



**2026**

***Bandera***

72 Volt Lithium

**4x4 Flatbed  
Work Vehicle**

**Owner's Manual**

Warranty information appears at the end of this manual. No other warranties, expressed or implied, are contained herein. Your authorized representative checked the vehicle before it was delivered to you and will provide you with a copy of the completed vehicle warranty registration form.

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

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Martex Global Enterprise L.L.C. reserves the right to make design changes to vehicles without obligation to make these changes to units previously sold.

These vehicles do not conform to Federal Motor Vehicle Safety Standards for automobiles or to FMVSS 500 for low-speed vehicles, and are not equipped for operation on public streets, roads, or highways.

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## **FOREWORD**

Thank you for choosing HuntVe™, the industry leader in vehicle efficiency and long-lasting value. You have chosen the finest vehicle on the market. Please protect your investment and ensure that your HuntVe vehicle(s) provides years of reliable, superior performance by reading and following the maintenance instructions in this manual.

Your comfort and safety are important to us, so we urge you to read and follow the step-by-step operating instructions and safety procedures in this manual. These instructions must be followed to avoid the risk of severe personal injury. If you rent or loan your vehicle to others, we recommend that you ask them to read this manual before they operate the vehicle.

HuntVe products are backed by a customer support system designed to offer you fast, courteous service. If your HuntVe vehicle needs repairs or service, we recommend that your local authorized HuntVe representative perform them. For the name and address of the HuntVe representative nearest you, log on to our web site at [www.HuntVe.com](http://www.HuntVe.com) or call 1.888.554.5953. Your local authorized HuntVe representative can also provide technical advice, parts, and service manuals.

We hope you will consider this owner's manual a permanent part of your HuntVe vehicle. If you sell the vehicle, please include the manual so that the next owner will have the important operating, safety, and maintenance information it contains.

# Contents

FOREWORD.....	3
SAFETY INFORMATION .....	5
PROPOSITION 65 – STATE OF CALIFORNIA.....	6
SAFETY DETAILS .....	6
GENERAL WARNINGS .....	7
CONTROLS AND INDICATORS.....	9
PRE-OPERATION AND DAILY SAFETY CHECKLIST.....	11
PERFORMANCE INSPECTION .....	12
DRIVING INSTRUCTIONS .....	13
<b>Starting the vehicle</b> .....	14
LOADING AND UNLOADING – BOX BED VEHICLES .....	15
• TOWING A TRAILER WITH THE VEHICLE.....	16
• TOWING THE VEHICLE .....	16
TRANSPORTING ON A TRAILER.....	17
STORAGE .....	18
PERIODIC LUBRICATION SCHEDULE .....	19
LiPO4 Lithium Battery Set.....	22
Lithium Battery Care.....	23
CHARGING BATTERIES.....	24
Charger Cord.....	25
PLUG AND RECEPTACLE.....	25
CLEANING THE VEHICLE .....	26
ACCESSORIES .....	27
SUBSEQUENT OWNER REGISTRATION.....	27
SPECIFICATIONS – 2-PASSENGER.....	28
HUNTVE® LIMITED ONE YEAR WARRANTY .....	29
HuntVe Speedometer Button Function .....	32
HuntVe Dash Display .....	33
2016 and up Fuse Box Diagram .....	34
LifeP04 Lithium 15.lkw Battery.....	37
2. Normal performance: .....	40
4. BMS technical parameters.....	42
5. Bluetooth APP interface.....	42
6. Storage and Transportation .....	43
7. Warnings and Tips .....	43
NOTICE!.....	45
WARRANTY EXCLUSIONS .....	48
WARRANTY RETURNS.....	49
WARRANTY DISCLAIMER.....	49

## **SAFETY INFORMATION**

The following pages contain safety feature identification information. For detailed information on specific features, read the appropriate section in this manual.

### **PRACTICE SAFETY**

Safety signs you will see on your HuntVe may at first seem shocking, but their impact is mild compared with the reality of severe personal injury. Your safety and satisfaction are of the utmost importance to us. That is why before operating the vehicle, we urge you to review the information in this manual. Understand and become familiar with the DANGER, WARNING, and CAUTION statements and procedures it contains, along with the safety decals that are affixed to your vehicle. Take time to understand the language of safety. It is a language that can save your life.

## **PROPOSITION 65 - STATE OF CALIFORNIA**

### **. WARNING**

- This product contains or emits chemicals or substances that have been determined by the state of California to cause cancer and birth defects or other reproductive harm. **SAFETY DETAILS**

### **. WARNING**

- This owner's manual should be read completely before attempting to drive or service the vehicle. Failure to follow the instructions in this manual could result in property damage, severe personal injury, or death.

It is important to note that some vital statements throughout this manual and on the decals affixed to the vehicle are preceded by the words DANGER, WARNING, or CAUTION. For your protection, we recommend that you take special notice of these safety precautions. Safety precautions are essential and must be followed.

Throughout this manual the word "vehicle" is used in reference to any vehicles covered in this manual or may be used when referring to all vehicles.

If any of the operation or safety decals on the vehicle become damaged, have been removed or cannot be easily read, they should be replaced immediately to avoid possible property damage, personal injury, or death. Contact your dealer.

### **. DANGER**

- A DANGER indicates an immediate hazard that will result in severe personal injury or death.

### **. WARNING**

- A WARNING indicates an immediate hazard that could result in severe personal injury or death.

### **. CAUTION**

- A CAUTION with the safety alert symbol indicates a hazard or unsafe practice that could result in minor personal injury.

### **. CAUTION**

- A CAUTION without the safety alert symbol indicates a potentially hazardous situation that could result in property damage.

## GENERAL WARNINGS

### DANGER

**Battery – Explosive - Keep sparks and flames away from the vehicle and service area. Wear a full-face shield and rubber gloves when working on or near batteries.**

The vehicle does not provide protection from lightning, flying objects, or other storm- related hazards. If caught in a storm while driving a HuntVe vehicle, exit the vehicle and seek shelter in accordance with applicable safety guidelines for your location.

### WARNING

- Follow the procedures exactly as stated in this manual, and heed all DANGER, WARNING, and CAUTION statements in this manual as well as those on the vehicle and battery charger.
- Do not leave children unattended in the vehicle.
- Prior to leaving the vehicle unattended or servicing the vehicle, set the park brake, place the Forward/Reverse switch in the NEUTRAL position, turn the key switch to the OFF position, turn the power OFF and remove the key.
- Chock the wheels when servicing the vehicle.
- Improper use of the vehicle or failure to properly maintain it could result in decreased vehicle performance, severe personal injury, or death.
- Any modification or change to the vehicle that affects the stability or handling of the vehicle, or increases maximum vehicle speed beyond factory specifications, could result in severe personal injury or death.
- Check the vehicle for proper location of all vehicle safety and operation decals and make sure they are in place and are easy to read.
- Only trained technicians should service or repair the vehicle or battery charger.
- Anyone doing even simple repairs or service should have knowledge and experience in electrical and mechanical repair.
- The appropriate instructions must be used when performing maintenance, service, or accessory installation.
- No more than the design passenger capacity (2 persons) should be in the vehicle at one time. Do not allow a passenger to ride in a cargo area.
- Stop the vehicle completely before shifting the Forward/ Reverse switch.

- To help prevent overturning the vehicle, drive slowly straight up and down slopes. Avoid driving on sidehills or slopes exceeding 20% incline.
- To help avoid the possibility of losing control of or overturning the vehicle, reduce speed for adverse driving conditions such as wet grass or rough terrain.
- Do not drive while under the influence of alcohol, drugs, or medication.

## **GENERAL INFORMATION**

### **HuntVe electric vehicles:**

- Turn the batteries off before disconnecting or connecting the batteries. Failure to heed this warning could result in a battery explosion or severe personal injury. *Furthermore, damage may result to the entire electronic system causing failure of the speed controllers.*
- During service repair, to avoid unintentionally starting the vehicle, turn the batteries off as shown. **(Push and hold the power button for 3 seconds for the power button light to turn off.)** Then wait 90 seconds for the controller capacitors to discharge.
- Wear safety glasses or approved eye protection when servicing the vehicle or battery charger. Wear a full-face shield and rubber gloves when working on or near batteries.
- Do not wear loose clothing or jewelry such as rings, watches, chains, etc., when servicing the vehicle or battery charger.
- Use insulated tools when working near batteries or electrical connections.
- Use extreme caution to avoid shorting of components or wiring.
- Never submerge vehicle in water.
- Charge vehicle in a 50 degree or above environment for maximum charge efficiency.
- To protect motor(s), DO NOT drive vehicles in rough terrain or high-grade climbing when in a low state of charge.
- To maximize motor performance, always use momentum of vehicle in hill climbing and muddy environments.

### **⚠ WARNING**

- **Never allow vehicle batteries to completely discharge. In the event batteries discharge to the point where the batteries shut down and the vehicle will not run, contact a HuntVe service center if the charger will not turn on and recharge batteries. Discharging batteries to a low state of charge will damage batteries.**

## **MODEL IDENTIFICATION**

- Bandera™/ Model - The serial number of the vehicle is printed on a decal mounted under the dash, below the switch panel. (Example: MGEUE42RBF861001)
- **NOTE:** *Have the vehicle serial number available when ordering parts or making inquiries.*

## **CONTROLS AND INDICATORS**

- If loaning the vehicle, make sure the driver is familiar with all controls and operating procedures before allowing the vehicle to be driven.
- Any modification or change to the vehicle that affects the stability or handling of the vehicle, or increases maximum vehicle speed beyond factory specifications, could result in severe personal injury or death.
- Do not shift the Forward/Reverse switch while the vehicle is moving. To avoid injury to an unsuspecting passenger or damage to the vehicle, always bring the vehicle to a full stop before shifting the Forward/Reverse switch.
- Release the accelerator pedal and then press the brake pedal firmly until the vehicle stops. To avoid unintentionally starting or rolling the vehicle, set the park brake, place the Forward/ Reverse handle or switch in the NEUTRAL position, turn the key switch to the OFF position, and remove the key when leaving the vehicle.
- Never tow a vehicle with the Batteries power ON! Motor and controller damage will result.

### **KEY SWITCH**

- The key switch is mounted on the dash to the right of the steering column. It has two positions, OFF to the left and ON to the right.
  - **NOTE:** *The key can be removed only when the key switch is in the OFF position.*

## **HUNTVE VEHICLES**

- The Forward/Reverse rocker switch is located on the dash assembly upper left position.
- See The FORWARD and REVERSE positions are clearly marked. Push up for the FORWARD side of the switch to operate the vehicle in the forward direction or push down the REVERSE side of the switch to operate the vehicle in reverse. When the rocker switch is positioned in NEUTRAL, with neither side down, the vehicle will not operate if the accelerator pedal is pressed.

## **ACCELERATOR PEDAL**

- The accelerator pedal is the pedal on the right; it is adjustable for height and width. The operation of the accelerator pedal differs from that of an automobile. When the key switch is in the ON position, and the Forward/Reverse switch is in either the FORWARD or REVERSE position, pressing the accelerator pedal will start the vehicle moving in the direction selected (forward or reverse). As the accelerator pedal is pressed, speed will increase until full speed is reached. When the accelerator is released, power will be cut

## **BRAKE PEDAL**

- The brake pedal is the large pedal on the left.
- The park brake may not hold on an incline more than 20%. You will need to chock the tires to prevent the vehicle from rolling.

## **Power Buttons**

### **⚠ WARNING**

- **To Turn the power on** : Push and hold a single power button for three seconds. All battery buttons should light up as the batteries will sense Power and will turn themselves on. **( if you have more than one battery )**
- **To Turn the Power Off** : You must push and hold ALL of the battery buttons for three seconds to power down. All of the lights should be turned off. If not, that battery is still on and active.
- Turn the power buttons OFF before disconnecting or connecting the batteries. Failure to heed this warning could result in a battery explosion or severe personal injury. When the power buttons are turned off, all motor braking functions, including zero speed detect, are disabled.
- **The Power Button should be turned off under the following conditions:**
- **Before Towing the Vehicle:** Turn the power buttons OFF to disable all motor braking functions, thus preventing possible damage that could occur to the vehicle or electrical components if the vehicle is towed while the zero speed detect motor braking function is operating.
- **Before Disconnecting or Connecting Battery Cables:** Turn the Power Buttons OFF to Disable vehicle electrical system, thus preventing severe arcing and possible battery explosion as the battery cables are disconnected.
- **For Long-Term Storage:** Turn off power to the vehicle electrical system by pressing each battery off button thus preventing vehicle electrical components from discharging the batteries.

## **PRE-OPERATION AND DAILY SAFETY CHECKLIST**

- Each HuntVe™ vehicle has been thoroughly inspected and adjusted at the factory; however, upon receiving your new vehicle(s), you should become familiar with its controls, indicators, and operation. Carefully inspect each vehicle to ensure that it is in proper working condition before accepting delivery.
- Use the following checklist as a guide to inspect the vehicle. This checklist should be used daily to ensure that the vehicle is in proper working condition and in conjunction with the Periodic Service Schedule on page 24. Any problems should be corrected by a HuntVe dealer or a trained technician.
- **General:** All the parts should be in place and properly installed. Be sure that all nuts, bolts, and screws are tight.
- **Tires:** Check for proper tire pressure. Visually inspect tires for wear, damage, and proper inflation daily. **See Specifications – on page 31.**
- **Batteries:** Check battery posts. Wires should be tight and free of corrosion. On electric vehicles, charge batteries fully before first use of vehicle.
- **Charger cord, plug, and receptacle:** Visually inspect for cracks, loose connections, and frayed wiring. **See Plug and Receptacle on page 28.**

## PERFORMANCE INSPECTION

- After you have familiarized yourself with the vehicle controls and have read and understood the driving instructions, take the vehicle for a test drive.
- Use the following checklist as a guide to inspect the vehicle and check daily for proper operation. Any problems should be corrected by a HuntVe dealer or a trained technician.
- **All Vehicles**
- **Forward/Reverse control: Check for proper operation. See Controls and Indicators on page 11.**
- **Brakes:** Be sure the brakes function properly. When brake pedal is fully pressed under moderate pressure, it should not go more than halfway to the floor, and vehicle should come to a smooth, straight stop. If the pedal goes more than halfway to the floor, or if the vehicle swerves or fails to stop, have the brake system checked and adjusted as required. Brake adjustment must be maintained so that the brake pedal cannot be pressed to the floor under any circumstance.
- **Park brake:** When activated, the park brake should lock the wheels and hold the vehicle stationery (on an incline of 20% or less). It should be released when you push the parking brake.
- **Steering:** The vehicle should be easy to steer and should not have any play in the steering wheel.
- **Accelerator:** With the key switch in the ON position and the Forward/Reverse switch in the FORWARD position, as the accelerator pedal is pressed, the motor should start and the vehicle should come up smoothly to full speed. When the pedal is released, it should return to the original position and the motor should rotate freely. All HuntVe vehicles operate at reduced speed in reverse.
- When the pedal is released, it should return to the original position and the motor should rotate freely or go into motor braking mode. **See Pedal Up Motor Braking below.**
- **General:** Listen for any unusual noises such as squeaks or rattles. Check the vehicle's ride and performance. Have a HuntVe dealer or a trained technician investigate anything unusual.

### WARNING

- **Do not operate the vehicle on slopes exceeding 30% grades.**
- **Pedal Up Motor Braking (adjustable on HuntVe vehicles):** Accelerate the vehicle to full speed and then release the accelerator pedal. Motor braking should quickly and smoothly slow the vehicle. This feature is adjustable for HuntVe vehicles only. Contact your local HuntVe dealer/distributor to inquire about this adjustable feature.
- **Pedal Down Driving:** Accelerate down an incline with the accelerator pedal pressed. On very steep grades, the vehicle may slightly exceed its maximum designed speed, requiring use of the brake pedal.

## **DRIVING INSTRUCTIONS**

### **⚠ WARNING**

- Only licensed drivers should be allowed to drive the vehicle.
- If loaning the vehicle, make sure the driver is familiar with all controls and operating procedures before allowing the vehicle to be driven.
- No more than two people should be in the vehicle at one time.
- The vehicle is not specially equipped for handicapped people: Be sure all persons can properly operate the vehicle prior to allowing them to drive the vehicle. Be sure all passengers can secure themselves in the seat belt before allowing them to ride in one.

### **⚠ WARNING**

- For nighttime use, the vehicle must be equipped with headlights and taillights.
- Stop the vehicle before shifting the Forward/Reverse handle. Failure to do so may result in injury to an unsuspecting passenger and (or) damage to the vehicle.
- To help avoid being struck, do not stand in front of or behind the vehicle.
- Operate the vehicle from the driver seat only.
- To help prevent falls from the vehicle, remain seated with your seat belt on in a moving vehicle and hold on to the hand always holds or handrails. Driver should keep both hands on the steering wheel when the vehicle is in motion.
- To help prevent serious injury, keep your entire body inside the vehicle with seat belts fastened.
- Do not leave children unattended in the vehicle.
- To help prevent overturning the vehicle, drive slowly straight up and down slopes. Avoid driving the vehicle on slopes exceeding 40% incline.
- To help avoid possible injury to an inattentive passenger and (or) damage to the vehicle, avoid sudden starts, sudden stops, and abrupt turns.
- To help avoid the possibility of losing control of or overturning the vehicle, reduce speed for adverse driving conditions such as wet grass or rough terrain. Do not use the vehicle on public roads. It is not designed or intended for street use and should not be licensed for use on public roads.
- Where applicable, obey all local rules concerning off-road vehicles.
- The vehicle should be driven in only specified areas by trained drivers.
- Do not drive while under the influence of alcohol, drugs, or medications.
- To prevent overturning the vehicle, drive slowly in turns. Use brakes to reduce speed when coasting downhill.
- No one should drive the vehicle without first being instructed in the proper operation and use of the vehicle's controls. An experienced operator should accompany each first-time driver on a test drive before allowing him/her to operate the vehicle alone.
- To ensure safe operation of the vehicle, follow exact and in order, all the following procedures. Read and understand all the instructions prior to driving the vehicle.

## Starting the vehicle

- Study and understand controls.
- Read safety warnings located on dash and above pedals.
- For vehicles with cargo beds: Make sure the load is secure.
- Make sure everyone is seated with seat belts on and holding onto seat hand holds or handrails.
- Make sure the wheels are turned in the desired direction and that nothing is in your path.
- Turn the key to the ON position.
- Select direction by placing the Forward/Reverse handle or switch in desired position (F = forward or R = reverse).
- Place both hands on the steering wheel.
- Release the parking brake and slowly press the accelerator pedal... the vehicle will start to move. As the accelerator pedal is pressed, speed will increase until full speed is reached.  
**See the following WARNING and NOTE.**

### WARNING

- **Operator must control vehicle speed when going downhill.**
- **HuntVe vehicles:** “Pedal down” or “pedal up” motor braking may be used to help control speed when going downhill; however, steep terrain or other conditions may require that pedal braking be used in conjunction with motor braking.

## STOPPING THE VEHICLE

### WARNING

- **Driving through water may affect the brakes. After driving through water, check the effectiveness of the brakes by gently pressing the brake pedal. If the vehicle does not slow down at the normal rate, continue to press the brake pedal until the brakes dry out and normal performance returns.**

### CAUTION

- **When stopped on a hill:** use the brake pedal to hold your position. Do not use the accelerator pedal to hold position.

To stop the vehicle, release the accelerator pedal and press the brake pedal with your right foot until the vehicle comes to a complete stop.

## PARKING AND LEAVING THE VEHICLE

- After stopping the vehicle, set the parking brake.
- Turn the key switch to the OFF position and place the Forward/Reverse handle or switch in the NEUTRAL position. Remove the key when the vehicle is not in use.  
Turn the Battery Power Off

## LOADING AND UNLOADING – FLATBED VEHICLES

### ⚠ WARNING

- Engage the park brake before loading the vehicle.
- Do not allow riders in the cargo bed.
- Do not exceed the rated capacity of the vehicle. Rated capacity is for level surfaces only.

### ⚠ WARNING

- Overloading can affect vehicle handling or cause component failure, resulting in loss of control of vehicle and possible severe personal injury. □ Reduce speed and avoid sudden stops when backing up. Failure to do so may cause the vehicle to overturn or flip over backwards.
- Avoid stopping on a hill when loaded. If you must stop on a hill, avoid sudden starts, or rolling backwards and stopping suddenly. Failure to heed this warning may cause vehicle to overturn, possibly resulting in severe personal injury.
- Reduce vehicle load and speed when driving up or down slopes or on uneven terrain.
- The tailgate should be in the upright position and latched securely while the vehicle is in motion.
- To help avoid shifting the vehicle load and possibly overturning the vehicle, avoid sudden starts, sudden stops, and abrupt turns. Make sure cargo is well-secured.
- The cargo's center of gravity may affect the handling, steering, and braking of the vehicle. When the vehicle is loaded, reduce speed and drive slowly in turns.
- Avoid top-heavy loads. The center of gravity of a load should never exceed 15 inches (38 cm) above the bottom of the cargo bed.
- Unload cargo bed before raising vehicle with a lift, hoist, or jack.
  
- When loading the vehicle, center and secure cargo as far forward as possible in the cargo bed. Do not overload the vehicle. See the following chart for vehicle capacities.
  
- **Maximum payload capacity** 1000 lb.  
(cargo bed load plus gross trailer weight) (453.592 kg)
  
- **Maximum vehicle capacity** 1500 lb.  
(cargo bed load, passengers, plus gross trailer weight) (680.3886 kg)
  
- 150 lb. force **Trailer tongue weight**

## • **TOWING A TRAILER WITH THE VEHICLE**

### **⚠ WARNING**

- Do not tow a vehicle on public streets or highways.
  - Normal vehicle operating speed should be reduced when towing.
  - Extreme caution should be used when towing.
  - Total vehicle capacity, including the vehicle load rating and the gross weight of the vehicle or trailer being towed should not exceed the weight previously specified.
  - Do not allow riders in the vehicle or trailer being towed.
  - Avoid sudden starts, sudden stops, and tight turns when towing.
  - Avoid stopping on a hill when towing. If you must stop on a hill, avoid sudden starts or rolling backwards and stopping suddenly. Failure to heed this warning could cause the vehicle to overturn, possibly resulting in severe personal injury.
- 
- Because towing a vehicle or trailer can have adverse effects on vehicle handling, be especially cautious when towing with a HuntVe vehicle. See the preceding chart for vehicle capacities (page 15).
- 
- Parking the vehicle with a trailer on a hill should be avoided. If you must park on a hill, apply the brakes and have someone chock the tires of the trailer. Brakes should be released to allow the chocks to absorb the load of the trailer. After the tires have been chocked, engage the park brake.

## • **TOWING THE VEHICLE**

### **⚠ WARNING**

- Do not tow the vehicle on public streets or highways.
- Turn the key switch to the OFF position and turn the Battery Power Off before towing the vehicle.
- Extreme caution should be used when towing any vehicle.
- Do not exceed 5 mph (8 km/h) towing speed.
- Do not allow people in the vehicles to be towed.
- Avoid sudden starts, sudden stops, and tight turns when towing.
- Avoid stopping on a hill when towing. If you must stop on a hill, avoid sudden starts or rolling backwards and stopping suddenly. Failure to heed this warning could cause the vehicle to overturn, possibly resulting in severe personal injury.

## **TRANSPORTING ON A TRAILER**

**⚠ WARNING**

- For use on public roads, the trailer must meet all federal, state, and local requirements such as taillights, brake lights, etc.
- Do not tow a HuntVe vehicle behind a passenger vehicle or truck on a public road unless it is on an approved trailer.
- The vehicle to be towed should be tied securely to the trailer, with the Forward/Reverse handle or switch in the NEUTRAL position, the key switch in the OFF position, and the park brake firmly pressed and locked.
- Do not allow people in the trailer or vehicle to be towed.
- Avoid sudden starts, sudden stops, and tight turns when towing. When towing on a trailer, the normal road speed of the tow vehicle should be reduced.
- Because of the added length of the trailer, use caution when making turns. Remove the vehicle windshield and secure the seat bottom before transporting on a trailer.
- If the vehicle must be transported over long distances or on public highways, it should be transported on an approved trailer that has the approved load rating of 1900 lb. per vehicle being transported.

**NOTE:** *A two-car trailer should be rated at 2 x 1900 lb. = 3800 lb.*

## **STORAGE**

See General Warnings on page 8.

### **⚠ WARNING**

- Turn the key switch to the OFF position, remove the key, and leave the
- Forward/Reverse switch in the NEUTRAL position during storage. Turn the battery Power Off. This is to prevent unintentionally starting the vehicle or a fire hazard.
- Do not attempt to charge frozen batteries or batteries with bulged cases.
- Call for instructions for disposal of the battery.

### **⚠ CAUTION**

- Batteries (Lithium) should be stored at 32f – 113F indoors where it is dry, clean and well ventilated. To avoid exposing electrical components to moisture and subsequent damage, do not use any type of pressure washing or steam cleaning equipment to wash the vehicle. A water hose will do just fine for cleaning.
- **PREPARING THE ELECTRIC VEHICLE FOR EXTENDED STORAGE**
- Unload the vehicle so that the tires support only the weight of the vehicle.

### **Maintenance**

- Fully charged batteries. **See Charging Batteries on page 27.**
- Batteries should be clean and free of corrosion.
- Store the vehicle in a cool, dry place. This will minimize battery self-discharge.
- Adjust tires to recommended tire pressure. **See Specifications on page 31.**
- Perform semiannual periodic lubrication. **See Periodic Lubrication Schedule on page 20.**
- Thoroughly clean front body, rear body, seats, and underside of vehicle.
- Chock the wheels to prevent the vehicle from rolling. 8. Keep batteries fully charged during storage. \* **Always be charging!**
- The Batteries will turn off if not used for 12 hours
- **Chargers:** Leave Charger plugged in during storage. The charger will automatically activate when necessary. If charger cannot remain plugged in, or AC power will not be available during extended storage, the batteries will turn off after 12 hrs of non-use.

### **⚠ CAUTION**

- **Be sure to check the batteries and charger monthly to maintain correct battery water level and to ensure the charger is operating correctly during storage.**

## **RETURNING THE STORED ELECTRIC VEHICLE TO SERVICE**

1. If necessary, with the battery power off , tighten terminals to 110 in- lb. (12.4 NM).
2. Fully charged batteries.
3. Adjust tires to recommended tire pressure. **See Specifications –on page 31.**
4. Perform the Pre-Operation and Daily Safety Checklist on page 16 and the Performance Inspection on page 16.

## **Periodic Service Schedule**

### **⚠ WARNING**

- **If any problems are found during scheduled inspection or service, do not operate the vehicle until repairs are made. Failure to make necessary repairs could result in fire, property damage, severe personal injury, or death.**
- **Do not wear loose clothing or jewelry, such as rings, watches, chains, etc., when servicing the vehicle.**
- **Turn key switch to the OFF position, remove the key, place the**
- **Forward/Reverse switch in the NEUTRAL position, and chock wheels prior to servicing.**
- **Hot! Do not attempt to service hot motor or resistors. Attempting to do so could cause severe burns.**
- **Do not work on the vehicle power train or under the cargo bed when it is loaded.**

PERIODIC SERVICE SCHEDULE		
REGULAR INTERVAL	SERVICE	
Daily service by owner	Pre-Operation and Daily Safety Checklist	See Pre-Operation and Daily Safety Checklist on page 14.
	Performance Inspection	See Performance Inspection on page 15.
	Lipo4 Lithium Batteries	Charge batteries (after each daily use only).
Weekly service by owner	Lithium Batteries	Check to make sure your batteries are on.
Monthly service by owner or trained technician	Check air pressure and adjust if necessary.	Check air pressure and adjust if necessary-18 to 20PSI.
	Check Tires for damage.	
	Damage to the suspension components	
Semiannual service by trained technician only (every 50 hours)	Brake system.	Check brake pads; replace if necessary.
		Lubricate brake slides per Lubrication Schedule.
		Check brake lines for damage; replace if necessary.
	Electrical wiring and connections	Check for tightness and damage.
	Forward/Reverse switch	Check the condition of contacts and wire connections. Make sure the connections are tight.
	Front wheel alignment	Check and adjust as required. See
	Electronic Throttle	Check for loose hardware, cracks and other damage.
Annual service by trained technician Batteries only (every 100 hours)		If batteries are not performing as expected.

**⚠ WARNING**

- If any problems are found during scheduled inspection or service, do not operate the vehicle until repairs are made. Failure to make necessary repairs could result in fire, property damage, severe personal injury, or death.

## PERIODIC LUBRICATION SCHEDULE

<b>PERIODIC LUBRICATION SCHEDULE</b>			
<b>REGULAR INTERVAL</b>	<b>SERVICE</b>	<b>LUBRICATION POINTS</b>	<b>RECOMMENDED LUBRICANT</b>
<b>By owner or trained technician (every 200 miles)</b>	Brake pedal shaft bearings		Dry Moly Lube
	Brake linkage and pivots		Dry Moly Lube
	Accelerator pivot rod supports		Dry Moly Lube
	Charger receptacle (all vehicles). Forward/Reverse switch contacts*		WD-40
	Brake slides		Dry Moly Lube
	suspension (8 fittings)		Chassis Lube – EP NLGI Grade 2
<b>By owner or trained technician (Every 500 Miles)</b>	Replace transaxle Fluid Drain from bottom plug Refill trough vent on top		22 oz. (0.67 liters) 22 oz. (0.67 liters) SAE 85-90 WT. API Class SE, SF, or SG Oil (or higher)

## **VEHICLE CONTROLLER**

- The electric vehicle is equipped with a solid-state speed controller. In order to properly service and maintain the solid-state controller vehicle, it is necessary to understand the electrical circuitry and the functions of all components in both systems. Therefore, if any repair or service needs to be performed, we recommend that it be performed by an authorized HuntVe dealer using HuntVe OEM parts. Not understanding or being trained how to properly handle controllers can damage controllers and require replacement.

### **LiPO4 Lithium Battery Set**

**See General Warnings on page 8.**

#### **DANGER**

- **Do not smoke. Keep sparks and flames away from the vehicle and service area. Wear a full-face shield and rubber gloves when working on or near batteries.**

#### **⚠ WARNING**

- **Before servicing the electronics or batteries, Power off the batteries at the source.**
- **Wear safety glasses or approved eye protection when servicing the vehicle or battery charger.**
- **Use insulated tools when working near batteries or electrical connections. Use extreme caution to avoid shorting of components or wiring.**

#### **⚠ CAUTION**

- **On all vehicles, turn off all accessories before charging batteries.**

**NOTE:** *Recycle or dispose of discarded batteries in accordance with local, state, and federal regulations.*

## Lithium Battery Care

- Lithium Battery Maintenance
- Lithium batteries have a high energy density and long lifespan. To keep your lithium battery in tip top condition, follow these tips.
- Make sure to regularly charge your lithium batteries. They can be charged at any state of charge.
- Remember to keep your lithium batteries at a moderate temperature (typically between 50-80 degrees Fahrenheit).
- Bolt lithium batteries have built-in protection against overcharging.
- Make sure to use your factory charger designed for lithium batteries to ensure efficient and safe charging.
- Unlike lead-acid batteries, lithium batteries are maintenance free.
- There is no need to clean terminals or check any water levels. Just like lead-acid batteries, if you find any abnormalities, you should replace them.
- When it's time to replace, make sure you dispose of the old battery properly.



## **BATTERY CHARGER**

### **⚠ WARNING**

- Each charger should have its own dedicated 15 or 20 ampere separately protected (circuit breaker or fuse) single phase branch circuit, in accordance with all applicable electrical codes for the location.
- Connect the charger AC supply cord to a properly grounded, three-wire outlet of the proper voltage and frequency as shown on the charger.  
Do not use an adapter to plug the charger with a three-prong plug into a two-prong outlet.  
Improper connection of the equipment-grounding conductor can result in a fire or an electrical shock.
- An extension cord or electrical outlet must accept a three-prong plug. Extension cord should be a three-wire No. 14 AWG (American Wire Gauge) or No. 14 SWG (British Standard Wire Gauge) and be as short as possible. The use of improper extension cord could result in fire or an electrical shock.
- Do not operate the charger if it has received a sharp blow, was dropped, or otherwise damaged in any way.
- Have worn, cut, or damaged power cords or wires replaced immediately.
- Do not use near fuels, grain dust, solvents, thinners, or other flammables.
- Chargers can ignite flammable materials and vapors.
- Do not expose to rain or any liquid. Keep the charger dry.
- Never push objects of any kind into the charger through cabinet slots. They may touch dangerous voltage points or cause an electrical short circuit that could result in fire or electrical shock.
- Do not connect a stationary charger to the receptacle if the charger cord, plug, or the vehicle receptacle is broken, damaged, or does not make a good electrical connection. Fire or personal injury can result. Have a qualified technician to replace the parts.
- When the charger is on, the charger DC cord may be disconnected from the vehicle receptacle slowly. Jerking or pulling the DC cord out quickly could cause arcing and burning that could damage the plug and receptacle and could cause batteries to explode.
- Do not block or cover the charger ventilation fan. The fan provides ventilation and protects the charger from overheating.
- Do not allow clothing, blankets, or other material to cover the charger.
- Do not allow the charger to operate for more than 30 minutes at 19 or more amperes.
- Install surge arrestors on incoming AC power lines. Surge arrestors will help protect electrical components in the charger and on the vehicle from all but direct or close lightning strikes.

## **CHARGING BATTERIES**

### **Charger Cord**

- Be sure all wire connections at the receptacle are clean and tight.
  - Do not rock or bend the plug. To connect the charger cord to the vehicle receptacle, grasp the plug handle and push the plug straight into the receptacle. Do not connect a charger to the receptacle if the charger cord, plug, or the vehicle receptacle is broken, damaged in any manner, or does not make a good electrical connection. Fire or personal injury can result. Have it replaced by a qualified service person immediately.
  - Failure to follow these instructions could result in damage to the charger cord, the plug, and (or) the vehicle receptacle.
  - Do not use a charger if: The plug is too loose or does not make a good connection. - The cord and receptacle feel hotter than normal during charge.
  - The plug pins or receptacle contacts are bent or corroded.
  - The plug, receptacle, or cords are cut, worn, have any exposed wires or are damaged in any way.
  - Using the charger with any of the above symptoms could result in a fire, property damage, personal injury, or death.
- 
- Insert the Extension Cord into the vehicle receptacle. The charger will turn on in two to ten seconds later.
  - When inserting the AC plug, align the raised guide on the plug with the guide slot in the receptacle and push straight in slowly.
  - Battery chargers made by other manufacturers may not be compatible.
  - If the charger is allowed to shut off by itself, the batteries will be fully charged. Overcharging and undercharging will normally be prevented.
  - Batteries should be put on charge even if they have been used for only a short period. The charger is automatic and will turn off when batteries are fully charged. If the charger does not seem to be operating properly, or if the batteries seem weak, contact your local HuntVe dealer.

### **PLUG AND RECEPTACLE**

- The extension cord, plug, and receptacle are wear items and should be inspected daily. Visually inspect them for cracks, loose connections, and frayed wiring; they must be replaced when worn or damaged. If the charger plug or receptacle show signs of corrosion, or the plug is difficult to insert or remove the receptacle contacts and plug terminals should be cleaned with a good electrical contact cleaner or lightly sprayed with WD-40 brand spray lubricant. The plug should then be inserted and removed several times to ensure ease of insertion, ease of removal, and good electrical contact.

## **CLEANING THE VEHICLE**

- HuntVe vehicles are equipped with ArmorFlex<sup>®</sup> front and rear bodies. Use only commercially available automotive cleaners with a sponge or soft cloth for normal cleaning. A garden hose at normal residential water pressure is adequate.
- The use of any type of pressure washing or steam cleaning system is not recommended. Such a process will expose electrical components to moisture. Moisture entering electrical components can result in water damage and subsequent component failure.
- Use non-abrasive wax products. Battery acid, fertilizers, tars, asphalt, creosote, paint, or chewing gum should be removed immediately to prevent possible stains.
- *Accessories*
- The seats of the vehicle will last longer with proper cleaning. Use a solution of 10% liquid soap and warm water applied with a soft cloth. For imbedded dirt, a soft bristle brush may be used. For heavy soiling, difficult stains or scratches, blemishes, or other body damage, see Section 4 of the appropriate maintenance and service manual.

***NOTE: Dispose of wastewater properly.***

## **ACCESSORIES**

There is a complete line of accessory equipment available from HuntVe and our dealers. You can obtain the name and phone number of your closest HuntVe contact by visiting our web site at [www.HuntVe.com](http://www.HuntVe.com).

Care should be taken that these accessories are properly installed by trained technicians, and that they are used in the manner for which they were designed. See following WARNING.

### **⚠ WARNING**

- **Tinted windshields and weather-proof enclosures will not protect occupants from flying objects.**

## **SUBSEQUENT OWNER REGISTRATION**

In the event a vehicle is bought as a used vehicle, we strongly urge the new owner to register the vehicle with HuntVe. This will enable us to contact you if the need arises. Please send your name, address, and serial number(s) of the vehicle(s) by fax or email to Martex Global Enterprise L.L.C. fax 888.271.2815 email [info@huntve.com](mailto:info@huntve.com).

## SPECIFICATIONS – 2-PASSENGER FLATBED

SPECIFICATIONS	2-PASSENGER	
<b>POWER SOURCE</b>		
<b>Drive motor:</b> Direct drive, 72volts DC, shunt-wound, 20 hp front – 20 hp rear	•	
<b>Transaxle:</b> Double reduction helical gear with 12.3:1 direct drive axle	•	
<b>Electrical system:</b> 12/72 volts DC	•	
<b>Batteries:</b> High capacity, Lithium LiPO4	•	
<b>Charger:</b> Automatic, 72volt; UL and CSA listed	•	
<b>STEERING/SUSPENSION/BRAKES</b>		
<b>Steering:</b> Self-adjusting rack and pinion	•	
<b>Front Suspension:</b> Tapered double a-arm with dual coil over hydraulic shocks	•	
<b>Rear Suspension:</b> Tapered double a-arm with dual coil over hydraulic shocks	•	
<b>Brakes:</b> 4 wheel hydraulic – 4-wheel disc brakes with lever pull park brake	•	
<b>BODY/CHASSIS</b>		
<b>Frame/Chassis:</b> Powder coated heavy duty steel	•	
<b>Front and rear body:</b> ArmorFlex®	•	
<b>Body finish:</b> Water transfer camo and solid colors	•	
<b>Tires:</b> Rough terrain with 14" aluminum wheels	•	
<b>DIMENSIONS/WEIGHT</b>		
<b>Overall length</b>	137 in. (348 cm)	
<b>Overall width</b>	57 in. (145 cm)	
<b>Overall height (with canopy)</b>	86 in. (196 cm)	
<b>Wheelbase</b>	101 in. (257 cm)	
<b>Ground clearance.</b>	11.75 in. (30 cm)	
<b>Weight (without batteries)</b>	1440 LBS	

<b>Forward speed</b>		25 mph
<b>Curb clearance circle (diameter)</b>		23 ft.
<b>Standard seating capacity</b>		2
<b>Transaxle</b>		22 oz. 85/90 gear lube (0.67 liters)
<b>TIRE PRESSURE Front and rear: Off-road tread</b>		18-20 psi

## **HUNTVE® LIMITED ONE YEAR WARRANTY**

### **1. WARRANTY:**

Martex Global Enterprise L.L.C., ("HUNTVE") hereby warrants to the Purchaser that its Vehicle purchased from HUNTVE™ shall be free from defects in material and workmanship under normal use and service for the periods stated below, subject to the provisions, limitations and exclusions contained in this limited warranty. **This warranty applies to original Purchaser owner only and is nontransferable.**

**LIMITED ONE YEAR WARRANTY:** All original equipment including battery charger and solid-state speed controller, supplied by HUNTVE™ are warranted with respect to parts and labor against defects in material and workmanship for a period of one year from the date of purchase.

This limited warranty covers material, workmanship and repair labor cost listed above for the period specified. Such repair labor shall be performed only by HUNTVE, its authorized distributors or dealers, or a service agency approved by HUNTVE.

IF THE WARRANTY REGISTRATION FORM IS NOT COMPLETED AND RETURNED TO HUNTVE AT THE TIME OF THE ORIGINAL RETAIL SALE, THE PURCHASER MUST PROVIDE PROOF OF DATE OF PURCHASE WITH ANY WARRANTY CLAIM.

### **2. EXCLUSIONS:**

Excluded from any HUNTVE warranty are all fuses, decals (except safety decals), light bulbs, lubricants, trim pieces, seats, routine wear items such as the charger plug and receptacle, brake shoes, CV boots, belts, brushes, bushings, drive buttons, mats and pads, maintenance adjustments, cosmetic deterioration, and items which deteriorate or fail due to exposure or ordinary wear and tear. Also excluded from any HUNTVE warranty is damage to a vehicle or component resulting from a cause other than a defect including unreasonable or unintended strain or use, improper installation of accessories, installation of parts or accessories that are not original equipment, overloading, accident, alteration, abuse or neglect.

Transportation expenses for warranty services are also excluded from this warranty.

### **3. VOIDING OF WARRANTY:**

THIS AND ANY OTHER WARRANTY SHALL BE VOID IF THE VEHICLE IS ABUSED OR USED IN AN UNINTENDED MANNER OR SHOWS INDICATIONS THAT IT HAS BEEN ALTERED IN ANY WAY, INCLUDING, BUT NOT LIMITED TO, MODIFICATION OF THE SPEED GOVERNOR, BRAKING SYSTEM, STEERING, TRANSAXLE, OR OTHER OPERATING SYSTEMS OF THE VEHICLE TO CAUSE IT TO PERFORM OUTSIDE HUNTVE SPECIFICATIONS. THE WARRANTY IS LIKEWISE VOID IF THE VEHICLE INVOLVED SHOWS INDICATIONS THAT REASONABLE OR NECESSARY MAINTENANCE AS OUTLINED IN THE OWNER'S MANUAL AND MAINTENANCE AND SERVICE MANUAL WAS NOT PERFORMED AT THE TIME AND IN THE MANNER SPECIFIED IN SUCH MANUALS.

### **4. SOLE REMEDY:**

HuntVe's liability under this limited warranty or in any action whether based upon warranty, contract, negligence, strict product liability, or otherwise, shall be the repair or replacement, at HuntVe's option, of the vehicle or component thereof that HUNTVE deems to be defective. Replacement shall mean furnishing, during the applicable limited warranty period, a factory-reconditioned vehicle or component thereof that is identical or reasonably equivalent to the warranted product or component at no cost to the purchaser. Repair shall mean remedying a defect in the vehicle or component thereof at no cost to the purchaser during the applicable limited warranty period. If HUNTVE elects to repair the vehicle, it may provide factory-reconditioned parts or components. All parts and components replaced under warranty shall become the property of HUNTVE.

### **5. HOW TO MAKE A WARRANTY CLAIM:**

To make a warranty claim under this limited warranty, you must present the vehicle or defective component to an authorized HUNTVE dealer or send the defective component; freight prepaid, to WARRANTY SERVICES, Martex Global Enterprise L.L.C. Granbury, TX 76049

### **6. DISCLAIMER:**

**THIS LIMITED WARRANTY IS EXCLUSIVE. HUNTVE MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS OR TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY HUNTVE AND EXCLUDED FROM THIS WARRANTY. THE PURCHASER AND HUNTVE EXPRESSLY AGREE THAT THE REMEDY OF THE REPLACEMENT OR REPAIR OF THE DEFECTIVE VEHICLE OR COMPONENT THEREOF IS THE SOLE REMEDY OF THE PURCHASER. HUNTVE MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, AND NO REPRESENTATIVE, EMPLOYEE, DISTRIBUTOR OR DEALER OF HUNTVE HAS THE AUTHORITY TO MAKE OR IMPLY ANY REPRESENTATION, PROMISE OR AGREEMENT, WHICH IN ANY WAY VARIES THE TERMS OF THIS WARRANTY.**

### **7. NO CONSEQUENTIAL DAMAGES:**

**IN NO EVENT SHALL HUNTVE BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS RELATED TO PROPERTY OTHER THAN THE VEHICLE, LOSS OF USE, LOSS OF TIME, INCONVENIENCE, OR ANY OTHER ECONOMIC LOSS.**





## **HuntVe Speedometer Button Function**

### **WARNING**

All Adjustments will require the key switch to be in the on position. Make sure the vehicle forward/reverse switch is in the neutral position.

### **24 Hour Clock Adjustment**

1. While in the normal display status press the SET button for at least 3 seconds and release when the hour screen displays, and the hour is flashing.
2. Press the ADJ button to change the hour.
3. Press the SET button until the minute number is flashing.
4. Press the ADJ button.
5. The normal display will return after 5 seconds of no activity.

### **KM/MPH Adjustment**

1. While in the normal display status press the SET button for at least 3 seconds and release when the hour screen hour is flashing.
2. Press the SET button until the km/mph display is flashing.
3. Press the ADJ button to change to km or mph.
4. The normal display will return after 5 seconds of no activity.

### **Reset Trip Mileage.**

1. Press and hold the ADJ button until the trip mileage clears.
2. The normal display will return after 5 seconds of no activity.

### Adjust the screen Brightness

1. Press the ADJ button and release.
2. The screen brightness number will display. The number 1 is the darkest and 5 is the lightest.
3. Press and hold the ADJ button to change the number.
4. Press the ADJ button to return to the normal display.
5. The normal display will return after 5 seconds of no activity.

Martex Global Enterprise L.L.C. Granbury, Texas 76049

Phone 888-554-5953 Fax 888-271-2815

### HuntVe Dash Display



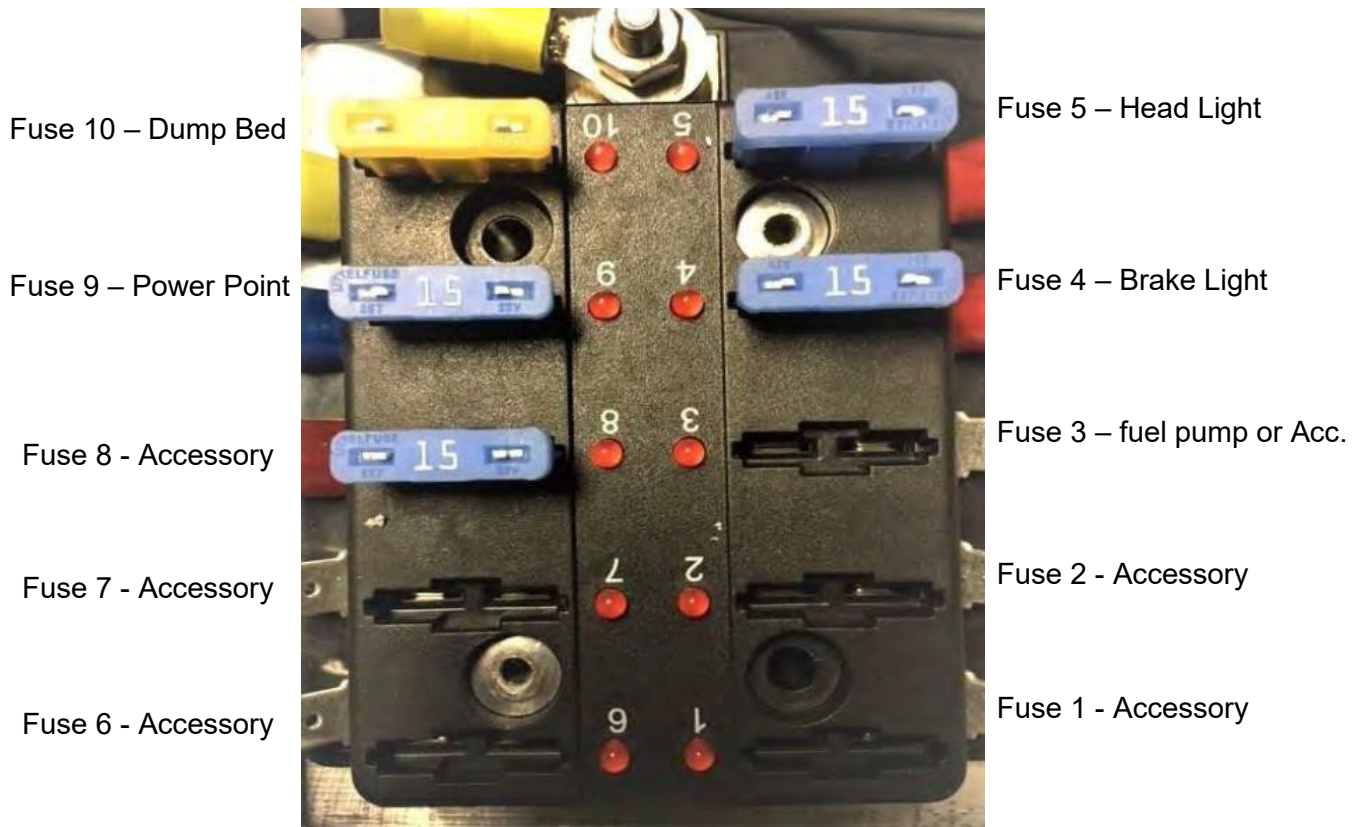
The dash display provides the vehicle driver with real time battery voltage conditions:

1. With the horsepower demand from the motors.
2. With traction resistance.
3. With the throttle demand.

This display works like a fuel milage feature – the higher you keep the battery voltage the longer the range you will get.

**\* For the most precise indication of remaining battery charge, refer to the round digital gauge located on the dashboard, to the right of the main display.**

## 2016 and up Fuse Box Diagram



# NAVITAS

## Flexibility

- Programmable to match the unique characteristics of each separately excited motor model.
- Programmable low-voltage battery discharge interrupt (BDI) cutbacks will limit motor current to extend the battery charge.
- Up to three speed limit inputs with programmable cutback speeds and priority level

## **Control**

- Full bridge field control design allows reversing without the use of direction contactors.
- Armature current controlled at all times to help reduce brush wear and arcing.
- Regenerative braking harnesses excess energy to extend the battery charge.
- Motor over-speed protection is ensured using the motor field.

## **Communications**

- Integrated LEDs flash information and error codes for basic controller diagnostics
- Protected I/O connections.

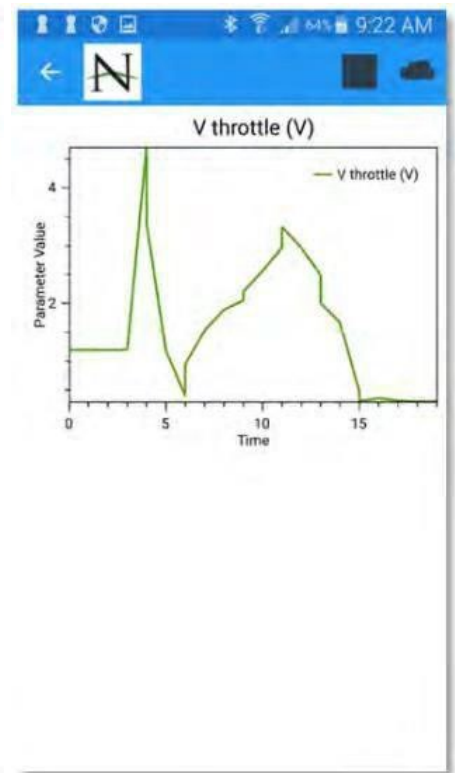
## **Safety**

- Regenerative braking provides vehicle speed control at any throttle position when going down ramps and channels the extra energy back into the batteries for longer battery life.
- Adjustable regen settings allow for braking strength to be tailored to the specific vehicle for safety during stopping and forward/reverse transitions.
- Safe-Sequencing including high pedal disable (HPD) and static-return-to-off (SRO) interlock ensure safe startup and vehicle operation.
- Controlled temperature cutback on armature and field drive current limits ensures there is no sudden loss of power under any thermal condition

### Apps and Configuration Tools (TSX3.0 Controller only)

- Various iOS and Android apps for smart phones and tablets are available at the App Store and Google Play (Free APPs).
- Android Phones-Down Load from Google Play-Search Apps-“Navitas Vehicle Systems Ltd” Select-Install ○  
 iPhone-Down Load from App store-Search “Dashboard Navitas” Select-Install ○ Complete Installation of Controller in Vehicle

Make sure Bluetooth is turned on your phone to make app work



- Publicly available Dashboard Apps allow the vehicle owners to remotely lock their vehicle, monitor usage and performance or notify their dealers with diagnostic information
- Authorized Dealer Apps allow modifications for basic vehicle types and settings.

Congratulations on your new high performance  
LifeP04 Lithium 15.kw Battery

Quick Start guide

**ALERT**

ABC

**\*Always \*Be \*Charging**

\* Always **keep** your Vehicle plugged in to the smart charger when not in use. The Battery computer (**BMS**) will turn charger on & off as **needed**.

\*If you do not do this, your SOC (State of Charge) meter will read inaccurately the next time you use your Vehicle. You potentially will run out of power sooner than expected.

\*If your Vehicle will not be in use for more than 1 week, we recommend leaving your Battery at 50-70% SOC on the meter, unplug your charger from the wall outlet, and turn off the Battery by pressing the on/off switch on the Battery. When you are ready to put the Vehicle back in service, turn on the Battery, plug in the charger to the wall outlet, and let the charger perform a full charge cycle uninterrupted. This will re-sync the SOC meter to the Battery and you will be fully charged.

**\* Bolt energy USA batteries are provided as energy storage to provide power for HuntVe Vehicles.**

**\* You should not use our products for anything not recommended by the original manufacture of your Vehicle. We highly encourage you to contact the original manufacturer of your Vehicle if you have any intentions to modify their original design or specifications to ensure those modifications are safe.**

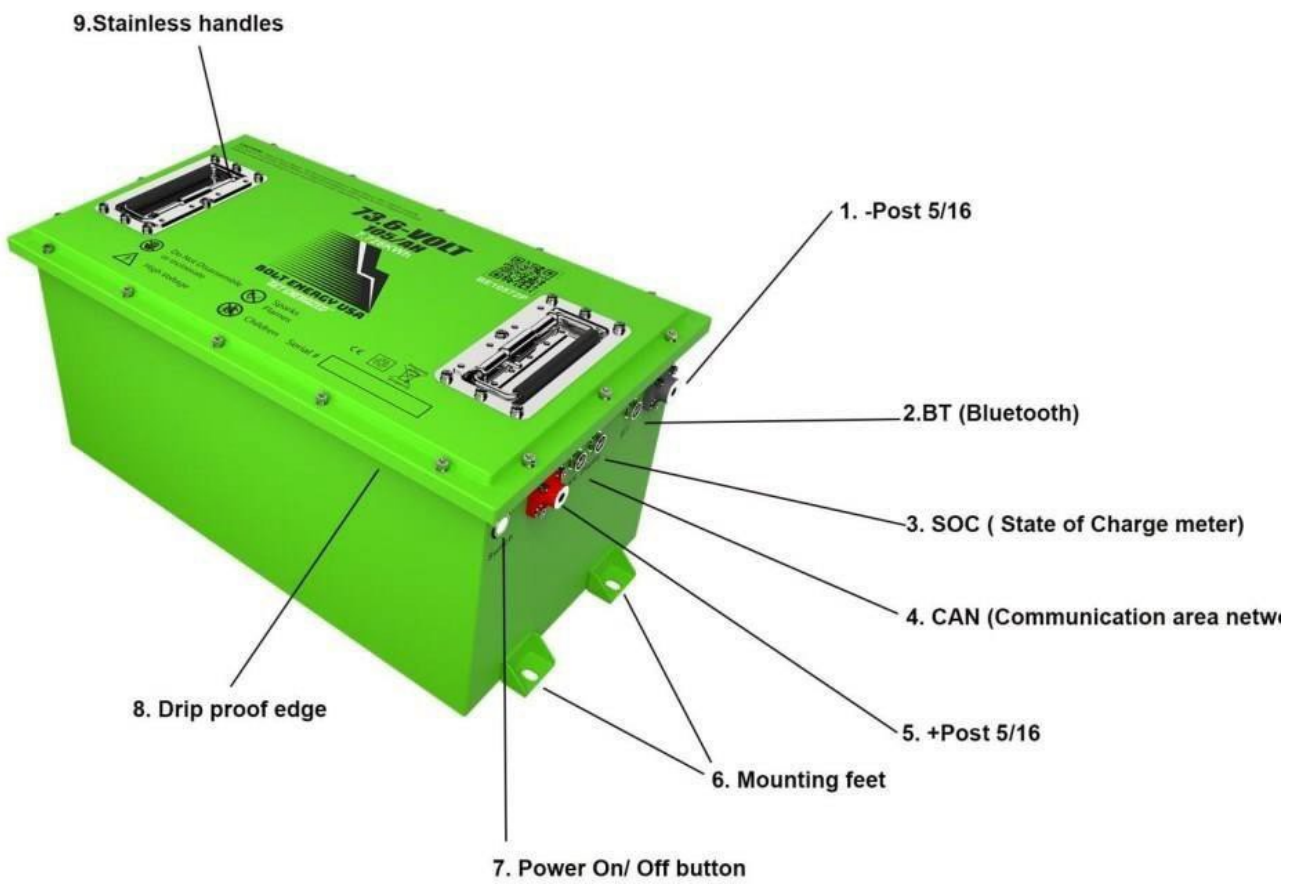
**\* Do not use any extension cord over 25ft with a rating below 14 AWG. Longer extension cords with lighter gauge wires create heat resistance and could present a risk of electrical fire.**

**\* Failure to follow these instructions will VOID the warranty and will create operational issues with your Battery and Vehicle.**

**Customer acknowledgement:**

**Sign: \_\_\_\_\_ Date: \_\_\_\_\_**

Please refer to your owner's manual for additional Battery operations, safety precautions, Bluetooth, installation/wiring diagrams, etc.



## 2. Normal performance:

<b>NO.</b>	<b>Item</b>	<b>General Parameter</b>	
<b>1</b>	Rated capacity	210Ah	
<b>2</b>	Standard voltage	73.6V (23S)	
<b>3</b>	Standard Charge voltage	73.6 V	
<b>4</b>	Charging method	CC-CV	
<b>5</b>	Charge current	Normal	200A
		Max	750A
<b>6</b>	Cut-off voltage	57.5V	
<b>7</b>	Continuous discharge current	500A	
<b>8</b>	Peak discharge current	1000A(30 Secs)	
<b>9</b>	Total weight	137.26 LBS Each Battery	
<b>10</b>	Impedance at 1000Hz.	≤50mΩ	
<b>11</b>	Charge method	Charge	30 - 140°F
		Discharge	-4 - 140°F
<b>12</b>	Storage environment	Temperature	50 - 113°F
		Humidity	≤ 75%RH
<b>13</b>	Cycle life	1C@DOD100%	≥2500 cycles
		0.2C@DOD100%	≥4000 cycles
<b>14</b>	Self-discharge rate	≤3%/Month	

15	Battery dimension	W= 10.75 IN
16	Bluetooth function	H= 10.39 IN Android telephone (system version must be higher than 4.3) or iPhone (system version must be higher than iPhone4S & iOS7), In the APP store install “ <b>Bolt USA</b> ” You will be able to read the voltage, SOC, etc. after connected properly.

### 3. Performance & Test Condition

No.	Project	Standard	Testing method
1	Rated capacity	210Ah	After a standard charge, discharge @0.5C current to the end of discharge voltage. Cycles for three times, one cycle capacity arrive standard, that's to say it is qualified. (The below as the same)
2	Charging storage ability in normal temperature	Rest Capacity $\geq$ Standard Capacity *97%	After standard charging, store at 77°F $\pm$ 41°F for 1 month and then discharge capacity @0.2C current to the end of discharge voltage, then measure the capacity of cell.
3	Cycle life	Capacity $\geq$ Standard Capacity *80%	After standard charge, discharge @0.2C current to the end of the discharge voltage. Rest for 1h, cycles for 4000 times.

4	Internal Impedance	≤50mΩ		At 50% SOC, 1kHz AC internal resistance test instrument.
5	Discharge temperature characteristic At 0.2C	-4°F (6h)	≥70%	Discharge Capacity at specified temperature/ capacity @ 77F
		32°F (6h)	≥90%	
		77°F (4h)	≥100%	
		131°F (4h)	≥97%	

#### 4. BMS technical parameters :

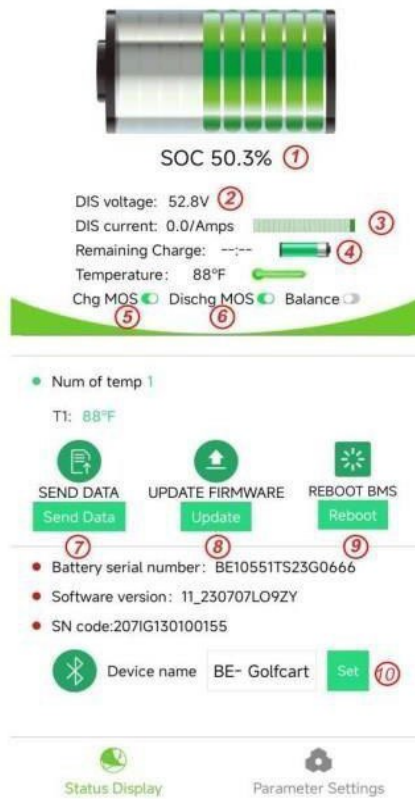
Bolt Energy USA battery is designed with an intelligent protection board solution, which can monitor the battery running status in real time. The protection board has a strong loading capacity, and the maximum discharge current can reach 1000A(30 secs). It provides protection against overcharge, over discharge, over current, over temperature, and many others. The battery power input and output are actively cut off for protection. Features are as follows:

- 23-cell each battery series protection.
  - Various protection functions for charging and discharging.
  - Hardware discharge over current, short circuit protection function processing.
  - Software over voltage, under voltage, temperature, overload protection function processing.
- Accurate SOC (state of charge) calculation with automatic learning SOC (state of charge) function.
- Hardware discharge over current, short circuit protection function processing.
  - With UART (universal asynchronous receiver-transmitter) communication, support for Bluetooth.

#### 5. Bluetooth APP interface

**App supports Apple and Android systems, supports English and dual language switching. When**

**Bluetooth signal is strong; it can be connected within 32 feet. In the APP store install “Bolt USA” You will be able to read the voltage, SOC, battery history record, send data to email for after sales ,service and updated firmware.**



- ① SOC Remaining battery %
- ② Discharge voltage
- ③ Discharge current
- ④ Remaining Charge
- ⑤ Charge MOS connect or disconnect
- ⑥ Discharge MOS connect or disconnect
- ⑦ SEND DATA: Send BMS DATA to chosen email for technical support.
- ⑧ UPDATE FIRMWARE: Fill in the firm-ware code and update to the new Software version.
- ⑨ REBOOT BMS: It will exit the APP for reboot when click this function.
- ⑩ Fill in the new name and click "Set" to make your own Device name

## 6. Storage and Transportation

- Proper environment for transportation protocols of the LiFePO4 battery pack need to be followed to protect the Battery and ensure it performs to manufacturer's specs.
- During transportation the Battery should be at 50% SOC to prevent short circuits if there is an accident reducing the risk of fire.
- Battery should be kept at 32°F - 113°F indoors where it's dry, clean, and well-ventilated. □ During the loading and transport of Battery, avoid dropping, turning over or stacking.

## 7. Warnings and Tips

- In order to prevent the Battery from leaking, overheating and potential explosion, it is vitally important to follow these instructions carefully! Failure to follow these warnings could result in fire, serious personal injury or death.
- Never throw the Battery into water or otherwise expose to water, keep it under dry, shady, and cool conditions.

- Never reverse the positive and negative post connection.
- Never connect the positive and negative posts of the Battery with unapproved wiring.
- Never ship or store the Battery together with metal that could contact the posts.
- Never knock, throw, or trample the Battery.
- Never drill, cut, puncture or bolt through the Battery case.



When working with the Battery, do not put wrenches or other metal objects across the Battery terminals. An arc can occur causing an explosion or fire at the Battery.



Always remove the negative (-) cable to a motor controller first and install it last. A spark can occur causing an explosion or fire at the battery.



Do not allow charging Battery to be immersed in water or liquids. Failure to follow this warning could result in fire, serious personal injury or death.



Do not attempt to open the Battery. Failure to follow this warning could result in fire, serious personal injury or death.



Install charging equipment in compliance with local regulations. Failure to follow this instruction could result in personal injury, death, or property damage.



Make sure any electrical outlet used for charging your Battery is properly grounded. Check with a qualified electrician if you are uncertain whether the electrical outlet is properly grounded. Do not modify the plug provided with the product if it does not fit in the outlet. Have a proper outlet installed by a qualified electrician.



It is recommended that electrical outlets for use with your charger be installed by a licensed, qualified electrician. To avoid serious injury or death, installation must comply with the provisions of the National Electric Code (NEC) and all local codes. In cases of conflict between local codes and the NEC, local codes shall take precedence.



Never use the charger with an extension cord longer than 15ft or rated below 12 AWG.



Shock hazard - make sure the plug is fully inserted into the wall outlet so that there are no exposed blade surfaces.



Children should be supervised when in the vicinity of the charger while plugged in.



Do not put fingers into the electric charge coupler or any electrical outlet.



Do not expose the charge cord to flammable vapors.



Be sure to have proper ventilation when charging batteries.

## **NOTICE!**

- Never use or keep the Battery under high temperatures. Otherwise, it will cause battery to heat, catch on fire, or lose some function and reduce the life. The necessary temperature for long-term storage is 32-113°F.
- Never throw the Battery into fire or a heating machine. This type of action could lead to fire, explosion, and environmental pollution; scrap Batteries should be returned to the supplier or handled by a qualified recycling station.
- Never use the Battery near strong static and strong magnetic fields, otherwise it will damage the BMS (Battery management system).
- If the Battery leaks and the electrolyte gets into your eyes, avoid touching your eyes, instead please wash eyes with water and seek emergency medical attention ASAP. Otherwise, it can cause eye damage.
- If the Battery emits an odor, excessive heat, or anything abnormal during use, storage, or charging, please disconnect the charger, turn the Battery switch to the off position and call Bolt Energy USA for immediate support, do not use the Battery.
- ONLY use the charger provided by Bolt Energy USA when charging.  
Check the voltage of Battery and relevant connectors before using. It cannot be used until everything is connected properly.
- Prior to charging, fully check to make sure the wires and surrounding insulation are intact. Make sure the charging cord is securely plugged in the AC wall outlet. Do not attempt to

charge if SOC meter is below 57.5V as this is abnormal, disconnected the charger, turn off the Battery, and contact Bolt Energy USA for immediate

□ support.

The Battery should be stored at 50%-70% SOC and must be charged once every 6 months to avoid severe discharge or damage not covered by warranty.

□

Clean dirty or corroded terminal posts with a clean dry cloth to prevent resistance, heat buildup, and potential damage to the Battery.

□

□ Never run Batteries in series. If you do, your warranty will be VOID.

Two of our Batteries in parallel will work and we recommend you seek proper installation guidance from Bolt Energy USA.

□

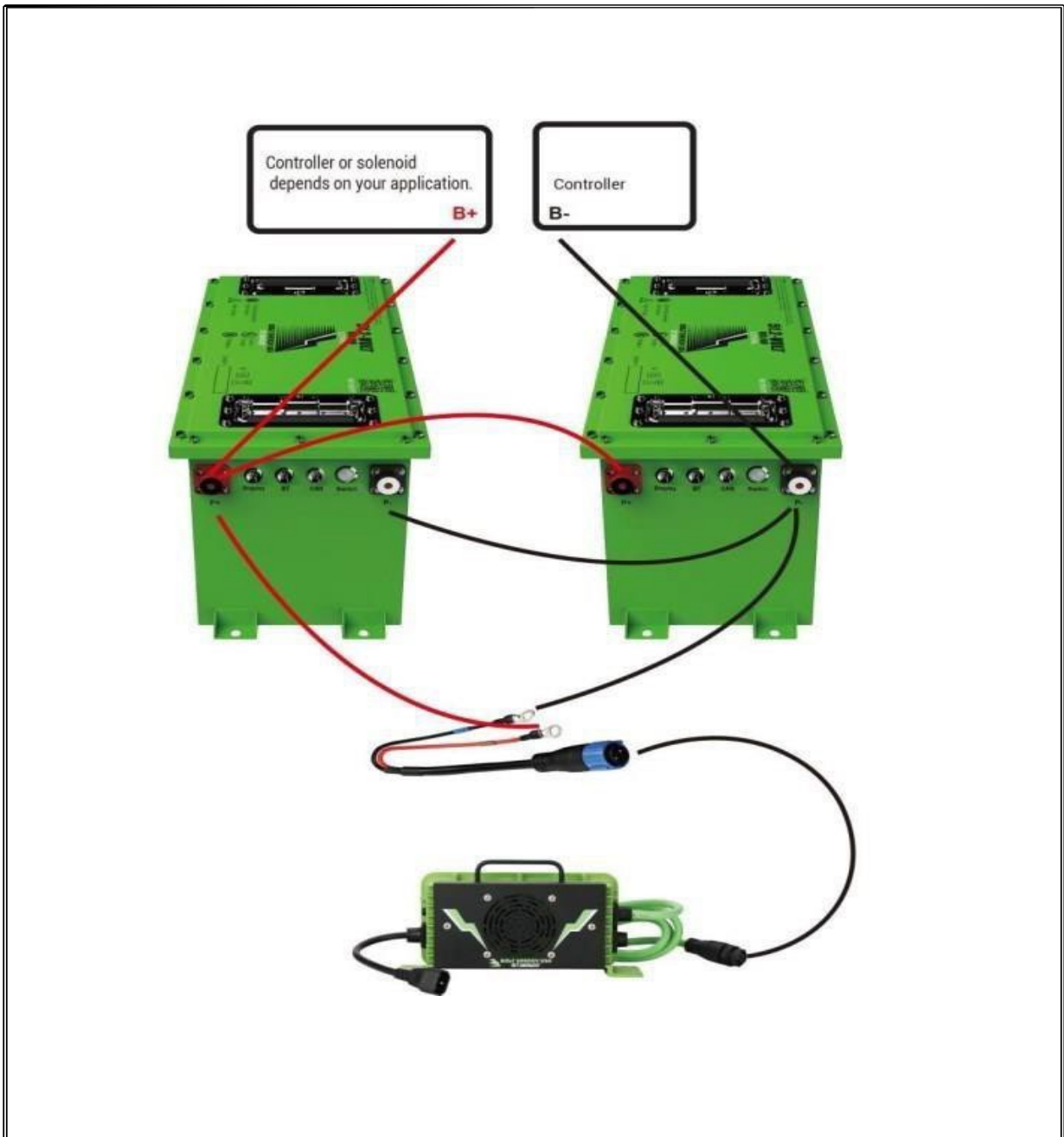
We do not recommend using our Products for anything not recommended by the original manufacturer of your Vehicle (Golf Cart, RV, Boat, Etc.). If you have intentions of making any modifications to the original Vehicle design or

□ specification, we highly recommend you first verify with the OEM of the Vehicle it is safe to do so.

Failure to follow these recommendations will VOID your Battery warranty.

#### **NON-TRANSFERABLE WARRANTY**

The Limited Warranty is to the original purchaser of the product and is not transferable to any other person or entity. Please Contact the place of purchase regarding any warranty claim. **The battery MUST be registered through our website with in 30 days of purchase @([www.boltenergyusa.com](http://www.boltenergyusa.com))**. If the battery is not purchased from a approved Bolt Energy USA dealer. there will be no warranty.



**IMPORTANT** charge battery to 100% before first use.

Congratulations, you have now been “Energized”

## **WARRANTY EXCLUSIONS**

Bolt Energy has no obligation under this Limited Warranty for Product subjected to the following conditions (including but not limited to):

- Damage due to improper installation; loose terminal connections, under-sized cabling, incorrect connections (series and parallel) for desired voltage and AH requirements, or reverse polarity connections.
- Environmental damage: inappropriate storage conditions as defined by the Manufacturer; exposure to extreme hot or cold temperatures, fire or freezing, or water damage.
- Damage caused by collision.
- Damage due to improper maintenance; under- or over-charging the Product, dirty terminal connections.
- Product that has been modified or tampered with
- Product that was used for applications other than which it was designed and intended for, including repeated engine starting.
- Product that was used on an over-sized inverter/charger without the use of a Manufacturer-approved current surge limiting device
- Product that was undersized for the application, including an Air Conditioner or similar device having a locked rotor startup current that is not used in conjunction with a Manufacturer-approved surge-limiting device.
- Product not stored in adherence to the Manufacturer’s storage guidelines, including storage of the Product at low state-of-charge.

This Limited Warranty does not cover a Product that has reached its normal end of life due to usage 3000 charge cycles, or above which may occur prior to the “Warranty Period”. A battery can deliver only a fixed amount of Energy over its life which will occur over different periods of time depending on the application. For example, cycling the battery more than 1 time daily will cause the normal end of life to occur before the end of the Warranty Period. This warranty does not cover normal performance drop overtime.

Bolt Energy reserves the right to deny a warranty claim if the Product is determined, upon inspection, to be at its normal end of life even if within the Warranty Period.

## **WARRANTY RETURNS**

In the event buyer's battery needs to be returned to Bolt Energy USA for any reason, it must be shipped in an approved lithium-ion hazardous materials UN3480 box with all the proper labels and packaging. Bolt Energy USA recommends customer.

to fully insure any return shipment in the case of loss or damage in transit. Customer/dealer shall use a carrier that provides tracking and proof of delivery. Bolt Energy USA can help customers.

with arranging return shipping for a fee. Any shipment which arrives damaged or without an RMA will be refused or held at Bolt Energy USA for customer/dealer to file a claim if needed.

Shipping to BOLT ENERGY USA for diagnosis, repair or replacement but not limited to will always be the customer's responsibility. If BOLT ENERGY USA has deemed the warranty claim to be valid, BOLT ENERGY USA will pay the return shipping to the customer for the full 10 years.

## **WARRANTY DISCLAIMER**

Bolt Energy's exclusive liability for breach of any warranty on the Battery shall be to replace the Battery within the warranty period in accordance with the terms of this limited warranty. In no event shall Manufacturer be liable for any loss or damages of any other kind, whether direct, incidental, consequential including lost profits, exemplary, special, or otherwise, including any lost profits or removal, shipping, or installation expenses.

## **LIFETIME TECHNICAL SUPPORT**

All customers covered under this warranty shall receive lifetime technical support, including advice on charging, use, storage, and general questions about BOLT ENERGY USA batteries. Technical support is available for as long as the customer owns and is using the BOLT ENERGY USA battery and may be longer than the 10-year warranty period. Technical support is available at:

INFO@BOLTENERGYUSA.COM.

## **NON-WARRANTY REPAIRS**

Bolt Energy USA will do everything in their means to support their products after the warranty period has expired whenever possible. Customer/dealer costs will include shipping, parts, and labor. Call Bolt Energy USA (727-955-4955). The battery may be required to be shipped back to Bolt Energy USA. An RMA (Return Merchandise Authorization) must be obtained from Bolt Energy USA before any products can be returned. Any battery that arrives without an RMA will be refused and all shipping charges will be the sole responsibility of the customer. The RMA must be clearly marked on the outside of the shipment, or it will be refused. Once the buyer has obtained an RMA, all warranty shipments should be shipped to:

Bolt Energy USA

6650 Treeland Ave Largo, Florida 33773

1. For all returns or warranty claims contact [INFO@BOLTENERGYUSA.COM](mailto:INFO@BOLTENERGYUSA.COM) The best battery and warranty on the planet:
  - A. Bolt Energy USA always uses premium grade materials and craftsmanship. Bolt Energy USA has completed 1000's of hours of R&D (research and development) to build the most quality, performance energy storage products in the industry. We continue to always stay ahead of the market curves so we can continue to bring you the best. R&D is our ongoing commitment to our customers to be the best.
  - B. BOLT ENERGY USA offers a 10-year manufacturer's defect warranty from the date of purchase. The average lifespan of a BOLT ENERGY USA LiFePO4 battery is 3000 recharge cycles, or approximately 8-12 years with regular use that is appropriate to what the battery is designed for (see the specifications of the battery). This warranty does not cover negligence or misuse of the battery or normal wear and tear. If BOLT ENERGY USA deems the battery accessories were used improperly, this warranty will be voided.
  - C. To submit a warranty claim, please contact the original place of purchase. The battery may be required to be shipped back to BOLT ENERGY USA for a complete inspection.
2. 1 year warranty on all accessories & complimentary products (chargers, cables, SOC (state of charger meter), Solenoids, voltage reducers, etc.).
  - A. The warranty only applies to the original owner (non-transferable).
  - B. If you have any issues with our products, please contact your place of purchase. If you need additional help, contact us at [INFO@BOLTENERGYUSA.COM](mailto:INFO@BOLTENERGYUSA.COM)

## 10-year Limited Warranty

Bolt Energy USA warrants each Bolt Energy LiFePO4 Lithium battery to be free of manufacture defects for a period of **10-years** ("Space for the Warranty Period") from the shipment date determined by the battery serial number and or invoice from purchase date.

As listed below BOLT ENERGY USA'S prorated description of our 10-year limited warranty. The warranty described is exclusively written for BOLT ENERGY USA. All repairs or replacements will always be at the sole discretion of BOLT ENERGY USA.

**1-year** on all accessories & complimentary products (chargers, cables, SOC (state of charger meter), Solenoids, voltage reducers, etc.)

Year	From original purchase date (MONTHS)	10-YEARS TOTAL WARRANTY PERIOD	TOTAL OUT OF POCKET REPAIR/REPLACE <i>BE10551M BE10551T</i>	TOTAL OUT OF POCKET REPAIR/REPLACE <i>BE16051B</i>	TOTAL OUT OF POCKET REPAIR/REPLACE <i>BE10572P</i>	TOTAL OUT OF POCKET REPAIR/REPLACE <i>BE10538M</i>
5	0-59	119 MONTHS	\$0	\$0	\$0	\$0
6	60 - 71	119 MONTHS	\$1,595	\$2,095	\$2,095	\$1,095
7	72 - 83	119 MONTHS	\$1,695	\$2,195	\$2,195	\$1,195
8	84 - 95	119 MONTHS	\$1,795	\$2,295	\$2,295	\$1,295
9	96 - 107	119 MONTHS	\$1,895	\$2,395	\$2,395	\$1,395
10	108 - 119	119 MONTHS	\$2,095	\$2,595	\$2,595	\$1,595

### NON-TRANSFERABLE

This Limited Warranty is to the original purchaser of the Product and is not transferable to any other person or entity. Please contact the place of purchase regarding any warranty claim. The battery **MUST** be registered through our

website within 30 days of purchase ([boltenergyusa.com](http://boltenergyusa.com)). If battery isn't purchased from an approved Bolt Energy USA dealer. There will be no warranty.

## **WARRANTY EXCLUSIONS**

Bolt Energy has no obligation under this Limited Warranty for Product subjected to the following conditions (including but not limited to):

- Damage due to improper installation; loose terminal connections, under-sized cabling, incorrect connections (series and parallel) for desired voltage and AH requirements, or reverse polarity connections
- Environmental damage: inappropriate storage conditions as defined by the Manufacturer; exposure to extreme hot or cold temperatures, fire or freezing, or water damage
- Damage caused by collision
- Damage due to improper maintenance; under- or over-charging the Product, dirty terminal connections
- Product that has been modified or tampered with
- Product that was used for applications other than which it was designed and intended for, including repeated engine starting
- Product that was used on an over-sized inverter/charger without the use of a Manufacturer-approved current surge limiting device
- Product that was under-sized for the application, including an Air Conditioner or similar device having a locked rotor startup up current that is not used in conjunction with a Manufacturer-approved surge-limiting device.
- Product not stored in adherence to the Manufacturer's storage guidelines, including storage of the Product at low state-of-charge.

This Limited Warranty does not cover a Product that has reached its normal end of life due to usage 3000 charge cycles or above which may occur prior to the "Warranty Period". A battery can deliver only a fixed amount of Energy over its life which will occur over different periods of time depending on the application. For example, cycling the battery more than 1 time daily, will cause the normal end of life to occur before the end of the Warranty Period. This warranty does not cover normal performance drop over time.

Bolt Energy reserves the right to deny a warranty claim if the Product is determined, upon inspection, to be at its normal end of life even if within the Warranty Period.

## **WARRANTY RETURNS**

In the event buyer's battery needs to be returned to Bolt Energy USA for any reason, it must be shipped in an approved lithium-ion hazardous materials UN3480 box with all the proper labels and packaging. Bolt Energy USA recommends customer/dealer to fully insure any return shipment in the case of loss or damage in transit. Customer/dealer shall use a carrier that provides tracking and proof of delivery. Bolt Energy USA can help customer/dealer with arranging return shipping for a fee. Any shipment which arrives damaged or without an RMA will be refused or held at the Bolt Energy USA for customer/dealer to file a claim if needed. BOLT ENERGY USA suggest storing your box/crate that your products arrived in. This will help you if their return warranty claim. Customer can request "BEUSA" to send a crate/box to return battery back to them for a warranty. There will be a crate charge of \$150.00 plus the freight to customer.

Shipping to BOLT ENERGY USA for diagnoses, repair or replacement but not limited to will always be the customers responsibility. If BOLT ENERGY USA has deemed the warranty claim to be valid, BOLT ENERGY USA will pay the return shipping to the customer for the full 10 years.

### **WARRANTY DISCLAIMER**

Bolt Energy's exclusive liability for breach of any warranty on the Battery shall be to replace the Battery within the warranty period in accordance with the terms of this limited warranty. In no event shall Manufacturer be liable for any loss or damages of any other kind, whether direct, incidental, consequential including lost profits, exemplary, special, or otherwise, including any lost profits or removal, shipping, or installation expenses.

### **LIFETIME TECHNICAL SUPPORT**

All customers covered under this warranty shall receive lifetime technical support, including advice on charging, use, storage, and general questions about BOLT ENERGY USA batteries. Technical support is available for as long as the customer owns and is using the BOLT ENERGY USA battery and may be longer than the 10-year warranty period. Technical support is available at: [INFO@BOLTENERGYUSA.COM](mailto:INFO@BOLTENERGYUSA.COM).

### **NON-WARRANTY REPAIRS**

Bolt Energy USA will do everything in their means to support their products after the warranty period has expired whenever possible. Customer/dealer costs will include

shipping, parts, and labor. Call Bolt Energy USA (727-955-4955) The battery may be required to be shipped back to Bolt Energy USA. An RMA (Return Merchandise Authorization) must be obtained from Bolt Energy USA before any products can be returned. Any battery that arrives without an RMA will be refused and all shipping charges will be the sole responsibility of the customer. The RMA must be clearly marked on the outside of the shipment, or it will be refused. Once buyer has obtained an RMA, all warranty shipments should be shipped to:

Bolt Energy USA

6650 Treeland Ave Largo, Florida 33773

### **Our unapparelled 10-year warranty on all our batteries.**

1. For all returns or warranty claims contact [INFO@BOLTENERGYUSA.COM](mailto:INFO@BOLTENERGYUSA.COM)

The best battery and warranty on the planet:

- A. Bolt Energy USA always uses premium grade materials and craftsmanship. Bolt Energy USA has completed 1000's of hours of R&D (research and development) to build the most quality, performance energy storage products in the industry. We continue to always stay ahead of the market curves so we can continue to bring you the best. R&D is our ongoing commitment to our customers to be the best.
  - B. BOLT ENERGY USA offers a 10-year manufacturers defect warranty from the date of purchase. The average lifespan of a BOLT ENERGY USA LiFePO4 battery is 3000 recharge cycles, or approximately 8-12 years with regular use that is appropriate to what the battery is designed for (see the specifications of the battery). This warranty does not cover negligence or misuse of the battery or normal wear and tear. If BOLT ENERGY USA deems the battery accessories were used improperly, this warranty will be voided.
  - C. To submit a warranty claim, please contact the original place of purchase. The battery may be required to be shipped back to BOLT ENERGY USA for a complete inspection.
2. 1 year warranty on all accessories & complimentary products (chargers, cables, SOC (state of charger meter), Solenoids, voltage reducers, etc).
    - A. Warranty only applies to original owner (non-transferable).
    - B. If you have any issues with our products, please contact your place of purchase. If you need additional help, contact us at [INFO@BOLTENERGYUSA.COM](mailto:INFO@BOLTENERGYUSA.COM)