 28

Manufacturer Data

Manufacturer	Atlas Carts
Model Name	Six Passenger
Model Number	6L LSV

Dimensions

Vehicle Length	145.67 in. (3700 mm)
Vehicle Width	52.36 in. (1330 mm)
Vehicle Height	80.7 in. (2050 mm)
Ground Clearance	5.3 in. (135 mm)
Wheel Track Front	33.86 in. (860 mm)
Wheel Track Rear	38.19 in. (970 mm)
Wheelbase	99 in. (2515 mm)
Turning Radius	263.8 in. (6.7 M)
Step in Height	12.25 in.

Performance

Forward Speed (On Level Ground)	25 mph (40.2 km/h) maximum
Operational Temperature Range	-4 degrees F to 122 degrees F (-20 degrees C to 50 degrees C)

Electrical

Motor Type	KDS AC 5KW
Motor Horsepower Rating	6.7
Battery Type	See page 28 for Battery Specifications
Battery Quantity	1
AC Voltage Input	85–270VAC
AC Current Input	12.0A @ 120VAC; 6.1A @220V Max.
Frequency	50/60Hz
DC Voltage	68V Max.
DC Current	25A Max.

Mechanical

Brake Fluid	DOT 4
Transaxle Fluid Capacity	.65 liters; 85W-90GL-5

Note: For Battery, Vehicle Weight, and Maximum Payload specifications see page 28

Vehicle Specifications 4F

SECTION

4

Manufacturer Data

Manufacturer	Atlas Carts
Model Name	Four Passenger
Model Number	4F

Dimensions

Vehicle Length	116.93 in. (2970 mm)
Vehicle Width	49.8 in. (1265 mm)
Vehicle Height	76.97 in. (1955 mm)
Ground Clearance	5.3 in. (135 mm)
Wheel Track Front	37.99 in. (965 mm)
Wheel Track Rear	40.55 in. (1030 mm)
Wheelbase	82.28 in. (2090 mm)
Turning Radius	175.2 in. (4.45 M)
Step in Height	13.19 in. (335 mm)

Performance

Forward Speed (On Level Ground)	19.3 mph
Operational Temperature Range	-4 degrees F to 122 degrees F (-20 degrees C to 50 degrees C)

Electrical

Motor Type	KDS AC 5KW
Motor Horsepower Rating	6.7
Battery Quantity	1
AC Voltage Input	85–270VAC
AC Current Input	12.0A @ 120VAC; 6.1A @220V Max.
Frequency	50/60Hz
DC Voltage	68V Max.
DC Current	25A Max.

Mechanical

Brake Fluid	DOT 4
Transaxle Fluid Capacity	.65 liters; 85W-90GL-5

Vehicle Weight and Load Capacities

Maximum Number of Occupants	4
Vehicle Curb Weight Includes Fluids and 48V Lithium Battery	1,236 lbs. (560 kg) 105 AH 1,279 lbs. (580 lg) 173 AH
Maximum Payload	917 lbs. (416 kg)
Gross Vehicle Weight Rating (GVWR) Includes total vehicle weight, fluids, battery, passenger, and cargo	2,152 lbs. (976 kg) 105 AH 2,196lbs. (966 kg) 172 AH
Trailer Weight	1,500 lbs. Max
Tongue Weight	150 lbs. Max



WARNING

If the rated capacities of the vehicle are exceeded, property damage, serious personal injury, or death can occur.

Do not exceed the rated capacity of the vehicle. The stated rated capacity is for level surfaces only.

Excess weight in the vehicle can affect the vehicle handling, or cause component failure, resulting in loss of control of the vehicle.

Do not use the vehicle to tow another vehicle or a trailer.

Vehicle Specifications 4F LSV

SECTION

4

Manufacturer Data

Manufacturer	Atlas Carts
Model Name	Four Passenger
Model Number	4F LSV

Dimensions

Vehicle Length	116.93 in. (2970 mm)
Vehicle Width	49.8 in. (1265 mm)
Vehicle Height	76.97 in. (1955 mm)
Ground Clearance	5.3 in. (135 mm)
Wheel Track Front	37.99 in. (965 mm)
Wheel Track Rear	40.55 in. (1030 mm)
Wheelbase	82.28 in. (2090 mm)
Turning Radius	175.2 in. (4.45 M)
Step in Height	13.19 in. (335 mm)

Performance

Forward Speed (On Level Ground)	25 mph
Operational Temperature Range	-4 degrees F to 122 degrees F (-20 degrees C to 50 degrees C)

Electrical

Motor Type	KDS AC 5KW
Motor Horsepower Rating	6.7
Battery Quantity	1
AC Voltage Input	85–270VAC
AC Current Input	12.0A @ 120VAC; 6.1A @220V Max.
Frequency	50/60Hz
DC Voltage	68V Max.
DC Current	25A Max.

Mechanical

Brake Fluid	DOT 4
Transaxle Fluid Capacity	.65 liters; 85W-90GL-5

Vehicle Weight and Load Capacities

Maximum Number of Occupants	4
Vehicle Curb Weight Includes Fluids and 48V Lithium Battery	1,236 lbs. (560 kg) 105 AH 1,279 lbs. (580 kg) 173 AH
Maximum Payload	917 lbs. (416 kg)
Gross Vehicle Weight Rating (GVWR) Includes total vehicle weight, fluids, battery, passenger, and cargo	2,152 lbs. (976 kg) 105 AH 2,196lbs. (966 kg) 172 AH
Trailer Weight	1,500 lbs. Max
Tongue Weight	150 lbs. Max



WARNING

If the rated capacities of the vehicle are exceeded, property damage, serious personal injury, or death can occur.

Do not exceed the rated capacity of the vehicle. The stated rated capacity is for level surfaces only.

Excess weight in the vehicle can affect the vehicle handling, or cause component failure, resulting in loss of control of the vehicle.

Do not use the vehicle to tow another vehicle or a trailer.

Battery Specifications, Vehicle Weight, and Max Payload

MOSFET 105AH and 173AH Lithium Battery

Model		2N	4N	4L	6N	6L
Maximum Number of Occupants		2	4	4	6	6
Vehicle Curb Weight Includes fluids and 48V Lithium Battery	105 AH Battery	933 lbs (423 kg)	1039 lbs (472 kg)	1061 lbs (482 kg)		
	173 AH Battery	1003 lbs (455 kg)	1109 lbs (503 kg)	1164 lbs (528 kg)	1327 lbs (602 kg)	1356 lbs (615 kg)
Maximum Payload		500 lbs (227 kg)	900 lbs (408 kg)	900 lbs (408 kg)	1300 lbs (590 kg)	1300 lbs (590 kg)
Gross Vehicle Weight Rating (GVWR) Includes total vehicle weight, fluids, Lithium Battery, passengers, and cargo	105 AH Battery	1433 lbs (650 kg)	1939 lbs (880 kg)	1961 lbs (889 kg)		
	173 AH Battery	1503 lbs (682 kg)	2009 lbs (911 kg)	2064 lbs (936 kg)	2627 lbs (1192 kg)	2656 lbs (1205 kg)

Model		2N LSV	4N LSV	4L LSV	6N LSV	6L LSV
Maximum Number of Occupants		2	4	4	6	6
Vehicle Curb Weight Includes fluids and 48V Lithium Battery	105 AH Battery	933 lbs (423 kg)	1039 lbs (472 kg)	1061 lbs (482 kg)		
	173 AH Battery	1003 lbs (455 kg)	1109 lbs (503 kg)	1164 lbs (528 kg)	1327 lbs (602 kg)	1356 lbs (615 kg)
Maximum Payload		500 lbs (227 kg)	900 lbs (408 kg)	900 lbs (408 kg)	1300 lbs (590 kg)	1300 lbs (590 kg)
Gross Vehicle Weight Rating (GVWR) Includes total vehicle weight, fluids, Lithium Battery, passengers, and cargo	105 AH Battery	1433 lbs (650 kg)	1939 lbs (880 kg)	1961 lbs (889 kg)		
	173 AH Battery	1503 lbs (682 kg)	2009 lbs (911 kg)	2064 lbs (936 kg)	2627 lbs (1192 kg)	2656 lbs (1205 kg)

RELAY 105AH and 210AH Lithium Battery

Model		2N	4N	4L	6N	6L
Maximum Number of Occupants		2	4	4	6	6
Vehicle Curb Weight Includes fluids and 48V Lithium Battery	105 AH Battery	939 lbs (425 kg)	1045 lbs (474 kg)	1067 lbs (484 kg)		
	210 AH Battery	1036 lbs (470 kg)	1142 lbs (518 kg)	1197 lbs (543 kg)	1360 lbs (617 kg)	1389 lbs (630 kg)
Maximum Payload		500 lbs (227 kg)	900 lbs (408 kg)	900 lbs (408 kg)	1300 lbs (590 kg)	1300 lbs (590 kg)
Gross Vehicle Weight Rating (GVWR) Includes total vehicle weight, fluids, Lithium Battery, passengers, and cargo	105 AH Battery	1439 lbs (652 kg)	1945 lbs (882 kg)	1967 lbs (892 kg)		
	210 AH Battery	1536 lbs (697 kg)	2042 lbs (926 kg)	2097 lbs (951 kg)	2660 lbs (1207 kg)	2689 lbs (1220 kg)

Model		2N LSV	4N LSV	4L LSV	6N LSV	6L LSV
Maximum Number of Occupants		2	4	4	6	6
Vehicle Curb Weight Includes fluids and 48V Lithium Battery	105 AH Battery	939 lbs (425 kg)	1045 lbs (474 kg)	1067 lbs (484 kg)		
	210 AH Battery	1036 lbs (470 kg)	1142 lbs (518 kg)	1197 lbs (543 kg)	1360 lbs (617 kg)	1389 lbs (630 kg)
Maximum Payload		500 lbs (227 kg)	900 lbs (408 kg)	900 lbs (408 kg)	1300 lbs (590 kg)	1300 lbs (590 kg)
Gross Vehicle Weight Rating (GVWR) Includes total vehicle weight, fluids, Lithium Battery, passengers, and cargo	105 AH Battery	1439 lbs (652 kg)	1945 lbs (882 kg)	1967 lbs (892 kg)		
	210 AH Battery	1536 lbs (697 kg)	2042 lbs (926 kg)	2097 lbs (951 kg)	2660 lbs (1207 kg)	2689 lbs (1220 kg)



WARNING

If the rated capacities of the vehicle are exceeded, property damage, serious personal injury, or death

can occur. Do not exceed the rated capacity of the vehicle. The stated rated capacity is for level surfaces only.

Excess weight in the vehicle can affect the vehicle handling, or cause component failure, resulting in loss of control of the vehicle. Do not use the vehicle to tow another vehicle or a trailer.

Operator Safety

This section of the manual provides information on the safe vehicle operation. Safe and responsible use of this vehicle is necessary to prevent dangerous conditions for the operator, passengers and other people in the area of operation. Make sure you read, understand and comply with all of this information.



Failure to operate this vehicle as instructed can cause collision, loss of control or tip over resulting in severe injury or death. Follow all safety warnings in this owner's manual.

- Do not operate the vehicle where there is a risk of falling objects.
- Make sure all occupants are fully seated with seat belts attached at all times.
- Do not allow a passenger to hold a child on their lap while the vehicle is in operation.
- Stay clear of steep slopes, drop-offs, and unstable surfaces.
- Avoid sudden starts, stops, and sharp turns.
- Proper vehicle maintenance is very important. Do not endanger yourself or your passengers. Make necessary repairs as soon as possible to maintain maximum vehicle performance.
- Before operating the vehicle, check that all passengers can secure themselves in the vehicle.
- The operator and all passengers should keep their entire body in the vehicle during operation.
- All persons must comply with the warnings and operating instructions.
- Handicapped persons should not ride in the vehicle.
- Passengers must remain seated at all times and hold onto hand holds or handrails when the vehicle is in operation to prevent falls from the vehicle.
- The driver must keep both hands on the steering wheel when the vehicle is in operation.
- NEVER make a sharp turn when operating at a high rate of speed to prevent falling from the vehicle or vehicle tip over.
- Disable the vehicle before leaving the vehicle unattended or during vehicle maintenance.
- Children that require a safety seat must NOT ride on the vehicle. Comply with state and local laws pertaining to child safety. The vehicle does NOT meet child safety seat requirements.
- Persons, including children, with reduced physical, sensory or mental capabilities should not operate the vehicle unless they have been given supervision or instruction concerning the use of the vehicle by a person responsible for their safety. Children should not play with the vehicle.



- The vehicle should only be operated from the drivers seat.
- Do not operate the vehicle on public roads or highways. Always operate the vehicle in safe designated areas.
- Observe local and state laws when operating the vehicle.
- Pay attention and exercise caution when operating the vehicle in the presence of other vehicles, in congested areas, or on unimproved surfaces.

Safety Check Overview

Use the daily pre-operation checklist and vehicle performance inspection to inspect the operational condition and performance of the vehicle.

If a vehicle is found to be in bad operational condition, remove it from operation. Removal from operation will prevent more damage to the vehicle and prevent a serious injury.

If the vehicle is removed from operation, contact your dealer to schedule repairs.

Daily Pre-Operation Safety Checklist

Safety Decals

- Make sure all safety, regulatory, and marketing decals are correctly installed.
- Clean the decals with a soft moist cloth.
- Replace missing, worn, or damaged decals.

Tires

- Examine for wear and damage.
- Replace worn or damaged tires.
- Make sure that the tire pressure is correct.

Battery

- Make sure that the battery is fully charged.
- Have a trained technician replace missing, worn, or damaged items.

Battery Charger

- Examine the electrical cords for cracks, loose connections, and frayed wires.
- Examine receptacle contacts and plug terminals. Clean as necessary.
- Replace missing, worn, or damaged items.
- Make sure that the battery charger operates correctly.

Vehicle Performance Test

- Front wheels should be turned straight.
- If any wheel has been chocked, remove the wheel chock.
- Listen for unusual noises such as squeaks or rattles.
- Examine the ride and performance of the vehicle.
- Examine the steering. The vehicle must be easy to steer and must not have play in the steering wheel.
- The vehicle must stop smooth and straight. The brake pedal should not go all the way to the floorboard when applied.

Have a trained technician do a brake system check if:

- The vehicle pulls in any direction.
- The brake pedal goes more than half the distance to the floorboard with moderate pressure applied.
- The vehicle does not stop.

Maintenance Safety Overview



Routine and scheduled maintenance of this vehicle is necessary to keep your vehicle in safe and reliable condition. This section of the manual provides safety information for performing maintenance on your vehicle. Make sure you read, understand and comply with all of this information to decrease the risk of personal injury or death.

A wheel or tire that has damage can cause property damage, serious personal injury, or death. Do not attempt to repair a wheel or tire. Contact your dealer for repairs.

Unintended vehicle operation can cause serious personal injury or death. Be sure to turn the vehicle off before leaving the vehicle or during vehicle maintenance.

Atlas recommends that experienced technicians should service or repair the vehicle. Technicians should have experience in electrical and mechanical repairs and follow all instructions when working on the vehicle.

Maximum vehicle performance is achieved by performing regular maintenance and repairs. If problems arise during vehicle operation or during an inspection, operate the vehicle only after repairs have been made.

Do not work on the vehicle powertrain when the vehicle is loaded.

Use insulated tools whenever possible to avoid electrical shorts or electrical shock.

When servicing the vehicle or battery charger, do not wear any loose clothing or jewelry such as rings, watches, chains, etc.

Use a suitable lifting device with a minimum of 1,000 LB. (454 KG) lifting capacity. Do not use the lifting device to support the vehicle in the lifted position. Lift only one end of the vehicle at a time. Always use approved jack stands to support the vehicle and use wheel chocks to support the wheels that remain on the ground.

If any wires are removed or replaced, the replacement wires must match the same gauge and be routed and attached correctly.



Always wear safety glasses when servicing the vehicle. When working near the battery, wearing rubber gloves is recommended.



Before leaving the vehicle or during maintenance of the vehicle, always disable the vehicle.

- Be sure to park the vehicle on a solid level surface.
- Turn the key to **OFF** position.
- Remove the key.
- Set the Forward / Neutral / Reverse switch to **N** position.
- Place chocks against the wheels to prevent unintended vehicle movement.

Vehicle Cleaning

NOTICE

Cleaning the Windshield

Use a soft towel and water to clean the windshield. Use mild soap as necessary. Do not use a household window cleaner.

Cleaning the Vehicle Exterior

Moisture can cause electrical component damage. Do not use a pressure washer or steam cleaner when cleaning the vehicle.

Commercially available automotive cleaners are recommended. Use a sponge or soft cloth for normal cleaning. A garden hose at normal residential water pressure is adequate.

Remove road tar and bugs immediately to prevent possible stains.

Use a non-abrasive wax product.

Cleaning the Vehicle Interior

Proper cleaning of the vehicle seats will help preserve the life of the seats. Use a solution of 10% liquid soap and warm water applied with a soft cloth. Use a soft bristle brush to remove embedded dirt.

Preventative Maintenance

A regular maintenance schedule can prevent excessive vehicle downtime and repair costs. Use these items to keep the vehicle in proper working condition.

- Daily Pre-Operation Safety Checklist
- Vehicle Performance Inspection
- Maintenance Service Schedule

If any problems are found during routine vehicle inspection or while operating the vehicle, make arrangements to have the vehicle repaired. Contact your dealer to schedule repairs.

Maintenance & Service Recommendation

Daily	Pre-Operation Safety Check (see Section 6) Charge the battery
Weekly	Check the Tire pressure
Monthly	Clean vehicle
3 Months	Inspect the windshield wiper blade. Replace as necessary.
6 Months	Have trained technician: • inspect and lubricate the brake system • Inspect the electrical system • Inspect wheel alignment • lubricate front suspension
12 Months	Have trained technician: • inspect pedal components • transaxle fluid level • safety decals

**Lifetime Powertrain
Warranty (motor,
controller, and transaxle)**6 Months
After Purchase

Replace transaxle fluid

12 Months or
3,000 miles

After initial 6 months service is completed, replace axle fluid every 12 months or 3,000 miles, whichever comes first.

Every 24 Months

Replace transaxle oil seals

Contact your authorized Atlas Dealer to schedule service to retain the lifetime powertrain warranty. See Section 1 Atlas vehicle Warranty for details.

Safety Precautions

When servicing the vehicle, the vehicle may need to be raised.

Never get under a vehicle that is only supported by a jack. The vehicle should be parked on a level and firm surface. Wheels chocks must be used in front and behind wheels that remain on the ground. Use appropriate size jack stands to support the vehicle. Failure to follow these safety precautions could result in injury or death. Use extreme care.

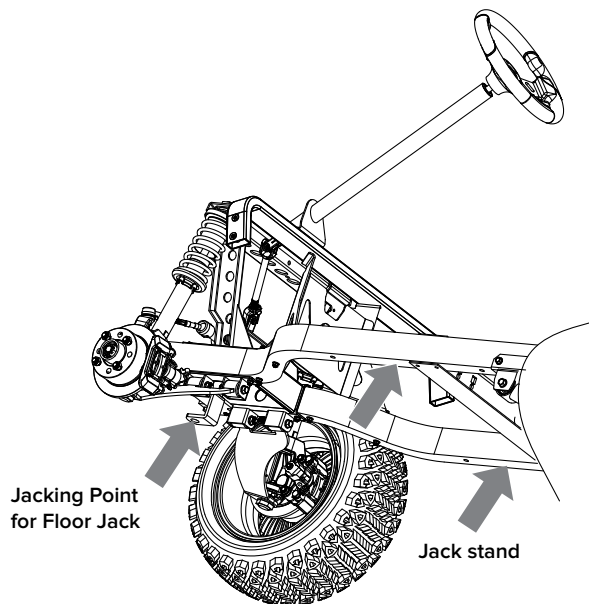
Position the jack and jack stands only as shown in the illustration below.

Lifting the Vehicle Front

- Disable the vehicle by turning the key to **OFF** position.
 - Use a jack and jack stands rated for 1,000 lbs.
1. Place chocks against rear wheels as required to prevent unintended vehicle movement
 2. Place the jack at the center of the front lifting point on the vehicle frame as shown in the illustration below.
 3. Lift the vehicle.
 4. Place jack stands under the frame at the points shown for each side of the vehicle as shown in the illustration below.
 5. Lower vehicle until the vehicle is securely supported by both jack stands.

Lowering the Front of the Vehicle

1. Place the jack at the center of the lifting point on the vehicle frame as shown in the illustration below.
2. Lift the vehicle until the jack stands are clear.
3. Remove the jack stands. **(DO NOT GET UNDER VEHICLE AT THIS POINT)**
4. Lower the vehicle and remove jack.
5. Remove all wheel chocks.



Note:
Position the floor jack below the tow bracket as shown. If a brushguard is installed, use the bottom of the brushguard as the jacking point.

Lifting the Vehicle Rear

Follow the same safety precautions as shown at the top of page 41.

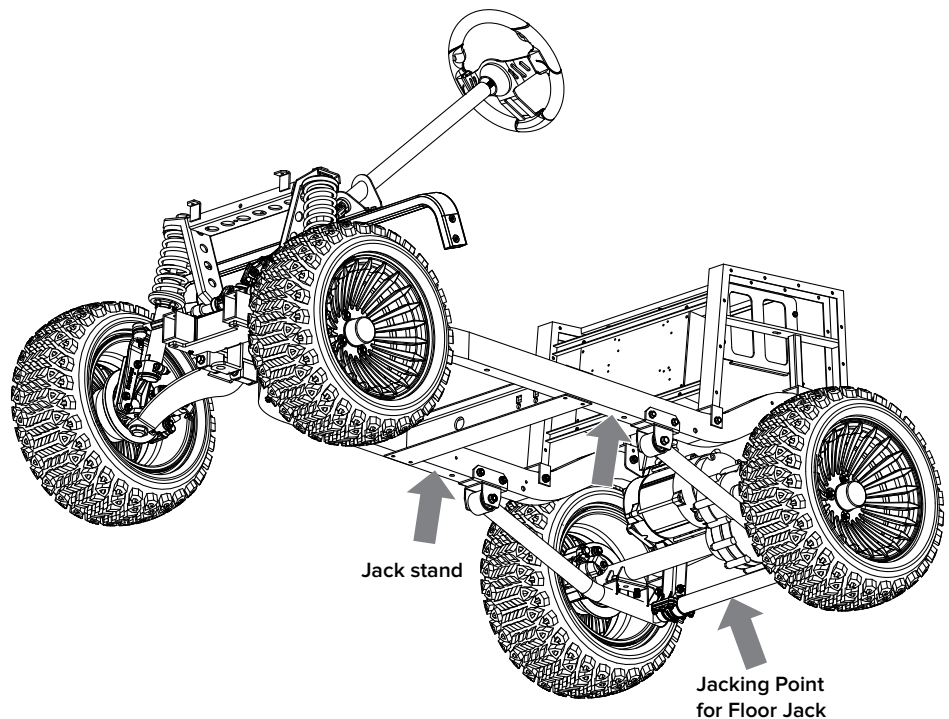
Position the jack and jack stands only as shown in the illustration below.

Lifting the Rear of the Vehicle

- Disable the vehicle by turning the key to **OFF** position.
 - Use a jack stand and jack stands rated for the vehicle weight..
1. Place chocks against front wheels as required to prevent unintended vehicle movement
 2. Place the jack at the center of the lifting point on the vehicle axle as shown in the illustration below.
 3. Lift the vehicle.
 4. Place jack stands under the frame at the points shown for each side of the vehicle.
 5. Lower the vehicle until the vehicle is securely supported by the jack stands.

Lowering the Rear of the Vehicle

1. Place the jack at the center of the lifting point on the vehicle axle as shown in the illustration below.
2. Lift the vehicle until the jack stands are clear.
3. Remove the jack stands. **(DO NOT GET UNDER VEHICLE AT THIS POINT)**
4. Lower the vehicle and remove jack.
5. Remove all wheel chocks.



Checking Tire Pressure

To check the tire pressure:

1. Remove the cap on the valve stem.
2. Measure the tire pressure with gauge.
3. Recommended tire pressure for front and rear is 20 PSI for Innova 23x10-14 tires. For all other tires, please contact your authorized Atlas dealer.
4. Adjust tire pressure as necessary.

NOTICE

Correct tire pressure is important for maximum vehicle performance and safety. All tires should maintain the correct tire pressure.

Wheel Assembly Removal

Before attempting to remove a wheel, first disable the vehicle by turning the key to the **OFF** position:

1. Remove the center cap.
2. Loosen all four lug nuts. **DO NOT REMOVE THE LUG NUTS YET.**
3. Lift the vehicle. See pages 42 and 43 for correct vehicle lifting procedures.
4. Remove the wheel assembly.

Correct tire pressure is important for maximum vehicle performance and safety. All tires should be the correct tire pressure.

Wheel Assembly Installation

1. If the vehicle is already in the lifted position, proceed to step 2.
Note: If the vehicle needs to be relifted for any reason, see pages 42 and 43 for correct vehicle lifting procedures.
2. Align the wheel assembly onto the hub.
3. Install all four lug nuts. **Snug up the lug nuts but do not final tighten yet.**
4. Lift the vehicle just enough so the jack stands can be removed.
5. Remove jack stands.
6. Lower the vehicle to the ground and remove any wheel chocks.
7. Final tighten the lug nuts to the recommended torque specification of 93 ft.lbs.
8. If center cap was removed, reinstall the center cap now.

Battery and Onboard Charger

Battery Maintenance

The battery does not require maintenance. Contact dealer for battery service and/or replacement. Keep the battery clean by using a soft cloth to wipe away dirt and accumulated debris.

Onboard Charger



Do not charge the battery with the key in the ON position. Charging the battery with the vehicle ON, can cause a fire and serious personal injuries. Turn off all accessories and be sure the vehicle key is in the OFF position.



To prevent a fire the cord and connectors should be free of dirt and debris so that connections at the receptacle are clean and tight. Store the battery charging cord in a clean and dust-free location.

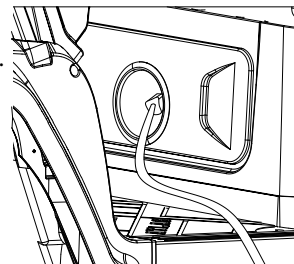
Charging with the onboard charger

1. Be sure all accessories are turned **OFF**.
2. Disable the vehicle by placing the key in the **OFF** position.
3. Do not turn off the main switch that is under the front seat.
4. Connect the charger cord to the vehicle charging port first.
5. Connect the cord to an 120V receptacle.

Note: Onboard charger will start within 20 seconds.

- You will hear the solenoid click within 5 seconds.
- * The charger fan will start within 15 seconds.
- The State of Charge meter will begin flashing red bars within 20 seconds.

6. When charging is complete, disconnect the AC cord before operating the vehicle. Do not operate the vehicle with the cord connected.



Charger Cord Maintenance

Regularly examine cords and plug ends for any damage or excessive wear.



- Replace cords that have any damage such as cracks or frayed wiring,
- Do not splice cords.
- Do not attempt to repair the cord or plugs.
- If any plug pins are bent, contact dealer for replacement cord.



To prevent property damage, electrical shock, serious injury or death, do not clean or lubricate the plug or receptacle with the cord connected to a 120V power source.

Disconnect the cord from the 120V power source.
Clean the plug the connector ends with electrical contact cleaner.

Vehicle Towing / Transporting



Passengers must not ride in the vehicle while it is being towed by another vehicle or while being transported on a trailer.



Do not stand between the tow vehicle and the vehicle being towed. When a vehicle is being towed, stay off public highways and main thoroughfares.



Use extreme caution when towing the Atlas Cart with another vehicle. Do not make sharp turns. Maintain a slow steady speed of 5 mph (8 km/h).

When trailering a vehicle, make sure the vehicle is secure on the trailer. The vehicle can fall from the trailer and cause property damage, serious personal injury or death.

Preparing the Atlas Cart for Towing

- 1. Read and understand the WARNING and CAUTION notes above.**
2. Disable the vehicle by turning the ignition key to the **OFF** position.
3. If necessary, chock the wheels to prevent the vehicle from rolling.
5. Place the Forward / Neutral / Reverse control (**FNR**) to **N**.
5. Turn the main switch (located under the front seat) to the **OFF** position.
6. To manually release electronic parking brake, locate red and black wire coming from the positive battery terminal on the lithium case located under the seat. Remove the plug cover from this red and black wire. Next locate the nearby yellow and green wire marked with the tag labeled "EM brake" and disconnect it from the wire it is connected to. Then connect the yellow and green EM brake wire directly to the red and black wire coming from the positive battery terminal.
7. Securely attach a heavy-duty woven polyester tow strap with a minimum breaking strength of 15,000 lbs. There should be a safety hook on each end. Do not use a rope.
8. Remove the wheel chocks before starting to tow the vehicle.
9. Tow the vehicle under 5 mph (8 km/h).

Preparing the Atlas Cart to be Transported on a Trailer

Note: If the vehicle is operable, it may be safely driven onto a trailer or tow truck bed.

Follow these additional steps if the vehicle is going to be transported on a trailer or flat bed tow truck.

1. Remove the ignition key and keep in a safe place.
2. Remove all cargo and loose belongings from the vehicle.
3. Secure the vehicle to the trailer or truck bed with tie downs or straps.



Before the vehicle is placed in extended storage or during vehicle maintenance, the vehicle must be disabled. Unintended vehicle operation can cause serious personal injury or death.

NOTICE

Do not store the vehicle with a discharged battery.

Storing the Vehicle

Preparing the vehicle for extended storage:

1. Turn **OFF** all accessories.
2. Set the Forward / Neutral / Reverse control (**FNR**) to **N**.
3. Turn the key to the **OFF** position.
4. Remove the key and store in safe place during storage.
5. Place wheel chocks against the wheels.
6. Switch the main power to the **OFF** position.
7. Remove all cargo and personal belongings.
8. Store the vehicle in a dry area, preferably indoors.
9. Check tire pressure and adjust to recommended tire pressure of 20 psi.
10. A drop cloth or suitable cover may be used to keep the vehicle clean.
11. Charge vehicle to **100%**, **unplug charging cable**, **press BMS button to OFF** (ILED will turn off) to put vehicle to sleep.

**When vehicle is left unplugged for 5 days, the vehicle will go into sleep mode to conserve battery charge. To "wake up" vehicle, lift the seat bottom, press the BMS button, and then turn the key to ON position. The BMS button LED indicator will show solid green indicating BMS has been activated, and vehicle can return to normal operation.*

Returning the Vehicle To Service From Extended Storage

Returning the vehicle to service:

1. Make sure the Forward / Neutral / Reverse control (**FNR**) is set to **N**.
2. Switch the main power to the **ON** position.
3. Turn **ON** BMS
4. Remove wheel chocks from the wheels.
5. Check tire pressure and adjust to recommended tire pressure of 20 psi.
6. Perform a daily pre-operation safety check. Refer to page 38 for complete pre-operation safety check instructions.
7. Turn the key to the **ON** position.
8. Have a trained technician or dealer lubricate the vehicle.

Atlas Carts
111 County Road 214
Liberty Hill, TX 78642
