

Owner's Manual

2026

Passenger 2+2
Passenger 4+2
Passenger 6+2
Utility Short Bed
Utility Long Bed
Utility 4

WAEV



WARNING

Read, understand, and follow all of the instructions and safety precautions in this manual and on all product labels.

Failure to follow the safety precautions
could result in serious injury or death.



WARNING

Operating, servicing, and maintaining a passenger vehicle or off-road vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle.

For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

FUSION™

Owner's Manual

2026

waev

This vehicle was manufactured by GEM WAEV LLC, a wholly-owned subsidiary of Waev Inc.

Copyright 2026 GEM WAEV LLC. All information contained within this publication is based on the latest product information at the time of publication. Due to constant improvements in the design and quality of production components, some minor discrepancies may result between the actual vehicle and the information presented in this publication. Depictions and/or procedures in this publication are intended for reference use only. No liability can be accepted for omissions or inaccuracies. Any reprinting or reuse of the depictions and/or procedures contained within, whether whole or in part, is expressly prohibited.

The original instructions for this vehicle are in English. Other languages are provided as translations of the original instructions.

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94-302-29 Rev 02

SAFETY SYMBOLS AND SIGNAL WORDS

The following signal words and symbols appear throughout this manual and on your vehicle. Your safety is involved when these words and symbols are used. Become familiar with their meanings before reading the manual.

DANGER

DANGER indicates a hazardous situation which, if not avoided, **WILL** result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, **COULD** result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **COULD** result in minor or moderate injury

NOTICE

NOTICE provides key information by clarifying instructions.

IMPORTANT

IMPORTANT provides key reminders during disassembly, assembly, and inspection of components

The Prohibition Safety Sign indicates an action **NOT** to take in order to avoid a hazard.



The Mandatory Action Sign indicates an action that **NEEDS** to be taken to avoid a hazard.



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INTRODUCTION

INTRODUCTION OVERVIEW

Please familiarize yourself with all laws and regulations concerning the operation of the vehicle in your area.

This manual applies to the following Fusion vehicles:

- Passenger 2+2
- Passenger 4+2
- Passenger 6+2
- Utility Short Bed
- Utility Long Bed
- Utility 4

FUSION CUSTOMER SERVICE

Phone	1-800-688-8680
Web	www.fusioncarts.com

For the most up-to-date owner's manual and product information, see the Fusion Waev website.

GENERAL WARNINGS

WARNING

Failure to follow the warnings contained in this manual can result in severe injury or death.

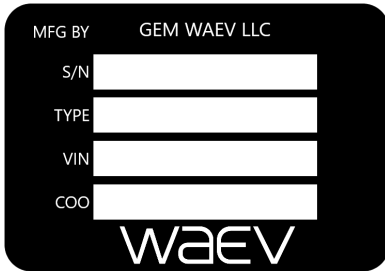
Special precautions must be followed when owning and operating a battery powered vehicle. This vehicle is not a toy and can be hazardous to operate. This vehicle handles differently than other vehicles. A collision or rollover can occur quickly, even during routine maneuvers, if you fail to take proper precautions.

- Read this owner's manual. Understand all safety warnings, precautions, and operating procedures before operating the vehicle. Keep this manual with the vehicle at all times.
- Never permit a guest to operate this vehicle unless the guest has read this manual and all product labels.
- Never use this vehicle with drugs or alcohol, as these conditions impair judgement and reduce operator reaction time.
- Be familiar with motor vehicle laws in your area of operation

VEHICLE IDENTIFICATION DATA PLATE AND VIN DECAL LOCATION

The Data Plate and VIN Decal contain the manufacture information, the basic commercial cart configuration and the production date. The Data Plate and VIN Decal contain either a VIN (LSV) or Serial Number (Cart). With any warranty complaint or spare parts request, please supply this VIN/Serial Number to FUSION™ with the model name.

The Data Plate and VIN Decal are located on the driver's seat base.



Data Plate



VIN Decal

VIN / SERIAL NUMBER AND CHASSIS NUMBER LOCATION

The VIN / Serial Number ① and Chassis Number ② are located on the front of the frame as shown:



SAFETY

SAFETY

GENERAL

For any questions about material in this manual, contact an authorized representative.

Read and understand all labels on the vehicle. Always replace any damaged or missing labels.

Steep hills allow the vehicle to move at faster speeds than normal speeds on a flat surface. To prevent the loss of vehicle control and possible injury, speeds must be controlled to the maximum level ground speed indicated in the GENERAL SPECIFICATIONS section. Apply the brake to control the speed.

If you operate the vehicle above the maximum specified speed, you can damage the drivetrain components. The damage caused by speeds more than the maximum specified can cause a loss of vehicle control, is abusive, and will not be covered under the warranty.

Use caution when you tow the vehicle. Towing the vehicle above the recommended speed can cause personal injury or damage to the vehicle and other property.

If the vehicle is used in a commercial environment, signs must be in position to inform of possible conditions that can be dangerous.

WARNING

Never modify the vehicle in any way that will alter the weight distribution of the vehicle, decrease its stability, increase the speed or extend the stopping distance beyond the factory specification. Such modifications can result in serious personal injury or death.

Do not change the vehicle in any manner that changes the weight distribution, decreases stability, increases speed or extends the necessary distance to stop more than the factory specification. Waev Inc is not responsible for changes that cause the vehicle to be dangerous.

Do not let anyone below the height of 59 inches (150 cm) operate the vehicle.

WARNING

ALWAYS wear eye protection.
Remove all jewelry before you service the vehicle.
Do not allow loose clothing or hair to contact the moving parts.
Do not touch the hot objects.

 WARNING

When you leave the vehicle, turn the key to the OFF position and remove the key from the vehicle.

Drive the vehicle only as fast as terrain and conditions allow. Consider the terrain and traffic conditions. Consider environmental conditions that change the terrain and your ability to control the vehicle.

Do not drive fast downhill. Sudden stops or change of direction can cause a loss of control. Use the brake to control the speed of the vehicle when you drive down a slope.

When possible, stay in approved areas. Do not drive on steep slopes.

Always keep feet, legs, hands and arms inside the vehicle.

Do not drive on rough terrain.

Before you drive in the reverse direction, make sure the area behind the vehicle is clear.

Make sure the direction selector is in the correct position before you press the accelerator pedal.

Decrease speed before and during turns.

Make sure you completely stop the vehicle before you move the direction selector.

See SPECIFICATIONS for the vehicle load and seat capacity.

NOTICE

Read the following text and warnings before you service the vehicle.

Normal use, wear or abuse can cause some components on the vehicle to fail. The manufacturer cannot know all possible component failures or the methods that failures can occur.

A vehicle in need of repair does not function properly and can be dangerous.

Be careful when you service the vehicle. Be aware of your safety and the safety of other people in the area.

Some components are heavy, spring loaded, corrosive, explosive, can cause high amperage, or get hot. Do not put your hands, face, feet or body in a location that can expose them to injury if an unexpected situation occurs.

Always use the correct tools shown in the tool list and wear safety equipment.

When Operating the Vehicle Always:

- Use the vehicle in a responsible manner and keep the vehicle in safe condition for operation.
- Read and obey all warnings and operation instruction labels on the vehicle.
- Follow all safety rules in the area where the vehicle is operated.
- When there is a risk of lightening, leave the vehicle and look for a safe location to wait until the lightening has stopped.
- Drive the vehicle only as fast as terrain and conditions allow.
- Apply the brake to control speed on steep grades.
- Keep enough distance between vehicles.
- Decrease speed in wet areas.
- Be careful when you make sharp turns. or turns you are not familiar with.
- Be careful when you drive on loose terrain.
- Be careful when you operate the vehicle around people.

When Maintaining the Vehicle Always:

- Replace damaged or missing warning, caution, or information labels.
- Service the vehicle according to the periodic service schedule in this manual.
- Make sure that approved and qualified personnel do all repairs.
- Follow the manufacturer's maintenance procedures.
- Use insulated tools within the battery area to prevent sparks or battery explosion.
- Use specified replacement parts. DO NOT use replacement parts of less quality.
- Use recommended tools.
- Make sure that tools and procedures not specified by the manufacturer will not be a safety risk to personnel or operation of the vehicle.
- Use wheel chocks and support the vehicle with jack stands. NEVER get below a vehicle that is supported by a jack. Lift the vehicle according to the manufacturer's instructions.
- Make sure you service the vehicle in an area away from open flame or sparks.

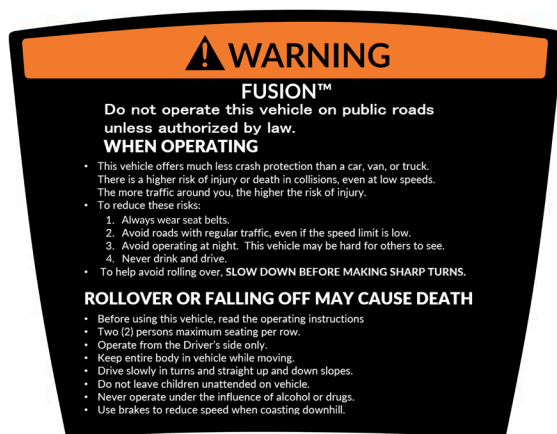
- Know that a vehicle in need of repair does not operate correctly and can be dangerous to operate.
- Test drive the vehicle after any repairs or maintenance in a safe area that is free of both vehicular and pedestrian traffic.
- Keep complete records of the maintenance history of the vehicle.

SAFETY LABELS AND LOCATIONS

Warning labels have been placed on the vehicle for your protection. Read and follow the instructions of the labels on the vehicle carefully. If any of the labels depicted in this manual differ from the labels on your vehicle, always read and follow the instructions of the labels on the vehicle.

If any label becomes illegible or comes off, contact your authorized Fusion dealer to purchase a replacement.

Located on Steering Wheel



SAFETY

Located on or near roof (inside passenger compartment)



WARNING

TO AVOID PERSONAL INJURY OR DEATH:
Always fasten your seat belt.



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Low Speed Vehicle Disclosure

This vehicle is classified as a low speed vehicle.

This vehicle:

- Has a maximum speed of greater than 20 miles per hour, but not greater than 25 miles per hour;
- May be a hazard on the roadways if it impedes traffic;
- May subject the driver to citations for impeding traffic;
- May not be equipped with such safety features as bumpers, a padded dashboard, visors, and a tamper-resistant odometer;
- May be subject to other restrictions specific to the state or local jurisdiction in which it is operated; and
- Shall not be operated on a public highway with a speed limit in excess of the maximum specified by the state or local jurisdiction in which it is operated, including:
 - NY: Shall not be operated on a public highway with a speed limit in excess of 35 miles per hour.
 - MD and IL: Shall not be operated on a public highway with a speed limit in excess of 30 miles per hour.



7179991

LSV only



WARNING

- Only carry passengers with rear facing seat installed.
- Never carry passengers on rear platform.
- Passengers can be thrown off. This can cause serious injury or death.

WARNING

- Standard passenger limit of 2 passengers no more than 300 lbs
- Cargo limit no more than 100 lbs

IMPORTANT

FUSION™ Cart

This vehicle is not designed, manufactured or intended for on-road use. Do not operate on public roads or streets unless expressly authorized by law.

PTV only



On Battery (under the seat)

 1. When charging it's a must to use a lithium battery charger provided by the specified manufacturer. It is prohibited to use lead-acid or other chargers. 1	WARNING 2. When using the lithium battery for the first time or resuming use after a long time, the battery must be fully charged before use. 2	 3. When the battery power is 15-20% avoid keeping using it. It should get charged within 24 hours. 3
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1



1. When charging it's a must to use a lithium battery charger provided by the specified manufacturer. It is prohibited to use lead-acid or other chargers.
2. When using the lithium battery for the first time or resuming use after a long time, the battery must be fully charged before use.
3. When the battery power is 15-20% charging is required. After it is fully charged, the charger should be disconnected.
4. When the battery power is lower than 10% avoid keeping using it. It should get charged within 24 hours.



2

WARNING

5. It is prohibited to short-circuit the positive and negative poles of lithium batteries.
6. It is prohibited to knock, throw, or step on lithium batteries.
7. It is prohibited to use nails or other sharp objects to directly pierce lithium batteries.
8. It is prohibited to place lithium batteries in high-temperature environments, such as near fire, heaters, or directly in the sun.
9. It is prohibited to put lithium batteries in water, alkaline or acidic liquids

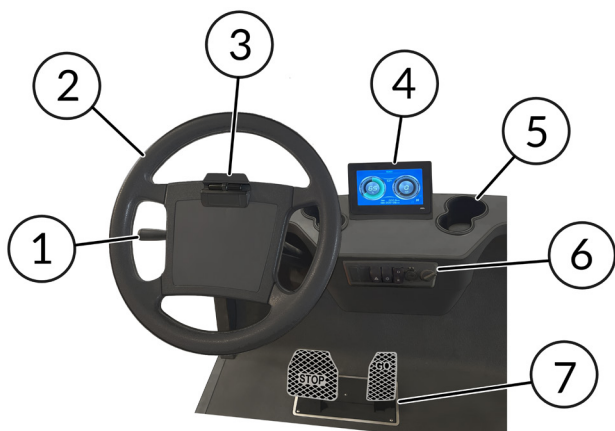
3



10. It is prohibited to wash and avoid direct rain.
11. When the lithium battery is not used for a long time, ensure that the power is stored at 70-80%, and the lithium battery must be turned off through the lithium battery power switch or the key switch (it is best to disconnect one of the battery cables) and the battery should be placed in a cool and dry environment, perform a complete charge every 2 months.
12. It is prohibited to disassemble or decompose lithium batteries without authorization. The company is not responsible for any battery damage and any losses caused and is not covered by after-sales service.

FEATURES AND CONTROLS

CONSOLE



- | | |
|----------------------|-----------|
| 1. Turn Signal Lever | (page 15) |
| 2. Steering Wheel | (page 15) |
| 3. Card Clip | (page 15) |
| 4. Instrument Panel | (page 20) |
| 5. Cup Holders | (page 15) |
| 6. Control Panel | (page 16) |
| 7. Pedals | (page 18) |

TURN SIGNAL LEVER

The turn signal lever controls the operation of the turn signal indicators, the headlight high / low beams, and the horn.



POSITION	DESCRIPTION
1	Move the lever upward to signal a right turn.
2	Move the lever downward to signal a left turn.
3	Temporarily push the lever away from the driver's seat to toggle between low and high beam headlight operation.
NS	Push the lever inwards towards the steering column to activate the horn.

STEERING WHEEL

Rotate the wheel in the desired direction to turn the vehicle.

CARD CLIP

Located on the steering wheel. Used to hold a score card or other small papers.

CUP HOLDERS

Can be used to hold your favorite tasty beverage.

CONTROL PANEL



- | | |
|------------------------------|-----------|
| 1. Hazard Switch | (page 16) |
| 2. Direction Switch | (page 17) |
| 3. Ignition Switch | (page 18) |
| 4. Optional Switch Locations | (page 17) |
| 5. Headlight Switch | (page 17) |
| 6. USB Port | (page 18) |

Hazard Switch



The Hazard Switch activates the hazard lights. All four turn signal lights will flash at 1 hz.

Direction Switch



The Direction Switch selects the direction of vehicle movement. Position **D** selects forward. Position **R** selects reverse. Center is neutral.

⚠ WARNING

To prevent loss of control, do not move the direction selector while the vehicle is in motion. If you move the selector while the vehicle is in motion the vehicle speed will immediately decrease and a warning device activates.

⚠ CAUTION

To decrease the risk of component damage, stop the vehicle before you move the key switch or the direction selector.

Headlight Switch



The Headlight Switch controls the headlight operation. See *Turn Signal Lever* for details regarding switching between high and low headlight beams.

Windshield Washer Spray Switch*



The Windshield Washer Spray Switch activates the optional windshield washer. To activate, press and hold the switch. To deactivate, release the switch.

*Optional - not found on all models.

FEATURES AND CONTROLS

Ignition Switch



The Ignition Switch controls the drive and electrical systems. It has two positions; **ON** - Allows vehicle operations, **OFF** - Electrical power is not available for the drive and electrical system*.

*Battery charging, horn, and hazard remain functional with the switch in the OFF position.

NOTICE

If the vehicle has accessories that were installed at the factory, some accessories continue to operate with the key switch in the OFF position.

USB Port

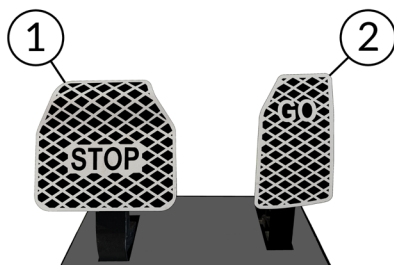


The USB port supplies electricity to power and charge portable devices. Do not leave devices connected when the vehicle is not in use to prevent battery discharge.

NOTICE

Do not connect devices requiring power exceeding 10.5 watts to the USB port. Damage to the vehicle electrical system may occur or an accessory fuse may blow.

PEDALS



1. Brake Pedal
2. Accelerator Pedal

Brake Pedal



The Brake Pedal is located on the vehicle floor at the driver's feet. Push the pedal towards the floor to slow or stop the vehicle. Apply the brake pedal before turning the vehicle on.

WARNING

Constant brake use (riding the brakes) can cause the brake system to overheat and fail, which could lead to an accident resulting in serious injury or death. Do not drive with your foot resting or riding on the brake pedal.

Accelerator Pedal

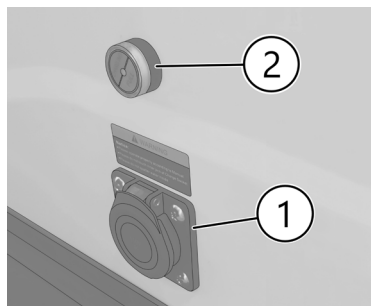


The accelerator pedal is located on the vehicle floor at the driver's feet. To begin moving or to increase vehicle speed, gradually push the accelerator pedal toward the floor. Holding the accelerator pedal down continuously will accelerate the vehicle to the maximum speed.

The accelerator pedal will only function with the key on and a direction selected.

To slow the vehicle, release the accelerator pedal and apply the brake. The electric motor provides additional brake force when the brake pedal is applied.

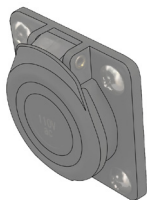
CHARGER RECEPTACLE AND STATUS LIGHT



- 1. CHARGE RECEPTACLE**
- 2. STATUS LED**

FEATURES AND CONTROLS

Charge Receptacle



The Charge Receptacle is located on the front side of the battery compartment (rearmost forward facing seat). See Charging page 34 for full details.

Status LED

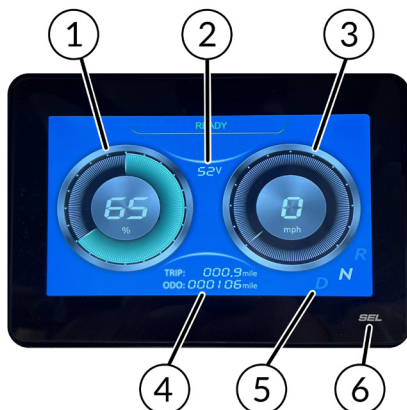


The Status LED is located above the charge port. See Charging page 34 for full details.

NOTICE

Use of incorrect charge cords can damage the charge receptacle. Always use SAE J1772 approved charge stations and connectors.

INSTRUMENT PANEL



1. State of charge
2. Pack voltage
3. Current speed
4. Trip / Odometer
5. Drive selected
6. Select button

State of Charge (SOC)

This displays the current level of charge in the battery pack. It is displayed both as a percentage and as a circular graph.

Pack Voltage

This displays the current pack voltage.

Current Speed

Current vehicle speed. It is displayed in **Miles Per Hour**. To select **Kilometers Per Hour**, press the Select Button temporarily.

Trip / Odometer

ODO displays the total distance the vehicle has traveled. **TRIP** displays the distance traveled since the trip meter was last reset. To reset the Trip distance, press and hold the Select Button.

Drive Selected

This displays the current drive mode selected as a highlighted letter. Unselected modes will be partially transparent. **D** indicates that **Forward** is selected. **R** indicates that **Reverse** is selected. **N** indicates that **Neutral** is selected.

Select Button

A multifunction touch screen button. Press once temporarily to switch units of measurement between miles and kilometers. Press and hold to reset the Trip Meter.

SEAT BELTS

Seat Belts

Riding in this vehicle without wearing the seat belt increases the risk of serious injury in the event of an accident or sudden stop. Occupants must always wear seat belts. Always make sure the seat belts are secured for operator and all passengers before operating.

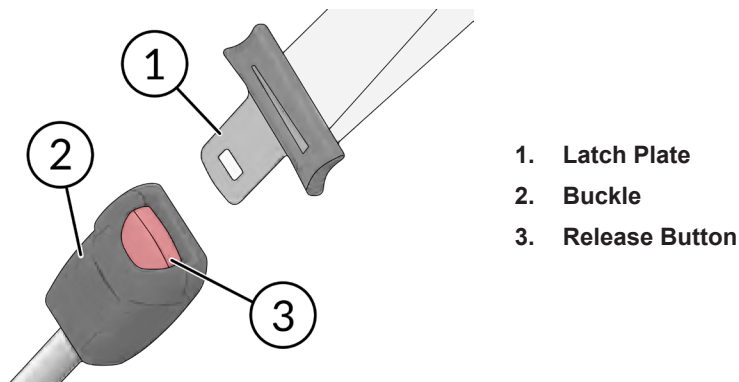
WARNING

ALWAYS wear your seat belt. Ensure the seat belts are secured for the operator and all passengers before operating. Failure to do so could result in the risk of serious injury or death.

FEATURES AND CONTROLS

Proper Seat Belt Use

This vehicle is equipped with three-point lap and diagonal seat belts for all occupants. Always make sure the seat belts are secured for operator and all passengers before operating.



To wear the seat belt properly, follow this procedure:

1. Pull the seat belt latch plate ① downward and across your chest toward the buckle ② at the inner edge of the seat.
2. Slide the latch plate ① up the webbing as far as needed for the belt to reach across your hips. The belt should fit snugly across your hips and diagonally across your chest. Make sure the belt is not twisted.
3. Push the latch plate ① into the buckle ② until it clicks.
4. Release the strap, it will self-tighten.
5. To remove the slack in the lap portion of the belt, pull upward on the shoulder belt. To loosen the lap belt if it is too tight, tilt the buckle and pull up on the lap belt slightly longer.
6. To release the seat belt, press the square red button ③ in the buckle's center. If necessary, slide the buckle ② down the webbing to allow it to retract fully.

Seat Belt Inspection

Inspect all seat belts for proper operation before each use of the vehicle.

1. Push the latch plate into the buckle until it clicks. The latch plate must slide smoothly into the buckle. A click indicates it is securely latched.
2. Push the red release latch in the middle of the buckle to make sure it releases freely.

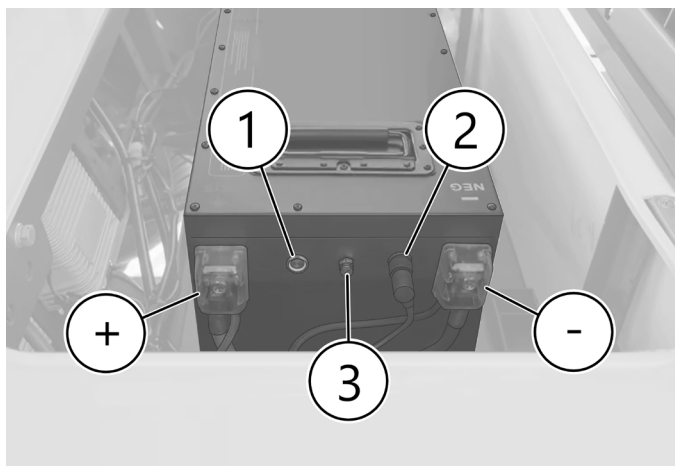
3. Pull each seat belt completely out and inspect the full length for any damage, including cuts, wear, fraying or stiffness. If any damage is found, or if the seat belt does not operate properly, have the seat belt system checked and/or replaced by a Fusion authorized service dealer.
4. To clean dirt or debris from the seat belts, sponge the straps with mild soap and water. Do not use bleach, dye or household detergents.

BATTERY COMPARTMENT

The battery compartment is located under the front seat on the Passenger 2+2, Utility Short Bed, and Utility Long Bed models. It is located on the rearmost forward facing seat on the Passenger 4+2, Passenger 6+2, and Utility 4 models.

BATTERY

Your vehicle is equipped with a Lithium Battery. This battery supplies the power needed to operate your vehicle.



1. **Power Button**
 2. **Communication Cable**
 3. **Battery Vent**
- +** **Positive Battery Terminal**
- **Negative Battery Terminal**

FEATURES AND CONTROLS

Battery Performance Tips

- Battery should be fully charged before the first use.
- Only operate the vehicle in the allowed temperature range.
- Recharge the battery daily, or after each use of the vehicle.
- Always maintain a full charge on the battery. For best battery life, avoid discharging the battery more than 80%.
- Battery should be charged at room temperature. See Charging page 34.
- Range may be affected by road conditions, terrain, temperature, and driving habits.

BATTERY OPERATING TEMPERATURE	
Minimum	32°F (0°C)
Maximum	113°F (45°C)

Power Button

The power button is located on the terminal side of the battery. It has a built in indicator LED

To power the battery on, press the button. The LED indicator will light up.

To power the battery off, press the power button. The LED indicator will turn off.

Storage

For prolonged (more than one month) storage, the battery should be fully charged and turned off.

Sleep Mode

The battery will automatically enter low power sleep mode after two days of no activity.

In sleep mode, key switch activation or vehicle charging will wake the battery and switch to normal operation.

ON-BOARD CHARGER

The on-board battery charger is located in the battery compartment on passenger models and under the utility bed on utility models.

The state of charge of the battery is displayed on the instrument panel.

See Charging page 34.

UTILITY DUMP BED

Hydraulic Cargo Dump Switch*



The Hydraulic Cargo Dump Switch operates the cargo bed tipping feature. The switch is located on the Control Panel. The UP arrow raises the bed. The DOWN arrow lowers the bed, release the switch when the cargo bed is fully lowered.

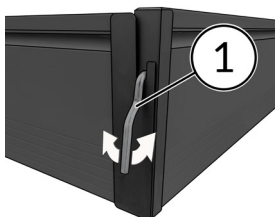
*Only on select models.

WARNING

To avoid serious injury or death:

- Do not allow others to stand near the operating area or in an area where an upset load might fall.
- Do not leave the raised cargo bed unattended.
- Do not raise the cargo bed if the vehicle is on uneven ground.
- Never get under a raised cargo bed.

Cargo Bed Door Latches

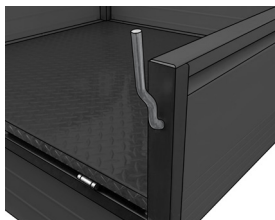


Open the cargo bed door as follows:

1. Rotate both handles ① to the up position.
2. Open the cargo bed door

Close the cargo bed door as follows:

1. Close the door of the cargo bed.
2. Rotate both handles ① to the down position.



FEATURES AND CONTROLS

REAR FLIP SEAT

WARNING

Read and follow all of the guidelines listed below. Failure to follow these guidelines may result in severe bodily injury and/or property damage.

- Secure the loads on the platform to prevent movement.
- Put the load on the platform as far forward as possible.
- The center of gravity of the load must be less than 4 inches (10 cm) above the platform.
- Do not put more than the specified capacity on the platform.
- Increased loads can change the drive properties of the vehicle.
- Do not allow passengers to ride on the cargo platform.

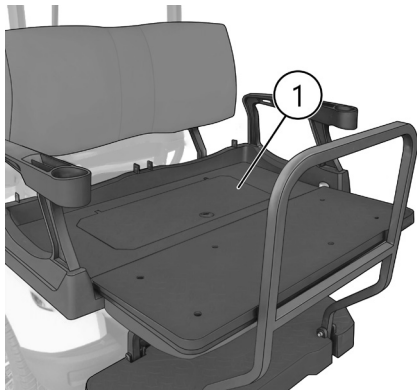
CAUTION

To prevent damage to the rear seat, move any accessories that are installed on the hand rail when you fold the seat.

NOTICE

Increased loads can change the handling properties of the vehicle.

The optional rear flip seat offers seating for two additional passengers or can be flipped open to provide a horizontal bed for transporting cargo or equipment. It also contains a storage bin. To open into a platform or to access the storage bin door ①, simply lift the rear of the seat base and fold forward.



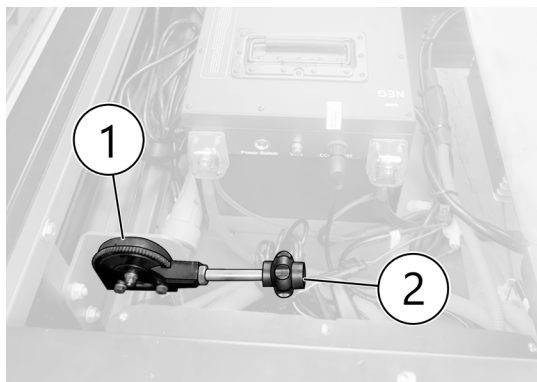
To close, fold the seat base to its original position. When you put cargo on the platform, make sure you follow the information below to decrease the risk of injury, damage to the vehicle or cause the vehicle to tilt.

- Put the load on the platform as far forward as possible.
- Secure the loads on the platform to prevent movement.
- The center of gravity of the load must be less than 4 inches (10 cm) above the platform.
- The load capacity of the cargo platform is a maximum of 250 lbs. (115 kg). Do not put more than the specified capacity on the platform.

PARKING BRAKE DISABLE LEVER

The electronic parking brake is released when the vehicle is on with a direction selected and the accelerator pushed. The parking brake can be disabled manually to allow the vehicle to be moved when it is powered down.

The release lever ① is located in the battery compartment, under the rearmost forward facing seat.



To manually disable parking brake:

Press and hold the release button ② while pulling the lever ① upwards until firm tension is felt. Release the button while holding tension on the lever. The parking brake is now released.

To re-enable parking brake:

Place tension on the lever by pulling upwards. While holding tension, press the release button. Carefully lower the handle to its horizontal resting position. The parking brake should now be re-enabled. Attempt to move the cart to verify parking brake function.

OPERATION SAFETY GUIDELINES

GENERAL WARNINGS

Read the following warnings before attempting to operate the vehicle:

WARNING

Read and follow all of the guidelines listed below. Failure to follow these guidelines may result in severe bodily injury and/or property damage from loss of vehicle control.

- When driving vehicle, understand the terrain, traffic conditions and the environmental conditions which change the terrain and the ability to control the vehicle. When possible, stay in approved areas and do not drive on steep slopes.
- Speed in reverse must be limited to a maximum of 10 mph (16 kph).
- Keep a safe speed when driving down hill. Use the brake to control speed when traveling down a slope. A sudden stop or change of direction can cause loss of control.
- Decrease speed before and during turns. Never drive the vehicle up, down, or across a slope that is more than the prescribed driving gradient of the vehicle.
- See VEHICLE SPECIFICATION for the vehicle load and seat capacity.

WARNING

Read all instructions and warnings before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

 WARNING

Read and follow all of the guidelines listed below. Failure to follow these guidelines may result in severe bodily injury and/or property damage from improper vehicle operation.

- Pressing accelerator pedal can cause accidental vehicle movement. Turn the key to the OFF position when the vehicle is parked. When you leave the vehicle, turn the key to the OFF position and remove from the switch to prevent accidental operation.
- To prevent accidental movement when the vehicle is to be left without an operator, turn the key to the OFF position and remove the key.
- Do not take the vehicle out of gear while in motion (move without power).
- Check the area behind the vehicle before you operate in the reverse direction.
- All persons must be seated. Keep entire body inside vehicle and hold on while vehicle is in motion.
- Incorrect and irresponsible operation of this vehicle can cause dangerous conditions for the operator, passengers and other people in the area. Do not allow children or anyone without a license to operate the vehicle. Children may not have the skill and ability to make good decisions or strength to operate the vehicle.
- Drugs and alcohol decrease the ability of the driver to operate the vehicle safely. Always check with a medical professional before you operate the vehicle.
- When you drive the vehicle at full speed on a dirt road, loose surface or wet grass, the necessary distance to stop the vehicle will increase. The necessary distance to stop a loaded vehicle is more than the necessary distance to stop a vehicle without a load. In wet weather conditions, apply light pressure to the brakes to supply enough friction to dry the brake unit. Wet brakes lose much of their effect.
- If you drive on a steep hill and cannot get enough traction, do not try to turn around on the hill. Slowly drive in reverse and use the brake to control the speed.

GENERAL OPERATION INSTRUCTIONS

Read and ALWAYS follow all of the guidelines listed below as follows:

- Use the vehicle in a responsible manner and keep the vehicle in safe condition for operation.
- Read and obey all warnings and operation instruction labels on the vehicle.
- Follow all safety rules in the area where the vehicle is operated.
- When there is a risk of lightning, leave the vehicle and look for a safe location to wait until the lightning has stopped.
- Drive the vehicle only as fast as terrain and conditions allow.
- Apply the brake to control speed on steep grades.
- Keep enough distance between vehicles.
- Decrease speed in wet areas.
- Be careful when you make sharp turns, or turns you are not familiar with.
- Be careful when you drive on loose terrain.
- Be careful when you operate the vehicle around people.

STARTING PROCEDURE

WARNING

Read all instructions and warnings before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers. See Operation Safety Guidelines page 28

NOTICE

When the direction selector is in the reverse position, a warning signal will sound to indicate that the vehicle is ready to run in reverse.

NOTICE

All vehicles have an interlock system that disables the controller and prevents operation or tow of the vehicle while the charger is connected. Remove the charger plug from the receptacle and correctly store the cable before you move the vehicle.

Starting of the vehicle as follows:

1. Make sure all occupants are properly seated and prepared for vehicle movement.
2. Place the Direction Switch in the center NEUTRAL position.
3. Put the key in the key switch and turn to the ON position.
4. Apply the brake pedal.
5. Select a direction of travel.
6. Release the brake pedal and slowly press the accelerator pedal to start driving.
7. When the accelerator pedal is pressed, the parking brake will release and the vehicle will begin moving.
8. When the accelerator pedal is released, the motor decreases the speed of the vehicle. To stop the vehicle more quickly, press the brake pedal.

DRIVING THE VEHICLE

DIRECTION SWITCH OPERATION

WARNING

To prevent loss of control, do not move the direction selector while the vehicle is in motion. If you move the selector while the vehicle is in motion the vehicle speed will immediately decrease and a warning device activates.

- The direction of travel is selected with the Direction Switch.
- The direction of travel must be selected before pressing the accelerator pedal.
- Move the direction switch to **D** to move in a forward direction.
- Move the direction switch to **R** to move in a reverse direction. A reverse warning buzzer activates when the direction switch is moved to the **R** position.
- The position between **D** and **R** is **Neutral**.

OPERATION

ACCELERATOR AND BRAKE PEDAL OPERATION

With the direction switch in the forward or reverse position, press the accelerator pedal, which starts the motor and the vehicle moves in the direction indicated on the instrument panel/direction selector. This vehicle is equipped with motor brake.

When the accelerator pedal is released, the motor will decrease the speed of the vehicle. To stop the vehicle more quickly, press the brake pedal.

REGENERATIVE BRAKING

WARNING

To prevent the possibility of loss of control that could cause serious injury or death, use the brake pedal to reduce speed.

This vehicle is equipped with a regenerative motor control system.

Regenerative braking activates if both of the following events occur:

- The vehicle is being driven down a slope.
- The driver attempts to exceed the specified top speed with the accelerator pedal pressed or released.

The regenerative braking will limit the speed of the vehicle to the specified top speed. When the regenerative braking system is activated by this sequence of events, the motor generates power that is returned to the batteries. When the vehicle speed is reduced below the maximum by using the brake, the speed will not increase unless the throttle is increased. When the brake pedal is released the vehicle will slow down as it does with pedal up braking.

PEDAL-UP BRAKING

Pedal-up braking is regenerative braking that occurs when the accelerator pedal is released while the vehicle is moving.

Pedal-up braking activates if both of the following events occur:

- The vehicle is being driven down a slope.
- The accelerator pedal is released.

The pedal-up braking will slow the vehicle until the vehicle stops, or the accelerator is applied. When pedal-up braking system is activated by this sequence of events, the motor generates power that is returned to the batteries.

HIGH PEDAL DISABLE FEATURE

High pedal disable prevents acceleration if the key is turned on while the accelerator or brake are pressed. To reset the controller after a High Pedal

Disable, place both feet on the floor, turn the key to the OFF position. With both feet on the floor turn the key to the ON position.

STARTING VEHICLE ON A HILL

The parking brake will activate automatically when the vehicle stops. To start the vehicle on a hill press the accelerator pedal and the parking brake will be released.

COASTING

Uncontrolled coasting does not occur with this model. See Pedal-Up Braking and Regenerative Braking for more details. However, this is not a substitute for the brake which must be used to quickly decrease the speed of the vehicle.

BATTERY

INTRODUCTION

This vehicle is equipped with a Lithium battery. This battery is maintenance free.

Certain procedures and precautions must be observed with the Lithium battery:

- When charging only use the charger provided by the manufacturer. It is prohibited to use lead-acid or other chargers.
- When using the battery for the first time after a long storage period, the battery must be fully charged prior to use.
- When the battery state of charge is below 15-20%, charging is required.
- Avoid discharging the battery to below 10% state of charge. If this occurs, avoid using the battery and charge within 24 hours.
- Do not short-circuit the positive and negative battery terminals.
- Do not knock, throw, puncture, or damage the battery in any way.
- Do not place the battery in high-temperature environments, such as near fire, heaters, or directly in the sun.
- Do not immerse the battery in water, alkaline, or acidic liquids.
- Do not wash the battery and avoid contact with direct rain.
- Prior to extended storage: fully charge the battery, ensure the ignition is turned off (it is best to disconnect one of the battery cables), store in a cool and dry environment, and perform a complete charge every two (2) months.

OPERATION

CHARGING

⚠ WARNING

Using a non-recommended charge cord could result in fire, heat damage, or charger failure, which could result in serious injury or death. Always use the recommended type of cord to charge the batteries.

⚠ WARNING

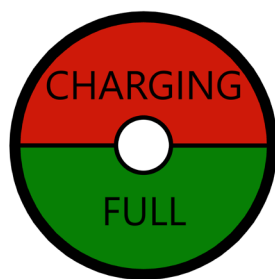
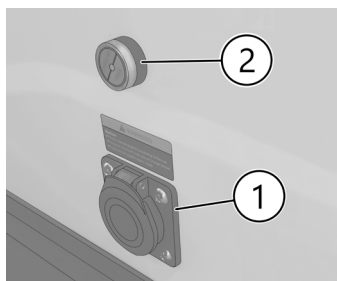
Charging from a circuit of lesser capacity and/or using a cord from the outlet to the vehicle that is not sufficient in wire gauge could create a fire hazard.

NOTICE

Use of a Ground Fault Interrupt (GFI) AC receptacle is recommended.

Always follow these precautions when charging:

- Position the vehicle on a level surface.
- Make sure the key is off.
- Always use the recommended charge cord type.
- Inspect the charge cord for cracks, loose connections, and frayed wiring prior to use. NEVER use a damaged charge cord.
- Ensure the ambient temperature is between -4°F and 140°F (-20°C – 60°C).



Your vehicle is equipped with an onboard charger. The battery charge receptacle ① is located on the battery compartment on the driver's side of the vehicle.

To Charge:

1. Open the charge port receptacle cover and inspect for dirt, debris, or signs of corrosion.
2. To begin charging, align and insert the charge station connector to the receptacle until it latches.
3. Charging will begin.
4. To remove the connector after the charge cycle is complete, press the release button and pull the connector out.
5. Ensure the charge port receptacle cover is fully closed.

Charge Light

A charge indicator light ② is located above the charge port. It indicates charging status as well as charging errors. See the chart below:

LED	DEFINITION
Solid Green	Fully charged
Flashing Red	Charging
Green and Red flashing	Undervoltage fault
Red, Green, Red	Overvoltage fault
Red, Green, Red, Green	Ambient temp out of range
Green, Red	Charger overheating
Red, Green	Output under voltage
Red, Green, Red, Green, Red	AC voltage fault
Green, Red, Green	Fault active over five (5) times

BATTERY, PROLONGED STORAGE

For prolonged (more than one month) storage, the battery should be stored in a fully charged and turned off state. This will ensure a low self discharge rate and allow storage for up to a year.

- After 2 days, the battery pack will automatically enter the low power sleep mode.
- In sleep mode, when there is a charger signal or a key signal, the system will switch to normal working mode.
- Be ware of and isolate any electronic devices that may consume power even when the key switch is turned off, such as DCDC converters, stereo sound, lighting, etc.

OPERATION

BATTERY RECYCLING

Lithium-ion batteries should not be placed in household garbage or recycling bins. In addition, they should not be mixed with lead-acid batteries to be recycled. Lithium batteries entering lead-acid recycling facilities can have disastrous consequences, causing significant damage and injury. Lithium-ion batteries should be sent to separate recycling points or household hazardous waste collection points.

Dispose in accordance with local, state and federal regulations. Contact local or state environmental officials for the disposal information.

DUMPING THE UTILITY BED

Follow the steps below to dump the utility bed:

1. Park the vehicle on a level surface.
2. Ensure that the cargo is either distributed evenly or more towards the front of the utility bed.
3. Open the tailgate.
4. Use the Hydraulic Cargo Dump Switch to elevate the dump bed and dump the cargo.
5. Use the Hydraulic Cargo Dump Switch to lower the dump bed.
6. Close the tailgate and ensure it is securely latched.

WARNING

NEVER operate a vehicle with the utility bed in the dump position.

WARNING

ALWAYS ensure the cargo in the utility bed is evenly distributed. Failure to ensure the cargo is distributed could result in unwanted dump operation.

HAULING CARGO

Your vehicle has been designed to carry or tow specific capacities. Handling and braking will be affected when hauling loads. Drive accordingly. If planning on operating in rough or hilly terrain, reduce cargo size and vehicle speed.

 WARNING

Hauling or towing cargo can alter the vehicle handling and braking. **REDUCE SPEED AND EXERCISE CAUTION WHEN HAULING OR TOWING.**

- ALWAYS distribute loads evenly while ensuring cargo box load is as far forward as possible.
- ALWAYS ensure loads are properly secured
- NEVER exceed the weight capacity of the vehicle.
- Allow for increased braking distance.

 WARNING

NEVER CARRY FUEL OR OTHER FLAMMABLE LIQUIDS ON THIS VEHICLE

TOWING LOADS

Your vehicle has been designed to carry or tow specific capacities. always read and understand the load distribution warnings listed on the warning labels.

The total load (operator, passenger, accessories, cargo and weight on hitch) must not exceed the maximum weight capacity of the vehicle.

Always follow these precautions when towing:

1. Never load more than 150 lb (68 kg) tongue weight on the towing bracket.
2. Slow down when towing. Towing a trailer increases braking distance.
3. Do not tow more than the recommended weight for the vehicle.
4. Attach a trailer to the trailer hitch bracket only. Do not attach a trailer to any other location on the vehicle.

TOWING THE VEHICLE

 CAUTION

Before towing the vehicle, please release the brake to avoid towing make the brake system, motor and the controller broken. For further details, refer to the Parking Brake Disable Lever (page 26).

 CAUTION

Towing the vehicle above the recommended speed may result in severe injury and/or damage to the vehicle and other property.

OPERATION

WARNING

Before towing the vehicle, follow the below instructions otherwise these may result in severe injury and/or damage to the vehicle and other property:

- Use extra caution when towing a vehicle.
- DO NOT ride on the vehicle being towed.
- DO NOT try to tow the vehicle with ropes, chains or any device other than the factory approved tow bar.
- DO NOT tow the vehicle on highways.
- DO NOT tow a single vehicle at speeds in excess of 12 mph (19 kph).
- DO NOT exceed 5 mph (8 kph) when towing multiple vehicles.
- DO NOT tow more than three vehicles at a time.

CAUTION

Tow bars are not intended for road use.

Before towing the vehicle, disable the parking brake with the parking brake disable lever.

Never use ropes or chains to tow vehicle(s). Tow bars are available from the Fustion service parts department.

Tow bars are not intended for highway use. Do not ride on a vehicle being towed. Tow bars are designed to tow only one vehicle at a maximum speed of 12 mph (19 kph) and up to three vehicles at a maximum speed of 5 mph (8 kph).

HAULING THE VEHICLE

WARNING

Make sure you secure the vehicle and all items before you transport a vehicle on a trailer. Do not allow any people on a vehicle being transported on a trailer.

Prior to transporting the vehicle on a trailer below highway speeds, check for tight hardware and cracks in sun top at the mounting points.

The rated capacity of the trailer or truck must be more than the weight of the vehicle and load plus 1000 lbs. (454 kg). Refer to Vehicle Specifications (page 56) for the weight of the vehicle.

Secure the vehicle to the trailer with ratchet tie downs.

MAINTENANCE

INTRODUCTION

WARNING

Always wear safety glasses or approved eye protection when servicing the vehicle. Wear a full-face shield and gloves when working with or around the battery and electrical connectors. Always use insulated tools when working with or near the battery. Failure to follow these instructions could result in serious injury or death.

WARNING

Read all notices, cautions, and warnings in this manual before you perform any type of service operations.

- Disconnect the negative battery cable before you service the vehicle.
- To decrease the risk of electrical arc, which can cause a battery explosion, disable all electrical loads from the battery before you remove the battery wires.
- To decrease the risk of motor damage, do not operate the vehicle at full throttle for more than 5 seconds with the drive wheels lifted off the ground.
- The drive wheels must be lifted and supported on jack stands before you do any service to the powertrain when the motor is in operation.
- Make sure you do all brake tests in a safe location with regard to the safety of all personnel.

CAUTION

To increase the life of a vehicle that is used in rough conditions, some maintenance must be done more often than recommended in the Periodic Service Schedule. For example: high or low temperatures, high dust and dirt conditions, high use with maximum load.

The vehicle owner and service technician must carefully follow the procedures recommended in this manual. The preventative maintenance, applied at recommended intervals, keeps the vehicle dependable and decreases costs for repairs, refer to Maintenance Interval (page 43).

MAINTENANCE

ROUTINE MAINTENANCE

To access the powertrain for normal maintenance, lift or remove the seat and remove the rear access panel. For major repairs, refer to the applicable Technician's Repair and Service Manual.

Some service procedures make it necessary to lift the vehicle. For correct lift procedure and safety information, refer to Vehicle Lifting Instructions (page 47).

TIRE INSPECTION

Tire inspection is as follows:

1. Inspect the tire condition according to the maintenance interval, refer to Maintenance Interval (page 43).
2. Tire inflation pressures must be checked when the tires are cool.
3. Always install the valve dust cap after you check or inflate the tires.

BRAKES

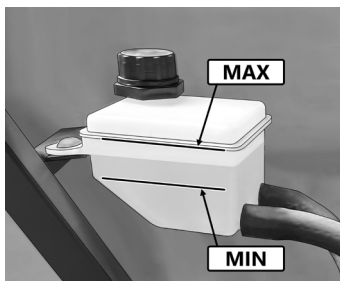
A performance test should be performed regularly as an evaluation of braking system performance. It is useful as a method of identifying subtle loss of performance over time.

WARNING

Always inspect the pedal travel before you operate a vehicle to confirm some brake function is found.

BRAKE FLUID

The brake fluid reservoir is located under the driver's seat on Passenger models and under the dump bed on Utility models. Ensure the brake fluid is set to the correct level.



BRAKE FLUID

DOT 4 BRAKE FLUID

Fluid Level Check

1. Position the vehicle on a level surface.
2. View the brake fluid level in the reservoir. The maximum level (MAX) is the reservoir seam. The minimum level (MIN) is halfway between the reservoir seam and the bottom of the reservoir. The brake fluid level should be between MIN and MAX.
3. If fluid is below the MAX level, add brake fluid as needed.

⚠ CAUTION

Brake fluid can cause damage to painted and finished surfaces

TRANSMISSION

The only transmission maintenance necessary for the first five years is the inspection of the transmission for lubricant leakage. Unless leakage is visible, the lubricant needs to be replaced after five years.

Fluid Level Check

Fluid level check is as follows:

1. Park the vehicle on a level surface and remove the key.
2. Clean the area around the check / fill plug and remove plug.
3. The correct fluid level is just below the bottom of the threaded hole.
4. If fluid is low, add as required.
5. Install the check / fill plug and torque to 59 ft-lbs (80 Nm).
6. Use a clean shop towel to wipe off any oil spilled near the check / fill plug.



TRANSMISSION FLUID

GL-5 85/W90 GEAR OIL

MAINTENANCE

DAILY INSPECTION

The following items should be inspected once every day before the vehicle is put into service:

LOCATION	DESCRIPTION
Walk-Around Inspection	External frame damage.
Walk-Around Inspection	Operation of all lights, warning alarms.
On Vehicle	Smooth and proper operation of seat belts.
Walk-Around Inspection	Inspect for leaking fluids or grease.
Walk-Around Inspection	Tire tread or sidewall damage.
On Vehicle	Smooth and proper operation of all controls such as but not limited to: • Throttle pedal • Brake pedal • Steering • Horn • Parking brake • Other controls (if any)
On Vehicle	Proper operation of all locking devices such as but not limited to: • Tool box • Removeable battery trays • Battery lid (seat frame) • Cargo box • Cab doors
On Vehicle	Proper operation of all switches such as but not limited to: • Direction switch • Key switch • Other switches (if any)

PRE-OPERATION INSPECTION

The following items should be inspected every time before the vehicle is driven:

LOCATION	DESCRIPTION
Walk-Around Inspection	Rear and side view mirror adjustments
	Tire pressure
On Vehicle	Steering operation
	Brake operation

MAINTENANCE INTERVAL

Most of these items should only be performed by a qualified technician. Details regarding the service procedures can be found in the vehicle service manual.

Any problems found during an inspection should be repaired before the vehicle is put back into service.

MAINTENANCE INTERVAL CHART SYMBOLS KEY	
SYMBOL	INTERVAL DEFINITION
A	Every Week or 20 hours
B	Every Month or 80 hours
C	Every 3 Months or 250 hours
D	Every 6 Months or 500 hours
E	Every Year or 1,000 hours

MAINTENANCE INTERVAL CHART		
ITEMS	INTERVAL	SPECIAL INTERVAL
Check tire pressure	A	
Inspect tires	A	
Check axle and wheel nuts	A	
Check brake performance	B	
Check tie rod end play	B	
Check steering pinch bolts	B	

MAINTENANCE

ITEMS	INTERVAL	SPECIAL INTERVAL
Check steering rack play and mount bolts	B	
Check battery terminal connections	B	
Inspect brake fluid	B	
Check relay function	B	
Check brake pad wear	B	
Check transmission oil	B	First after 80 hours then every 1,000 hours
Rotate tires	C	
Check steering freeplay	C	
Check / adjust wheel toe	C	
Check steering fasteners	C	
Check leaf spring u-bolts	C	
Check shock mounts	C	
Check motor mounting	C	
Lubricate other parts	D	
Check rear axle function	E	
Clean and lubricate front wheel bearings	E	
Replace brake fluid		Every two years
Replace transmission fluid		Every five years

MAINTENANCE GUIDELINES FOR SEVERE DUTY

The above maintenance schedule is based on the average typical application. If the vehicle is operated under “severe conditions”, service procedures should be conducted more frequently than specified. The frequency of service under severe conditions is determined by the use of the vehicle. The owner/operator must evaluate the operating environment to determine the increase in maintenance frequency.

In addition, the entire vehicle should be inspected monthly for signs of damage.

The following list is meant as a guide and is not all-inclusive of a “severe-duty” application.

- Operation in excess of 100 hours per month.
- Extreme temperature.
- Bumpy, dusty, or ill maintained roads.
- Excessively wet areas.
- Corrosive or contaminated areas.
- Frequent loading of the vehicle at / near capacity.

BATTERY MAINTENANCE

WARNING

High Voltage is present in the battery compartment. DO NOT touch the battery terminals during servicing of the battery as this may result in severe electric shock and/or death.

WARNING

A battery is a live electrical source. Voltage is ALWAYS present at the battery terminals, EVEN WHEN THE BATTERY IS POWERED OFF OR IN SLEEP MODE. It cannot be disconnected or neutralized. Do not drop any tool or conductive object onto the battery. A conductive object that comes in contact with the battery terminals will initiate a short circuit of the battery. This could cause the battery to explode resulting in severe bodily injury and/or property damage.

WARNING

Do not leave cables on batteries that have been removed from the vehicle. Cables left on batteries could cause a short circuit resulting in battery explosion, severe bodily injury and/or property damage.

WARNING

Be careful when you use aerosol containers near the battery terminals. Use a container with insulation to prevent an explosion.

CAUTION

To decrease the risk of damage to the electrical components while cleaning, do not use a pressure washer. This could cause the damage to the battery.

MAINTENANCE

TERMINAL PROTECTION AND INSTALLATION

During installation and handling, ensure that the terminals are covered with the included terminal protector and remove them only when preparing the cable for connection.

ACCESORIES

Never connect accessories directly to the battery.

12V accessories should use a DC-DC power converter connected to the vehicle key switch. Accessories should be installed in such a way that they do not drain the battery when not in use.

Consult your dealer when installing accessories on the vehicle.

BATTERY ENVIRONMENT

Ventilation

Lithium-ion batteries do not require ventilation during charging. In rare and adverse circumstances, lithium-ion batteries may be ventilated instantaneously to release the pressure released by the battery. If this happens, stop using (charging or discharging) the battery and contact Fusion technical support.

Environment

Batteries should always be installed or stored in a clean, cool, and dry place. Keep water, oil and dust away from the battery. If these substances build up on the battery, leakage can occur, resulting in self discharge and possible short circuits. For the same reason, relative humidity should be kept below 90%.

Temperature

Temperature plays an important role in battery use. Thermal batteries provide more capacity, but the cycle life is reduced. Refer to Battery (page 23) for the recommended operating temperature range.

Cold batteries offer less capacity and are harder to charge.

VEHICLE LIFTING INSTRUCTIONS

WARNING

Make sure the vehicle is on a hard and level surface. Never get below a vehicle that is supported by a jack only. The vehicle is may not stable during the lifting process. Make sure a vehicle that is supported on jack stands is stable before you get below the vehicle.

WARNING

Put wheel chocks in front and behind the wheels that remain on the ground. Do not allow any person in or on the vehicle being lifted.

CAUTION

When you lift the vehicle, put the jacks and jack stands at the areas indicated only.

INTRODUCTION

You must lift the front, the rear or the entire vehicle for some service and maintenance operations.

Remove payload from vehicle before lifting. No person(s) should be in or on the vehicle while lifting.

TOOLS

Use the following commercially available tools for vehicle lifting:

- Automotive grade hydraulic floor jack with the correct capacity to lift the vehicle.
- Automotive grade jackstands with the correct capacity to support the vehicle.
- Wheel chocks.

LIFTING THE VEHICLE

Lifting the rear of the vehicle

1. Turn key switch to the OFF position and remove the key.
2. Install wheel chocks in front and behind each front wheel.
3. Center the jack under the bagwell.

MAINTENANCE

4. Lift the vehicle enough to place two jack stands under the frame where the leaf spring mounting brackets are welded to the frame.
5. Lower the jack and test the stability of the vehicle on the two jack stands.

Lifting the front of the vehicle

1. Turn the key switch to the OFF position and remove the key.
2. Install wheel chocks in front and behind each rear wheel.
3. Place the jack under the center front just behind the bumper.
4. Lift the vehicle and place two jack stands under the frame where the instrument panel support is attached to the frame.
5. Lower the jack and test the stability of the vehicle on the jack stands.

Lowering the vehicle

Lower the vehicle as follows:

1. Place the jack in the appropriate location.
2. Lift the vehicle enough to remove the jack stands.
3. Carefully lower the vehicle to the ground with the jack.
4. Remove the jack.

TIRES

TIRE PRESSURE

WARNING

Do not over inflate the tires. Excess pressure can cause the tire to separate from the wheel or explode.

NOTICE

Tire plug tools and plugs are available at automotive outlets. The tires do not have to be removed from the wheel to install the tire plugs.

Maintaining the correct tire pressure is important to the safe operation of the vehicle as well as ensuring long tread life.

Use caution when you inflate the tires. Because of the low volume of the small tires, over inflation can occur in seconds.

The general recommended tire inflation pressure is 18-22 psi, but know that tire inflation pressure can change according to the condition of the terrain.

For hard surfaces or pavement, tire inflation pressure must be in the higher allowed range, but not more than recommended on the tire sidewall.

For outdoor applications with primary use on areas with grass, consider the following:

- Slightly higher tire inflation pressure is suitable on hard turf.
- A lower pressure decreases the risk of tires cutting into soft turf.

Under inflated tires could result in:

- Excessive tire side wall flexing that can result in sudden tire failure.
- Excessive tread wear resulting in shortened tire life.

Over inflated tires could result in:

- Tire explosion due to excessive pressure.
- Reduced road surface traction.
- Increase vibration from road surface.
- Premature tire wear.

Only check the tire pressure when the tire is cold. When checking tire pressure, you must check all tires including your spare tire.

All four tires must have the same pressure for best control qualities. Always install the valve stem cap after you check or inflate the tires.

The vehicle has low-pressure tubeless tires, installed on one-piece rims.

Use a tire plug to repair small holes in the tread part of the tire. For large holes and cuts, replace the tire.

If the tire is flat, remove the wheel and inflate the tire to the recommended maximum pressure for the tire. Submerge the tire in water to find the leak and mark with chalk. Install the tire plug according to manufacturer's instructions.

REPLACEMENT OF WHEEL ASSEMBLY

WARNING

Tire replacement should only be performed by a qualified technician trained in tire replacement. Improper tools or procedures can result in explosion of the tire/wheel assembly causing severe bodily injury or death.

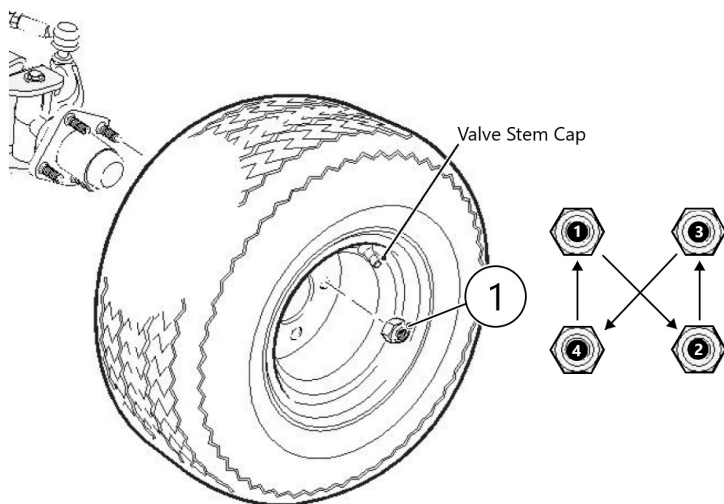
CAUTION

To decrease the risk of component damage, do not tighten lug nuts to more than 85 ft. lbs. (115 Nm) torque.

MAINTENANCE

NOTICE

Always follow the cross-sequence pattern when you install the lug nuts to make sure the wheel is evenly seated against the hub.



Note: Tire style may vary

1. Park the vehicle on a hard level surface.
2. Make sure the key switch is in the OFF position, then remove the key.
3. Block the wheels on the opposite side of the tire to be changed.
4. Slightly loosen the wheel nuts.
5. Raise the tire to be changed off of the ground and support with a jack stand.
6. Remove the wheel nuts and tire/wheel assembly.
7. With the valve stem to the outside of the wheel, install the wheel on the hub with lug nuts.
8. Tighten the lug nuts (1) with your fingers in the cross-sequence pattern shown.
9. Torque the wheel nuts as shown in above figure to in between 50 to 85 ft-lbs (70 to 115 Nm) in 20 ft-lbs (27 Nm) increments.
10. Continue to follow the cross-sequence pattern until the correct torque is reached.

11. Check for proper tire inflation.
12. Lower the vehicle to the ground and remove the blocks from the wheels.

CLEANING

INTERNAL CLEANING

WARNING

To decrease the risk of severe injury read and understand all instructions supplied by the manufacturer of the pressure washer before use.

CAUTION

When you clean the outside of the vehicle with a pressure washer, do not use more than 700-psi pressure. Keep a minimum distance of 12 inches from the spray nozzle to the painted surface. Do not clean the plastic parts with abrasive solvents.

Seats / Soft Doors

Consumable: Automotive vinyl cleaner

Clean your seats with any standard automotive vinyl cleaner.

Interior

CAUTION

DO NOT spray the interior with water. Large amounts of water may damage the electronics in the dash.

Consumable: Mild liquid detergent

Use a mild liquid detergent in warm water to wipe down the interior of the vehicle.

Cleaning Seat Belts

Consumable: Mild soap solution

Clean the safety belts with any mild soap solution that is recommended for cleaning upholstery or carpets.

Do not bleach or dye the belt webbing because this may weaken it.

MAINTENANCE

Battery Charger

WARNING

DO NOT spray vented chargers with water. Forcing water into the charger may result in damage to internal components and increase risk of electric shock causing severe personal injury or death.

The battery charger gets hot during normal operation and it is important that the cooling fins or vents are not caked with mud or dirt.

Allow the charger to dry before starting a charging cycle.

EXTERNAL CLEANING

WARNING

To decrease the risk of severe injury read and understand all instructions supplied by the manufacturer of the pressure washer before use.

CAUTION

When you clean the outside of the vehicle with a pressure washer, do not use more than 700-psi pressure. Keep a minimum distance of 12 inches from the spray nozzle to the painted surface. Do not clean the plastic parts with abrasive solvents.

Glass

NOTICE

Use of abrasive cleaners can scratch or damage glass.

The front, rear, and hard door windows are made of standard automotive glass and can be cleaned with any standard household glass cleaner.

Use a soft cloth and glass cleaner only.

Plastic Windows

Consumable: Isopropyl alcohol solution, soft cloth

The soft door windows are made of clear plastic that is easily scratched and can be damaged by some cleaners or solvents.

- Do not use any abrasives or abrasive cleaners.
 - Do not use any chemical cleaners or solvents.
1. Use a 70% isopropyl alcohol solution and soft cloth to remove any road tar or grease from plastic windows.

2. Wash plastic windows with water and dry with a soft cloth.

Exterior Body

CAUTION

DO NOT use an automated car wash facility of any type. This vehicle is not designed to fit in any automated car wash and it is likely that the vehicle will be damaged.

Consumable: Automotive exterior car wash solution, Automotive wax

The best way to preserve painted surface finish is to keep it clean by washing it often. Frequent and regular washing will lengthen the life of the vehicle's painted finish.

Wash the vehicle often with warm or cold water to remove dirt and preserve the original luster of the paint.

- Use any standard automotive exterior car wash solution.
- Do not use any abrasive cloths or cleaners.
- Finish with a quality automotive wax to preserve the finish of your vehicle.
- Never wash the vehicle in the direct rays of the sun or when the sheet metal is hot to the touch as this may cause streaks in the finish.
- Do not use hot water, strong soaps or detergents.
- Never wipe dirt off a dry surface as the dirt will scratch the paint.
- Thoroughly wash the vehicle before using any wax or polish.
- Use a high quality paste automotive wax and follow the wax manufacturer's instructions to help prevent paint from fading.

NOTICE

DO NOT apply wax to matte finish surfaces.

Under Carriage

Materials used as fertilizers or for dust control can collect on the bottom of the vehicle. These materials will cause corrosion of components, unless cleaned with water. Clean areas where mud or dirt can collect. Loosen the sediment that is packed in closed areas to help with removal.

Be careful not to damage the paint.

MAINTENANCE

TROUBLESHOOTING

Vehicle maintenance, inspection, and repairs should be performed by a qualified technician.

FAILURE	POSSIBLE REASON	SOLUTION
The vehicle cannot be driven.	Operation procedure error	Please see the operation guide for correct operation.
	Terminal oxidation (corrosion)	Clean terminals
	Low Battery	Charge vehicle
	Damaged direction switch	Inspect/replace
	Damaged accelerator	Inspect/replace
	Motor damage	Inspect/replace
	Damaged main contactor	Inspect/replace
	Loose wire harness connector	Inspect/replace
When the vehicle is climbing, it travels slowly to a stop	Vehicle may be overloaded causing the controller to overheat	Reduce the vehicle load and let the controller cool down
When the vehicle is running, release the accelerator pedal and the vehicle will not decelerate	The accelerator pedal spring is broken, causing the pedal to be unable to reset.	Turn of the key switch and then contact an authorized Fusion service center.
Turn on the key switch, the auxiliary electronic equipment of the whole vehicle does not work	Burned fuse or poor electrical contact	Replace the fuse, repair the contact
Turn on the key switch, the power meter does not display. (Display does not light up)	The plug-in of the circuit is loose	Connect plug
	Blown fuse	Replace the fuse
Does not drive straight	Tire pressure imbalance	Set correct tire pressure
	Incorrect front alignment	Adjust alignment

FAILURE	POSSIBLE REASON	SOLUTION
Difficulty steering	Insufficient tire pressure	Set correct tire pressure
	Lack of steering shaft lubrication	Lubricate
	Damage to steering king pin or ball joint	Replace
Oversteer	Damaged ball joint	Replace
	The steering gear is worn	Inspect/Replace
	Steering linkage shaft loose	Fasten
No or slow drive	Low battery	Recharge
	Damaged transmission	Inspect/Replace
	The speed control system is faulty	Contact an authorized Fusion service center
Transmission fluid leak	Damaged seals or transmission	Inspect/Replace
	Overfilled fluid	Set to correct level
Abnormal noise	Worn transmission gears or bearings	Inspect/Replace
	Worn front or rear axle bearings	Inspect/Replace
	Damaged motor bearings	Inspect/Replace
Insufficient braking force	Brake wear	Inspect/Replace brake pads

SPECIFICATIONS

SPECIFICATIONS

PASSENGER 2+2



Motor	5kW
Controller	450 Amp Programmable
Drivetrain	16:1 High Speed Rear Axle
Speed	Cart: 19 mph (30.4 km/h) LSV: 25 mph (40.2 km/h)
Battery	51.2 Lithium Pack w/ Heating Module
Charger	Onboard - 20 Amp 120V
Battery Level Indicator	Digital Touch Screen
Chassis	E-Coat and Powder Coated Steel Frame
Suspension	Heavy Duty Coil Over Shocks
Ground Clearance	5" (12.7 cm) w/ Standard Wheels and Tires
Brakes	4-Wheel Premium Hydraulic Disc Brakes
Park Brake	Electromagnetic Motor Brake
Wheels and Tires	DOT 215/35-14
Turning Radius	120" (304.8 cm)
Vehicle Capacity	4 People
Overall Dimensions	117" x 48" x 78" (297cm x 122cm x 198cm)
Curb Weight	1,036 lbs (470.0 kg)
Payload	793 lbs (359.6 kg)
Tow Capacity	2,000 lbs (907.2 kg)
Warranty	2-Year Full Cart / 5-Year Battery

PASSENGER 4+2



Motor	5kW
Controller	450 Amp Programmable
Drivetrain	16:1 High Speed Rear Axle
Speed	Cart: 19 mph (30.4 km/h) LSV: 25 mph (40.2 km/h)
Battery	51.2 Lithium Pack w/ Heating Module
Charger	Onboard - 20 Amp 120V
Battery Level Indicator	Digital Touch Screen
Chassis	E-Coat and Powder Coated Steel Frame
Suspension	Heavy Duty Coil Over Shocks
Ground Clearance	5" (12.7 cm) w/ Standard Wheels and Tires
Brakes	4-Wheel Premium Hydraulic Disc Brakes
Park Brake	Electromagnetic Motor Brake
Wheels and Tires	DOT 215/35-14
Turning Radius	
Vehicle Capacity	6 People
Overall Dimensions	145" x 48" x 78" (368cm x 122cm x 198cm)
Curb Weight	1,102 lbs (499.8 kg)
Payload	1,124 lbs (509.8 kg)
Tow Capacity	2,000 lbs (907.2 kg)
Warranty	2-Year Full Cart / 5-Year Battery

SPECIFICATIONS

PASSENGER 6+2



Motor	5kW
Controller	450 Amp Programmable
Drivetrain	16:1 High Speed Rear Axle
Speed	Cart: 19 mph (30.4 km/h) LSV: 25 mph (40.2 km/h)
Battery	51.2 Lithium Pack w/ Heating Module
Charger	Onboard - 20 Amp 120V
Battery Level Indicator	Digital Touch Screen
Chassis	E-Coat and Powder Coated Steel Frame
Suspension	Heavy Duty Coil Over Shocks
Ground Clearance	5" (12.7 cm) w/ Standard Wheels and Tires
Brakes	4-Wheel Premium Hydraulic Disc Brakes
Park Brake	Electromagnetic Motor Brake
Wheels and Tires	DOT 215/35-14
Turning Radius	
Vehicle Capacity	8 People
Overall Dimensions	169" x 48" x 78" (429cm x 122cm x 198cm)
Curb Weight	1,433 lbs (650.1 kg)
Payload	1,499 lbs (680.0 kg)
Tow Capacity	2,000 lbs (907.2 kg)
Warranty	2-Year Full Cart / 5-Year Battery

UTILITY SHORT BED



Motor	5kW
Controller	450 Amp Programmable
Drivetrain	16:1 High Speed Rear Axle
Speed	Cart: 19 mph (30.4 km/h) LSV: 25 mph (40.2 km/h)
Battery	51.2 Lithium Pack w/ Heating Module
Charger	Onboard - 20 Amp 120V
Battery Level Indicator	Digital Touch Screen
Chassis	E-Coat and Powder Coated Steel Frame
Suspension	Heavy Duty Coil Over Shocks
Ground Clearance	5" (12.7 cm) w/ Standard Wheels and Tires
Brakes	4-Wheel Premium Hydraulic Disc Brakes
Park Brake	Electromagnetic Motor Brake
Wheels and Tires	DOT 215/35-14
Turning Radius	120" (304.8 cm)
Vehicle Capacity	4 People
Overall Dimensions	117" x 48" x 78" (297cm x 122cm x 198cm)
Curb Weight	1,036 lbs (470.0 kg)
Payload	793 lbs (359.6 kg)
Tow Capacity	2,000 lbs (907.2 kg)
Warranty	2-Year Full Cart / 5-Year Battery

SPECIFICATIONS

UTILITY LONG BED



Motor	5kW
Controller	450 Amp Programmable
Drivetrain	16:1 High Speed Rear Axle
Speed	Cart: 19 mph (30.4 km/h) LSV: 25 mph (40.2 km/h)
Battery	51.2 Lithium Pack w/ Heating Module
Charger	Onboard - 20 Amp 120V
Battery Level Indicator	Digital Touch Screen
Chassis	E-Coat and Powder Coated Steel Frame
Suspension	Heavy Duty Coil Over Shocks
Ground Clearance	5" (12.7 cm) w/ Standard Wheels and Tires
Brakes	4-Wheel Premium Hydraulic Disc Brakes
Park Brake	Electromagnetic Motor Brake
Wheels and Tires	DOT 215/35-14
Turning Radius	120" (304.8 cm)
Vehicle Capacity	4 People
Overall Dimensions	117" x 48" x 78" (297cm x 122cm x 198cm)
Curb Weight	1,036 lbs (470.0 kg)
Payload	793 lbs (359.6 kg)
Tow Capacity	2,000 lbs (907.2 kg)
Warranty	2-Year Full Cart / 5-Year Battery

UTILITY 4



Motor	5kW
Controller	450 Amp Programmable
Drivetrain	16:1 High Speed Rear Axle
Speed	Cart: 19 mph (30.4 km/h) LSV: 25 mph (40.2 km/h)
Battery	51.2 Lithium Pack w/ Heating Module
Charger	Onboard - 20 Amp 120V
Battery Level Indicator	Digital Touch Screen
Chassis	E-Coat and Powder Coated Steel Frame
Suspension	Heavy Duty Coil Over Shocks
Ground Clearance	5" (12.7 cm) w/ Standard Wheels and Tires
Brakes	4-Wheel Premium Hydraulic Disc Brakes
Park Brake	Electromagnetic Motor Brake
Wheels and Tires	DOT 215/35-14
Turning Radius	120" (304.8 cm)
Vehicle Capacity	4 People
Overall Dimensions	117" x 48" x 78" (297cm x 122cm x 198cm)
Curb Weight	1,036 lbs (470.0 kg)
Payload	793 lbs (359.6 kg)
Tow Capacity	2,000 lbs (907.2 kg)
Warranty	2-Year Full Cart / 5-Year Battery

WARRANTY STATEMENT

COMMERCIAL CART

Car Warranty	Battery Warranty
2 Years / 10,000 miles	5 Years / 20,000 miles

LIMITED WARRANTY

GEM WAEV LLC, 2114 Ball Road, Anaheim, CA 92804, provides a TWO-YEAR/10,000 mile (16,000 km) LIMITED WARRANTY on all components of your GEM electric vehicle against defects in material or workmanship. Mileage is unlimited for the first 6 months. After month 6, coverage expires at 10,000 miles (16,000 km) or 2 years, whichever comes first. This warranty is transferable to another consumer during the warranty period through a Fusion dealer, but any such transfer will not extend the original term of either warranty.

LITHIUM BATTERY LIMITED WARRANTY

Battery coverage in this LIMITED WARRANTY begins on the date of purchase by the original retail purchaser and continues for SIXTY MONTHS or 20,000 miles (32,100 km), whichever comes first. During this period, GEM WAEV LLC warrants your vehicle's battery against defects in materials or workmanship at 100% of the cost of an approved Fusion battery at a Fusion dealer.

WARRANTY COVERAGE AND EXCLUSIONS

DURING THE PERIOD OF WARRANTY, any authorized Fusion service technician, dealer will, free of charge, repair or replace, at WAEV's option, any part judged defective by WAEV due to faulty workmanship or material from the factory. Parts used in warranty repairs will be warranted for the balance of the vehicle's warranty period. All parts replaced under warranty become property of WAEV.

EXCLUSIONS from this Warranty shall include any failures caused by:

- Abnormal strain, neglect, or abuse, including lack of proper maintenance,

and use contrary to the Owner's/Operator's Manual instructions.

- Accident or collision damage.
- Installation of parts or accessories that are not original equipment.
- Fading, rust, or deterioration due to exposure to ordinary wear and tear.
- Modifications or alterations that affect the car's condition, operation, performance, or durability, or which makes the car serve a purpose other than use the intended design.
- Damage due to improper transportation.
- Acts of God, i.e. lightning, hail damage, flooding, fire, etc.

This Limited Warranty does not cover any parts replaced due to normal wear or routine maintenance, including brake shoes, tire wear. Any charges incurred in transporting a golf car or charger to and from an authorized Fusion dealer for service or in performing field service are also excluded from this warranty.

THE CUSTOMER'S RESPONSIBILITY under this warranty shall be to operate and maintain the golf car and charger as specified in the appropriate Owner's/Operator's Manual, and give notice to an authorized Fusion dealer or any and all apparent defects within ten (10) days after discovery, and make the vehicle or charger available at that time for inspection and repairs by the dealer's authorized representative.

WARRANTY REGISTRATION

Both warranties begin on the date of purchase by the first owner. At the time of sale, the Warranty Registration Form must be completed by your dealer and submitted within three days. Purchasers must obtain a copy at time of signing as this serves as proof of coverage. **NO WARRANTY COVERAGE WILL BE ALLOWED UNLESS YOUR VEHICLE IS REGISTERED WITH GEM WAEV LLC.** Initial dealer preparation and set-up of your vehicle is very important in ensuring trouble-free operation.

MAINTENANCE LOG

MAINTENANCE LOG

Use the following chart to record periodic maintenance.

DATE	MILES (KM) OR HOURS	TECHNICIAN	SERVICE PERFORMED / COMMENTS

MAINTENANCE LOG

DATE	MILES (KM) OR HOURS	TECHNICIAN	SERVICE PERFORMED / COMMENTS

MAINTENANCE LOG

DATE	MILES (KM) OR HOURS	TECHNICIAN	SERVICE PERFORMED / COMMENTS

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