

A SERIES

Golf Cart Owner's Manual



WUXI HIO SPECIAL VEHICLE CO.,LTD.

INTRODUCTION

HiOEV

ELECTRIC GOLF CART

A SERIES GOIF CAR

Thank you for your purchase of a HiOEV electric vehicle. Prior to operation, please thoroughly read this Owner's Manual. Please note that some items are optional accessories and may not be installed on your vehicle from the factory.

This manual includes important safety and maintenance information that is crucial to ensure the safe operation of your vehicle. Most maintenance can be performed with common automotive hand tools; otherwise, contact your nearest dealer/service provider.

Vehicle warranty information is appended to this manual. For warranty service, please contact your original dealer or another local authorized HiOEV dealer. Dealers can be located using the HiOEV website.

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VEHICLE SPECS

ELECTRIC GOLF CART

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A2

L/W/H(without Side Mirror)(mm)	2425mm/1180mm/1780mm
Wheel Track Width(Iron Rim)/Front-Rear(mm)	880mm/960mm
Wheel Track Width(8" Aluminum Rim)/Front/Rear(mm)	885mm/970mm
Wheel Track Width(10" Aluminum Rim)/Front/Rear(mm)	900mm/990mm
Wheelbase(mm)	1673mm
Minimum Ground Clearance(mm)	120mm
Minimum Turning Radius(m)	2.9m

A2+CSA

L/W/H(without Side Mirror)(mm)	2655mm/1180mm/1780mm
Wheel Track Width(Iron Rim)/Front-Rear(mm)	880mm/960mm
Wheel Track Width(8" Aluminum Rim)/Front/Rear(mm)	885mm/970mm
Wheel Track Width(10" Aluminum Rim)/Front/Rear(mm)	900mm/990mm
Wheelbase(mm)	1673mm
Minimum Ground Clearance(mm)	120mm
Minimum Turning Radius(m)	2.9m

A2 Plus

L/W/H(without Side Mirror)(mm)	2715mm/1190mm/1905mm
Wheel Track Width(Iron Rim)/Front-Rear(mm)	880mm/960mm
Wheel Track Width(8" Aluminum Rim)/Front/Rear(mm)	885mm/970mm
Wheel Track Width(10" Aluminum Rim)/Front/Rear(mm)	900mm/990mm
Wheelbase(mm)	1673mm
Minimum Ground Clearance(mm)	120mm
Minimum Turning Radius(m)	2.9m

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A4

L/W/H(without Side Mirror)(mm)	3190mm/1190mm/1865mm
Wheel Track Width(Iron Rim)/Front-Rear(mm)	880mm/960mm
Wheel Track Width(8" Aluminum Rim)/Front/Rear(mm)	885mm/970mm
Wheel Track Width(10" Aluminum Rim)/Front/Rear(mm)	900mm/990mm
Wheelbase(mm)	2453mm
Minimum Ground Clearance(mm)	120mm
Minimum Turning Radius(m)	4.0mm

A4+CSA

L/W/H(without Side Mirror)(mm)	3740mm/1190mm/1900mm
Wheel Track Width(Iron Rim)/Front-Rear(mm)	880mm/960mm
Wheel Track Width(8" Aluminum Rim)/Front/Rear(mm)	885mm/970mm
Wheel Track Width(10" Aluminum Rim)/Front/Rear(mm)	900mm/990mm
Wheelbase(mm)	2453mm
Minimum Ground Clearance(mm)	120mm
Minimum Turning Radius(m)	4.0m

A4 Plus

L/W/H(without Side Mirror)(mm)	3500mm/1190mm/1900mm
Wheel Track Width(Iron Rim)/Front-Rear(mm)	880mm/960mm
Wheel Track Width(8" Aluminum Rim)/Front/Rear(mm)	885mm/970mm
Wheel Track Width(10" Aluminum Rim)/Front/Rear(mm)	900mm/990mm
Wheelbase(mm)	2453mm
Minimum Ground Clearance(mm)	120mm
Minimum Turning Radius(m)	4.0m

VEHICLE SPECS (CONT'D)

ELECTRIC GOLF CART

A SERIES GOIF CAR

A6

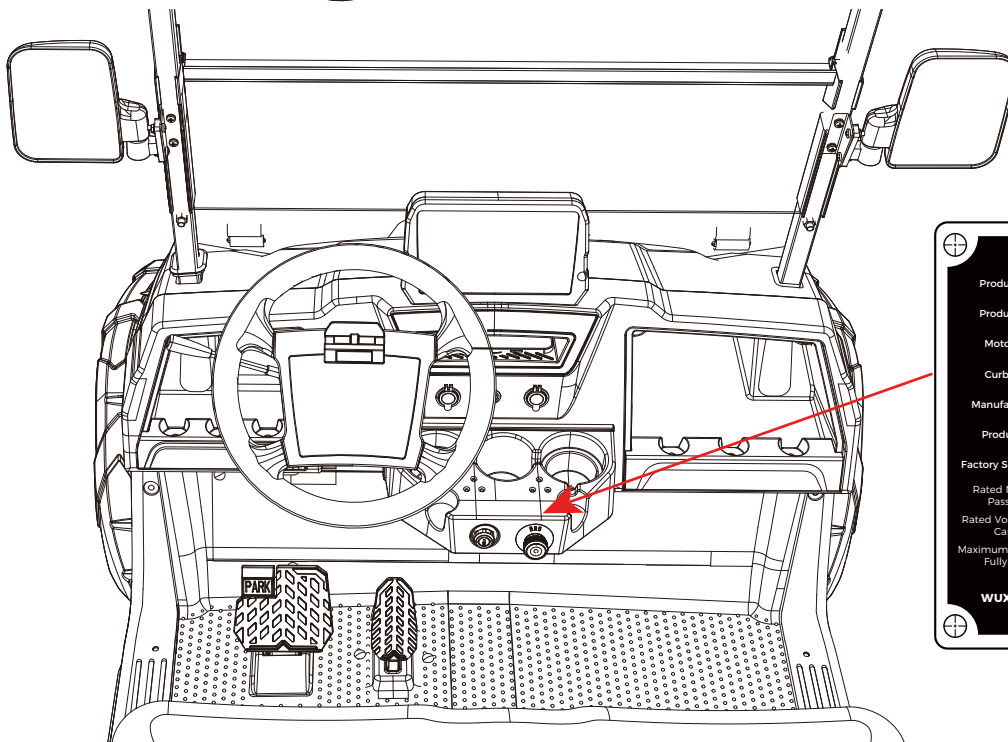
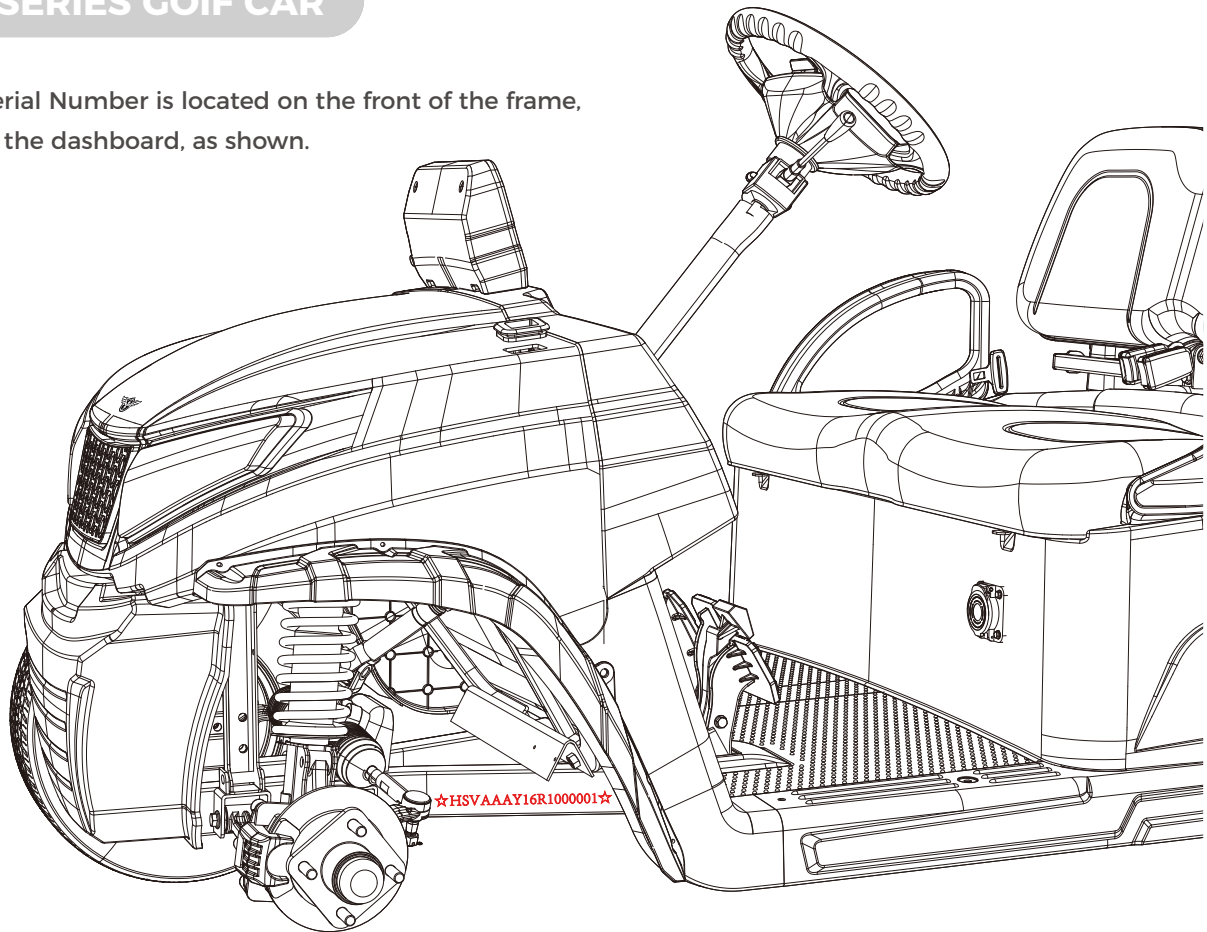
L/W/H(without Side Mirror)(mm)	3960mm/1190mm/1890mm
Wheel Track Width(Iron Rim)/Front-Rear(mm)	880mm/960mm
Wheel Track Width(8" Aluminum Rim)/Front/Rear(mm)	885mm/970mm
Wheel Track Width(10" Aluminum Rim)/Front/Rear(mm)	900mm/990mm
Wheelbase(mm)	3240mm
Minimum Ground Clearance(mm)	120mm
Minimum Turning Radius(m)	5.0mm

A6 Plus

L/W/H(without Side Mirror)(mm)	4275mm/1190mm/1900mm
Wheel Track Width(Iron Rim)/Front-Rear(mm)	880mm/960mm
Wheel Track Width(8" Aluminum Rim)/Front/Rear(mm)	885mm/970mm
Wheel Track Width(10" Aluminum Rim)/Front/Rear(mm)	900mm/990mm
Wheelbase(mm)	3240mm
Minimum Ground Clearance(mm)	120mm
Minimum Turning Radius(m)	5.0m

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The Serial Number is located on the front of the frame, under the dashboard, as shown.



Product Name:	_____
Product Model:	_____
Motor Power:	_____
Curb Weight:	_____
Manufacture Date:	_____
Product Code:	_____
Factory Serial Number:	_____
Rated Number of Passengers:	_____
Rated Voltage/Battery Capacity:	_____
Maximum Speed When Fully Loaded:	_____
WUXI HIO SPECIAL VEHICLE CO., LTD	

IMPORTANT NOTICES

ELECTRIC GOLF CART

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This vehicle is designed for off-highway use in compliance with the safety standards for golf cars. It is not equipped from the factory with systems required by automotive industry safety standards (including but not limited to FMVSS 571.500 low-speed vehicle or LSV standard) for use on public streets and highways. All applicable local and federal laws for on-road use must be followed by the end user, including the addition of all necessary equipment for legal street use. Under US Federal law, vehicles modified to operate at or in excess of 20mph, but not more than 25 MPH, become LSVs and must adhere to FMVSS 571.500. Pursuant to this standard, the dealer or customer who makes these modifications must affix a Vehicle Identification Number and is required to register or title the vehicle per state laws. The Company is not liable for any illegal use of this vehicle.

Important safety precautions will be noted by the below symbols. This manual should be read in its entirety before attempting to operate or service the vehicle. **The Owner's Manual must always stay with the vehicle.**



The **CAUTION** symbol indicates conditions that can cause minor bodily injury.



The **WARNING** symbol indicates conditions that may cause serious injury or death.



The **DANGER** symbol indicates conditions that will cause significant harm or death to persons and/or assets.

A SERIES GOIF CAR



-
- **RISK OF ELECTRIC SHOCK.** Ensure the charger AC cord is connected to a properly grounded outlet. Always disconnect charger AC plug before servicing vehicle.
 - Ensure all battery connections are tight, making good contact, and are free of corrosion. Poor electrical contact can generate heat and create a fire hazard.
 - Never attempt to disassemble, modify, or service the Lithium-Ion battery or charger. No user serviceable parts are inside. Improper service can result in explosion, fire, or electrical shock. Contact The Company Technical Support for assistance if the battery or charger is not working properly.
 - This vehicle does not provide protection from major weather hazards such as lightning or high winds/flying debris. Seek immediate shelter if caught in a storm.



-
- Batteries placed in this vehicle may release explosive gases. To reduce risk of fire, keep away from sparks and/or flames. Always charge vehicle on a non-combustible surface such as concrete.
 - Keep vehicle well ventilated during charging. Do not attempt to operate vehicle while charger cord is connected.
 - Only qualified technicians should service vehicles. Anyone performing service should be experienced in electrical and mechanical repairs. Always wear proper safety equipment when servicing the vehicle, including but not limited to safety goggles and gloves.
 - Use insulated tools when making or removing battery connections.

ELECTRIC GOLF CART

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Any modification to the vehicle that affects stability, handling, or increases speed beyond factory specifications can cause severe injury or death. Modifications may void vehicle warranty.

Place run/tow switch into TOW position prior to servicing the vehicle. When servicing the vehicle, make sure the key is in OFF position and chock the wheels. Use jack stands if the vehicle is raised. Getting under a vehicle supported by an unstable jack or jack stands may lead to serious injury or death.

Ensure vehicle warning labels are in place. If transferring ownership of the vehicle, provide this manual to the new owner. Contact your dealer for replacements if necessary.

Always review the vehicle per the operation checklist prior to driving. If any checks are failed, **DO NOT OPERATE THE VEHICLE** prior to repairing the issue.

DURING OPERATION

- Drivers must have a valid driver's license. Operate only in designated areas in accordance with local, state/province, and/or national law.
- Always drive at a speed consistent with terrain and weather conditions.
- When going up or downhill, if possible, drive straight up or down the hill, not crossways. Never drive crossways on a grade sharper than 14%.
- Sudden stops or change of direction can lead to a loss of control.
- Never allow more passengers than the vehicle is designed to have (two people per bench seat maximum).
- Never leave children unattended with the vehicle. Remove the key when exiting the vehicle.
- When backing up, check all directions and drive slowly and carefully. Never disconnect the reverse alarm.
- Never operate the vehicle under the influence of alcohol or drugs of any kind. Serious injury or death may occur.

A SERIES GOIF CAR

⚠ WARNING ⚠


- ▶ **EXCEPT WHERE PERMITTED BY LAW:**
NEVER drive on public roads. Drivers must possess a valid drivers license in accordance with local state law.
- ▶ **AVOID FALLS FROM THE VEHICLE:**
Do not start moving until all occupants are PROPERLY SEATED and HOLDING ON. KEEP entire body INSIDE VEHICLE while moving.
- ▶ **THIS VEHICLE IS NOT A TOY:**
Drive responsibly. NEVER leave children unattended or allow children to play on the vehicle. NEVER leave the key in the vehicle when parked.

⚠ WARNING ⚠

DO NOT DISASSEMBLE CHARGER. SERVICE SHOULD BE PERFORMED ONLY BY QUALIFIED PERSONNEL.

This charger should be used only in a well-ventilated area out of direct sunlight. Avoid use in high temperature environments. To reduce risk of burns, do not touch charger during operation. Do not expose the charger to water or rain. If charger indicator light indicates a fault, unplug charger and refer to owner's guide for troubleshooting.

⚠ WARNING ⚠

Green LED flashes during charging.  Green LED is steady on after battery fully charged.

⚠ WARNING ⚠

RUN ● TOW

- Switch the toggle switch to "TOW" while towing, performing maintenance, or extended storage.
- Always toggle the switch to "TOW" when connecting or disconnecting the battery. Failure to do so may damage the battery or cause fire or explosion which may result in injury or death.
- Any unapproved modifications to the controller or electrical system will render vehicle warranty void and may cause fire, injury or death.

⚠ WARNING ⚠

Windshield does not provide protection from golf balls or other flying objects.



⚠ WARNING ⚠

Failure to follow these instructions may result in SERIOUS INJURY or DEATH

- **BEFORE OPERATING:** Thoroughly read owner's guide and safety labels.
- **SAFE OPERATION:** Turn the key to the desired direction of travel (D-Driving or R-Reverse). Release the parking brake by slowly pressing the accelerator pedal. Always come to a complete stop before changing the direction selector. Never drive vehicle under the influence of alcohol or drugs.
- **PARKING:** On vehicles equipped with a mechanical parking brake, ensure that parking brake is engaged before leaving vehicle. Turn key to the OFF position and remove from the ignition before leaving the vehicle. NEVER use vehicle's hill hold function in lieu of parking brake.
- **MAINTENANCE:** This vehicle requires periodic maintenance (see owner's guide). Only qualified personnel should perform service tasks using approved parts.
- **DO NOT OVERLOAD this vehicle:** See owner's guide for weight capacity.
- **DO NOT MODIFY this vehicle:** Only authorized HIO dealers should alter vehicle using approved parts. Unapproved modifications can create unsafe conditions increasing the chance for injury.
- **TOWING:** If vehicle must be towed, refer to owner's guide for instructions.

PRE-OPERATION CHECKLIST

ELECTRIC GOLF CART

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With the key in the OFF position, perform the below checks prior to operation. Failure to ensure the key is OFF may lead to severe injury, death, and/or property damage. For checks requiring the key to be on, be ready to turn off and/or press the brake pedal if unexpected movement occurs.

ACCELERATOR

- Check operation of accelerator pedal for smooth travel when pressing and releasing.

BATTERIES

- Ensure battery connections and tie down bolts are tight.
- For lead-acid batteries, ensure there is no corrosion.

BRAKES

- Check operation of the brake pedal for smooth travel when pressing and releasing.
- Press the brake pedal several times to ensure the pedal is firm throughout its travel.
- Check for appropriate brake fluid level in the master cylinder reservoir under the seat.
- Make sure the park brake releases by powering the car on and lightly pressing accelerator pedal. Turn off key and ensure the brake locks again (audible click should be heard).

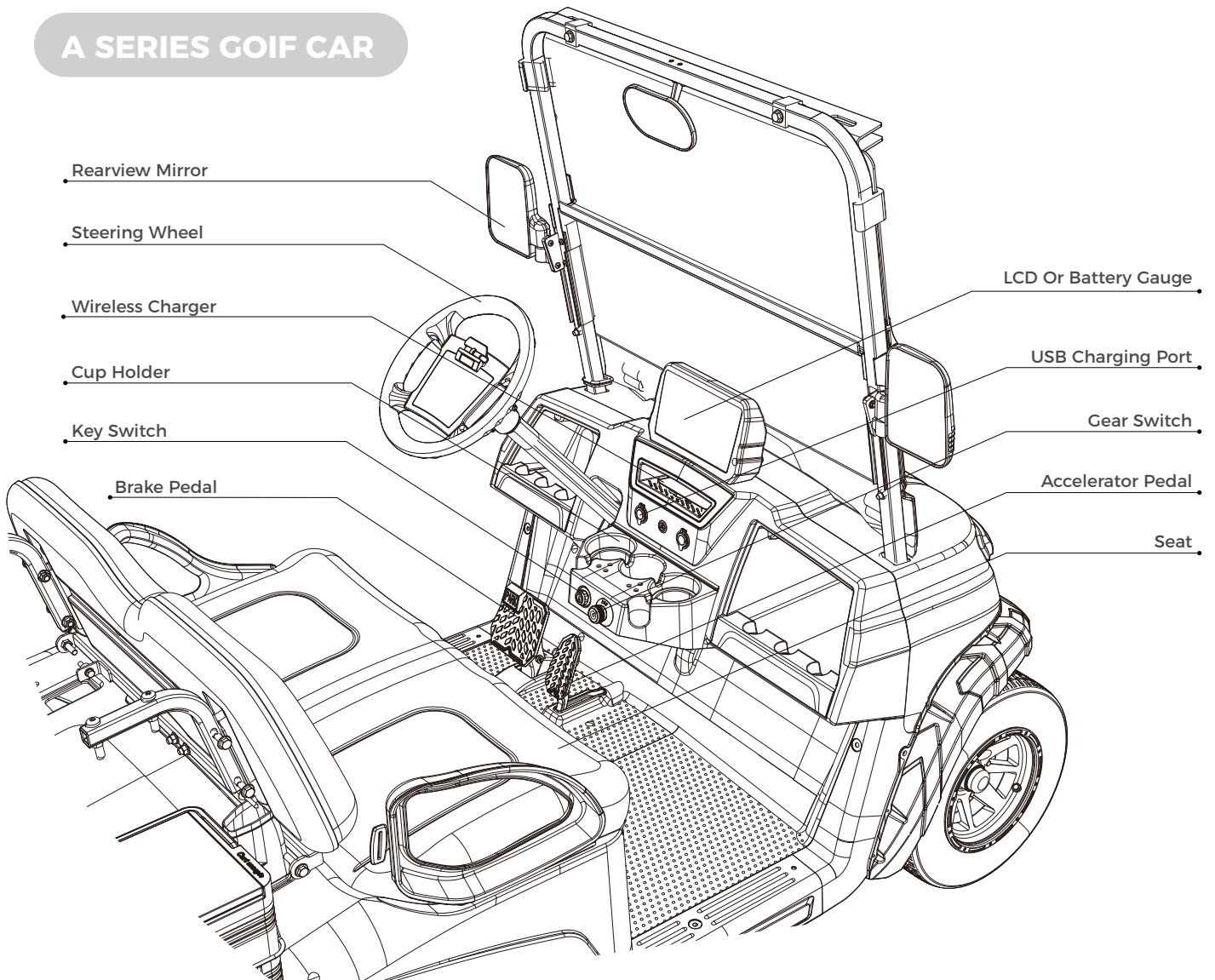
REVERSE ALARM

- Turn the ignition ON and turn the RND knob to "R". The reverse alarm should sound.
- Check for abnormal free play in the steering wheel by moving the steering wheel slightly left to right.

TIRES

- Check tire air pressure per the tire sidewall or manufacturer recommendation. Typical golfcar tires should be between 20-22 psi.
- Check tread for excessive/uneven wear, deformation, or punctures.
- Verify all 4 tires are wearing evenly.

A SERIES GOIF CAR

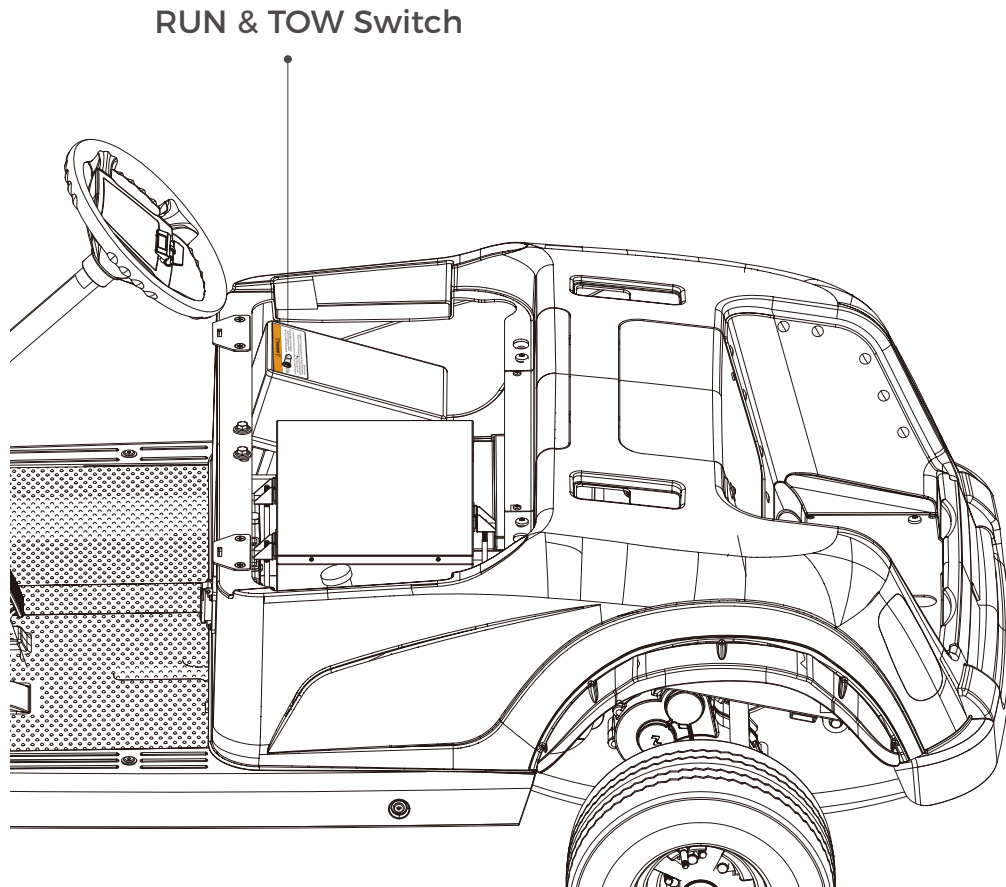


OPERATING THE VEHICLE

- After performing all pre-drive checks, ensure that the vehicle park brake is engaged and the Run/Tow switch underneath the passenger side of the front seat is in the Run position.
- Insert the key into the ignition and turn it ON. Turn the RND knob to D for forward or R for reverse.
- Slowly press the accelerator pedal and begin driving.
- When stopping or slowing down, slowly release the accelerator pedal, then slowly apply the brake pedal as needed. Always come to a complete stop and press and hold the brake pedal before changing from forward and reverse directions.
- When steering, slow down as necessary to safely make the turn. Turning too sharply may cause a loss of control.

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SETTING PARK BRAKE

- Bring the vehicle to a complete stop, then turn the key to OFF.

RUN/TOW SWITCH

- Turn the key to "OFF" position.
- Flip open the seat and switch the controller to "TOW" position. Now it is safe to tow the vehicle. The motor and rotating parts will be free from damage.

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ALWAYS wear safety goggles and rubber gloves when performing battery maintenance. Battery acid may burn the skin and/or clothing. Keep sparks away and never smoke while working near batteries.

- Ensure cable connections are tight 95-105 in-lb (10.7-11.9 N-m) and not corroded.
- Do not over-tighten battery connections. This can damage or destroy the battery posts.
- NEVER allow a direct short of an individual battery's posts. This can cause sparks, fire or an explosion.
- Batteries will self-discharge over time if left unused (typically 13% discharge per month at 25°C/75°F). Before putting the vehicle in storage, fully charge the battery and move the Run/Tow switch to TOW.
- When replacing batteries, it is recommended to replace the entire set and use all batteries of the same model.

ELECTRIC GOLF CART

SAFETY WARNING

Please read the operating instructions carefully before use, and follow detailed safety instructions to reduce any risk:

- To reduce the risk of a fire, install the battery system while the vehicle is on the surface of non-flammable materials, such as brick, concrete or metal.
- Do not throw the battery system into a fire, or place it in a high temperature environment, or expose it to the sun for long lengths of time.
- To prevent the risk of electric shock, do not immerse the battery system in water or flush with water.
- To prevent the risk of electric shock, do not disassemble the battery. Should you have any questions about the battery please contact the supplier. Otherwise, the battery system supplier may no longer fulfill the warranty terms.
- To prevent the risk of electric shock, do not short-circuit or reverse-connect the two ends of an uninsulated battery.
- Do not place the battery in an environment with high static electricity or strong radiation.
- The battery system should not be used in environments that have corrosive elements, explosives, insulation-destroying gases or conductive dust
- Please disconnect and stop charging the battery immediately and check the plug area if there is any peculiar smell, smoke, overheating, etc. in the charging process.

Please read and follow the instructions carefully to ensure the long-term safe and reliable operation of your battery system:

- In order to ensure the safety of the battery and guarantee the battery life, please only use the charger which is provided or recommended by the supplier to charge the battery.
- Do not pull out the socket or start the vehicle in the charging process.
- It is recommended to stop charging If there is extreme weather such as thunderstorms.
- Low battery power will affect the use of the battery, especially in a low temperature environment, timely charging is best for the battery's life.
- Low battery power reminder (indicator light on red or yellow), it is best to look for the nearest charging station and recharge the battery to ensure the battery.

INSTALL THE APP

Download and install the Olelon BATTERY"APP to check for more battery information by scanning the following QR codes.



Android



iOS



A SERIES GOIF CAR

OPERATING INSTRUCTIONS

- First, tightly connect the charger output plug or ring terminals to the battery pack, then firmly connect the AC plug with the AC outlet. Once connected, the red charger light will begin to flash. The green light turns on after it finishes charging. Then you can disconnect the plug between the charger and the AC outlet.
- Before using the charger, make sure the AC voltage and frequency are in the range specified. Match the charger and battery pack: **There is applied battery specifications on the "Basic Parameters" label on the charger side.** Please confirm the battery type (flooded lead-acid batteries, sealed maintenance-free batteries, lithium batteries, nickel metal hydride batteries, nickel-cadmium battery, etc.), the battery capacity (AH) and battery pack rated voltage (V) match those on the "Basic Parameters" label. If they do not match, it is likely to charge less or over charge and could cause permanent damage to the battery pack.
- The AC input wire is at the rear of the charger. L, N and ground are marked on the input line plug. Please distinguish them correctly. L, N, and ground on the AC plug should correspond with those of the socket outlet. The ground wire on the AC input socket should be connected firmly to the ground contact, otherwise the shell could be compromised and could easily cause shock or injury. The charging output line is in front of the charger. You can distinguish the positive and negative of the output lines by color. The red or brown lines are to battery "+" and blue or black to battery "-" (except with special requirements of customers). Special connections depend on special charging plugs, sockets and user special requirements. The polarity of charging sockets should be consistent with the polarity of a charging plugs polarity, otherwise it cannot charge. Please check before using.

CHARGER CODES/MEANING (FLASHING LED)

TROUBLESHOOTING LED INDICATOR STATUS

LED CHARGE LEVEL INDICATIONS Lead Acid Charger/Lithium Charger	
	Green Light Flickering = Charging
	Steady, Solid Green Light = Full

Note: The charger indicator may be under the seat connected to the charger and can be installed to the customer's location of choice using a 7/8" bit to drill a mounting hole.

CHARGER CODES/MEANING (FLASHING LED)

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LED INDICATOR STATUS /FAULTS AND SOLUTIONS

Note: If any fault repeats after troubleshooting, contact tech support.

LED Indication Dash"=1 Sec Pause	Status or Fault Description Lead Acid & Lithium Charger	Solution
	No Load	Check connection between battery and charger, and confirm polarity is hooked up correctly. If error persists after verifying connection, contact tech support; battery voltage may be too low
	Over voltage or over current	Disconnect the charger from AC power. Wait a few minutes and plug in again
	Ambient temperature is too high or too low	Let charger and/or battery cool or raise temperature before trying to reconnect. Extra ventilation or heat may be necessary in some climates
	Charger overheating	Let charger cool before trying to reconnect
	Output under-voltage	Disconnect the charger from AC power. Wait a few minutes and plug in again
	Input AC abnormality	Check the AC cord plug and charger receptacle for good connection. If error persists, try charging from a different outlet or circuit;this fault can occur with dirty power
	Integrated fault - any one of the above-mentioned faults repeat five times.	Disconnect the charger from AC power. Reconnect AC cord and check for the above LED indications
	Full	N/A

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If the vehicle is disabled and towing is necessary, ALWAYS ensure that the parking brake is released and that the Run/Tow switch is switched to TOW. Otherwise, damage can occur to the motor, controller, or other electrical parts.

Frequency	Items Checked	
Weekly	Lead Acid Batteries	Check terminal cleanliness
	Battery Wires	Check torque on connections
	Accessories	Check any accessory mounts
Monthly	Check the above-mentioned items	
	Lead Acid Batteries	Wash with baking soda solution
	Braking System	Check cables and cable mounts
		Check operation of e-brake and verify the manual release bolts are in position.
Tires/Wheels	Check lug nuts for tightness	
Quarterly	Check the above-mentioned items	
	Pedal Box	Clean inside, check pedal operation
	Steering/Suspension System	Grease spindles and steering rack
		Check rack bellows and seal for leaks
	Check front toe-in	
Annually	Brakes	Check brake shoe thickness
	Wiring	Check and clean all connections
	Axle Nuts	Verify torque
Every 5 Years	Rear Differential	Replace fluid

ELECTRIC GOLF CART

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When properly maintained, this car will provide you with years of trouble-free service. Follow the recommended requirements for long-term vehicle storage. For more information on vehicle maintenance, please refer to page 18.

- The charger should not remain plugged in continuously throughout the storage period.
- Electrolyte levels will not be maintained throughout the storage period.

Immediately prior to storage:

- Ensure the vehicle is fully charged per the owner's manual.
- Turn the key switch to the OFF position, remove the key and leave the forward/ reverse switch in the NEUTRAL position during storage.
- Clean the battery packs, tops, and terminals using a battery acid neutralizer (1 cup baking soda per 1- gallon water). Check, clean, and treat battery terminal connections with a battery terminal protector spray.
- The windshield should be stored in the UPRIGHT position. Any bag protector or enclosure should be stored in the extended/down position to keep vinyl from cracking.
- Disconnect batteries per the owner's manual ensuring that the cables do not come into contact with a terminal.
- Check tire pressure and inflate to 20- 22 PSI or as called for on the tire sidewall.
- Perform all semi-annual lubrication.
- Thoroughly clean the front and rear body, seats, battery compartment, and underside of the vehicle. Make sure the storage facility has adequate ventilation.

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If this vehicle must be stored for a long period, please follow the long-term storage recommendations below and review the recommendations for lead-acid or lithium batteries as applicable. Following these recommendations will help reduce the chance of major maintenance being required when coming out of storage.

- The charger should not remain plugged in continuously through storage.
- Ensure battery pack is fully charged prior to disconnecting AC cord.
- Avoid storing in temperatures below freezing (32°F/0°C) or above 80°F (26°C)
- Check that tire pressure is between 20-22 psi, or as called for on tire side wall.
- Turn the key switch to OFF position, remove the key, and leave the forward/reverse knob in the N position.
- Leave the tow/run switch in RUN.
- Disconnect the main positive and negative terminals from the battery.
- Perform all semi-annual lubrication and other maintenance per the maintenance chart on page 18.
- Thoroughly clean the body, seats, battery compartment, and under carriage, especially when used in a salty environment (beach, salted roads, etc).
- If the e-brake has been manually disengaged for any reason, return it to normal operation.
- Chocking the wheels is recommended even with the e-brake engaged.
- Ensure any accessories connected to the golf car are turned off.

A SERIES GOIF CAR**1. Check Tire Pressure**

Use a tire pressure gauge to make sure your tires are properly inflated and then fill your tires with air as needed. To check your pressure, remove the valve stem cap, press the gauge head evenly onto the valve stem, use firm pressure so that the hissing sound stops. Remove the gauge and read the pressure. Compare this to your vehicle's recommended inflation pressure. Always check your tires while they are cold (after sitting for at least 3 hours or before you've driven 1 mile at moderate speed). Never bleed pressure from a hot tire. Typical pressures for most golf car tires should be between 20-22 psi.

2. Check Tread Depth

Check with tread depth gauge. If not available, the penny test can help.

3. Check Tire Condition

In addition to tread depth and inflation pressure, you should also inspect your tires for any damage or conditions that would warrant their replacement. Look at the tread and sidewalls for any cuts, scrapes, punctures, bulges, bumps or cracks. If any abnormalities are visible, have a tire service professional take a closer look. You also want to keep an eye on your tire's age. Depending on how much you drive each year, your tire's tread may last for years but just because the tread is not worn out does not mean that your tires don't need to be replaced. Industry standards recommend that tires be removed from service no more than ten (10) years after the date of manufacture.

4. Check Tire Age

Tire age can be determined by checking the side wall of the tire. Look for 4 numbers inside an oval or rectangle. The first two numbers indicate the week and the last two indicate the year the tire was manufactured. Even if the tire's condition and tread life are acceptable, tires older than 10 years should be replaced. Always dispose of tires according to local and/or federal law.

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If stored incorrectly, long periods of inactivity can be harmful to the longevity of lead-acid batteries, reducing runtime and usable cycles. Two weeks prior to long-term storage, follow the below recommendations:

- Inspect battery cables for loose crimps or damage. Check all connections and torque to 95-105 in-lb(10.7-11.9 Nm).
- Clean batteries and battery tray with a battery acid neutralizer (1 cup baking soda in 1 gallon of water is recommended).Remove any corrosion from terminals.
- Thoroughly rinse the area under the car after washing batteries to help prevent damage or stains on the surface.



If any battery cases are cracked and/or leaking, DO NOT attempt to charge or discharge the batteries. Have a qualified technician remove the batteries from the vehicle and clean any spilled acid. Attempting to charge or discharge damaged batteries can cause overheating and create a risk of fire or explosion.

LITHIUM ION BATTERY STORAGE

ELECTRIC GOLF CART

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If stored incorrectly, long periods of inactivity can be harmful to the longevity of lithium batteries, reducing runtime and usable cycles. Two weeks prior to long-term storage, follow the below recommendations:

- It is recommended to fully charge the battery pack before storage.
- If storing for less than one month, State of Charge should be at least 60% when storing. For a period up to 6 months, State of Charge must be at least 80% when storing.
- Ensure that the power switch on the battery is OFF (not pushed in, and not illuminated).
- The battery should never reach temperatures lower than -4°F (-20°C) or higher than 131°F (55°C).
- At temperatures outside the range of 32°F-86°F (0°C-30°C), the battery state of charge will drain more quickly in storage and the state of charge should be monitored. Storage at low State of Charge can damage the battery.
- When returning from storage, press the power button on the battery and check the state of charge and temperature in the battery app.



- If the battery temperature is below 32°F/0°C, DO NOT attempt to charge the battery. Charging below freezing temperatures can cause damage to the battery and create risk of fire.
- Download the SMART Battery app. QR codes are located on page 15 or on top of the battery for iOS and Android apps.
- When the switch on the battery and the key are both on, the system will enter sleep mode after 5 minutes at idle.
- When either the switch on the battery OR the key is on, the system will enter sleep mode after 8 hours at idle.
- Once the charge cycle completes, the battery will enter sleep mode. Cycle the key switch to wake the battery.
- Most faults are displayed in the Diagnostics section of the app along with troubleshooting steps.

A SERIES GOIF CAR

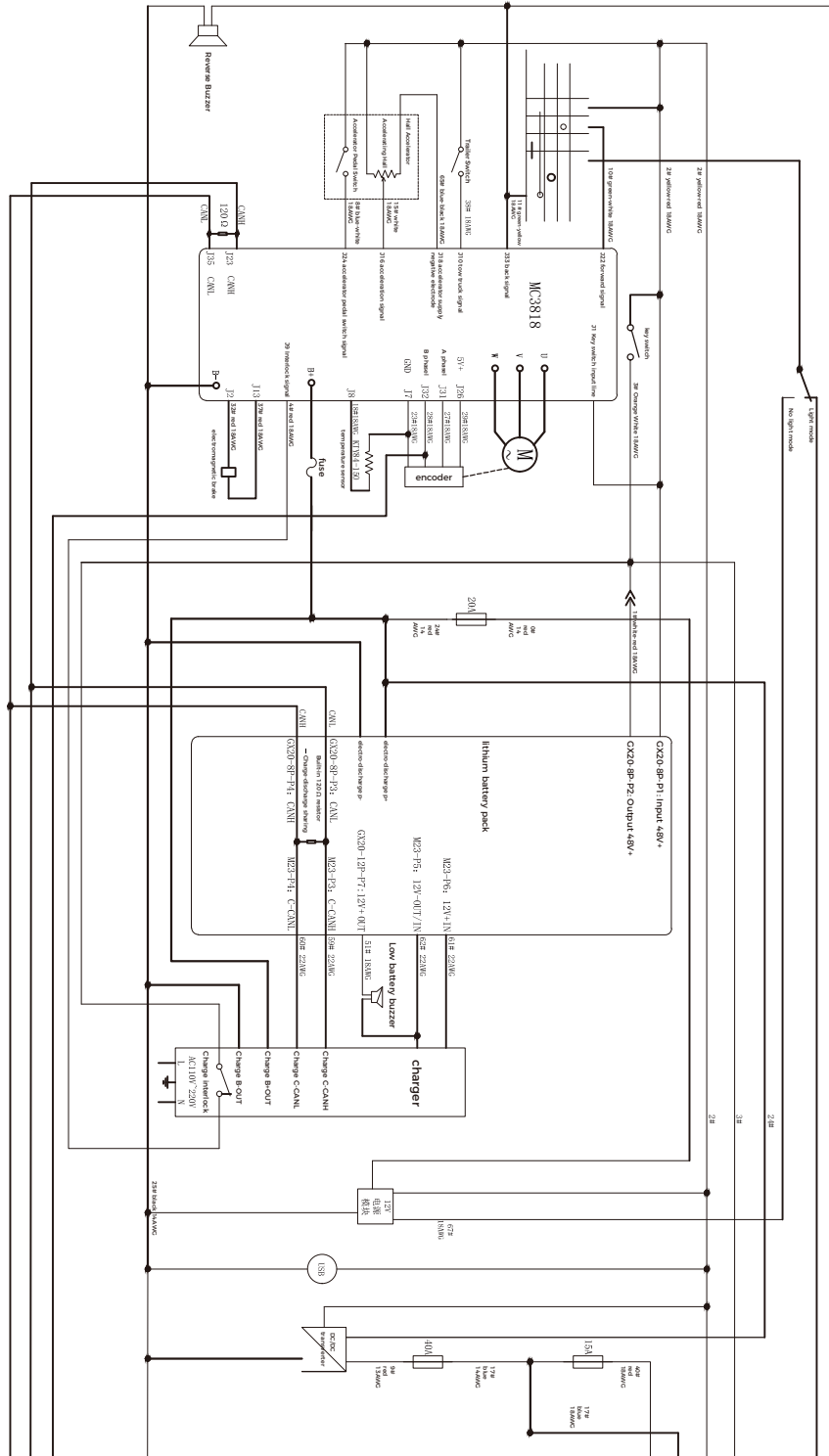
If the controller experiences a fault, the LED on the controller will flash the number of times in the “Flash” column below. To view the LED, remove the Philips head screws on the controller cover (where the Run/Tow switch is located). If the vehicle is equipped with an LCD display, the display will show the code in the “LCD-Display” column.

Flash	LCD Display	Fault	Solution
1	F01	High Pedal Disable	Release the accelerator. Turn the key off, then back on without pressing pedal.
4	F04	Controller Overheat	Shutdown vehicle. Wait several minutes for controller to cool down, then turn on key switch. The controller will restart.
5	F05	Main power outage	Check the battery to controller connection.
6	F06	Current sampling circuit error	Restart controller. If this does not work, replace controller.
7	F07	Encoder failure	Check the motor encoder. If this does not work, replace motor.
9	F09	Battery pack undervoltage	Check battery pack for errors.
10	F0A	Battery pack overvoltage	Check battery pack for errors.
11	F0B	Motor overheated	Shutdown vehicle. Wait several minutes before restarting. If error continues, check motor temperature sensor and/or replace motor.
12	F0C	Storage verification error	Restart controller. If this does not work, replace controller.
13	F0D	Accelerator sensor error	Check accelerator pedal connection. Replace pedal if needed.
15	F0F	EM Brake failure	Check Run/Tow switch and EM brake connection
21	F15	Startup sequence error	Restart controller. If this does not work, replace controller.
23	F17	Overcurrent output	Verify that the vehicle is not stuck and check motor connections. Check motor and replace if needed.

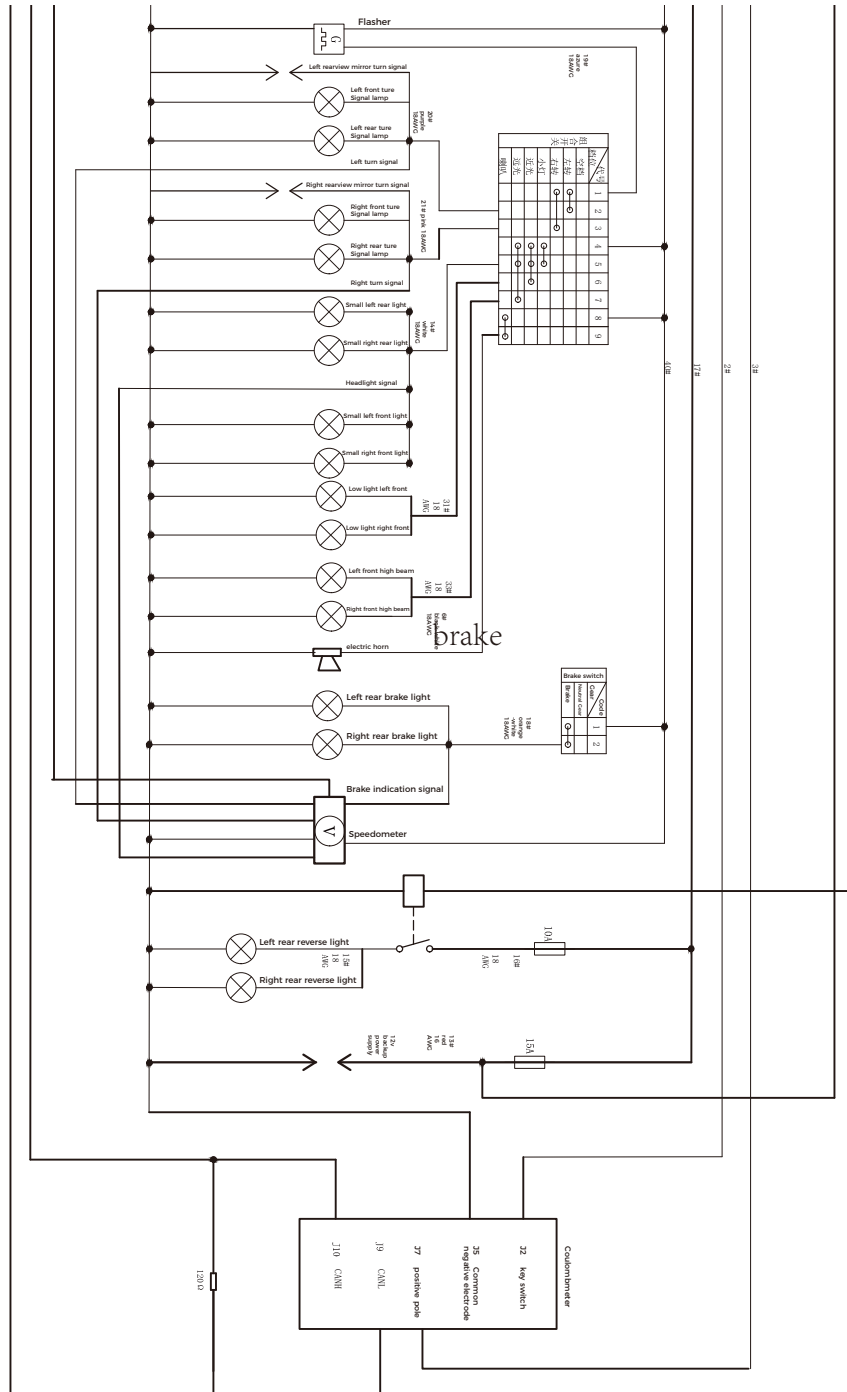
SCHEMATIC DIAGRAM OF THE WHOLE VEHICLE

ELECTRIC GOLF CART

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