

SDB Manual

## ECAR GOLF

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## CE certified

We meet the GB/T 21268-2014  
Standard after the quality inspection.

Read and Understand the manual before operating the car

# Preface

Dear Users,

Thank you for purchasing an Ecar. We have adopted technological advancements from Europe and the United States as our main imported components. Our carts are known for their innovative design. Complete with luxurious professional paint jobs and high-strength steel which gives our carts a stylish look while being reliable and having excellent performance. The notable features include being lightweight; having a strong uphill driving function; being eco-friendly; low noise; easy-to-charge and more while being reasonably priced. We are proud to say our carts are the most advanced in the field of electric carts at the moment. We have created this operation manual in order for us to help users operate and maintain it correctly. In order to ensure your ecar is in the best working condition and can be used for a long time; please read this manual carefully.

Our products are always improving and updating. If this manual does not exactly match the actual product at hand, it can still serve as a standard guide. However, we advise users to contact us regarding this matter.

*NOTE: This car is designed for relaxation and sightseeing purposes only. It's suitable for special specific places like tourism scenic areas, pedestrian mall and anything similar. Please do not use on highways and roads.*

# Contents

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# IMPORTANT MANUAL INFORMATION



Important information will be marked by below warning label

**SAFETY WARNING: BE CAREFUL! BE CAREFUL OF YOUR SAFETY**

## WARNING

Please follow this warning, or it will result in serious injury or even death.

## CAUTION

This label shows the information about how to keep the car to avoid needless injury.

## NOTE: \_\_\_\_\_

Ecar continually seeks improvement in product quality. Even though this manual contains the latest product information available at the time of printing, there may be minor discrepancies between your golf car and this manual. If you have any question concerning this manual, please contact your Ecar dealer, and we will work it out.

This manual should be considered as a permanent part of your golf car and should stay with the car when the car is resold.

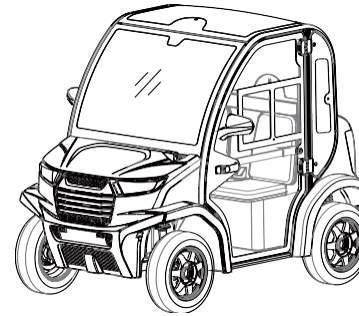
## WARNING

Read and understand the manual completely before operating your golf car.

## NOTE: \_\_\_\_\_

Ecar will update and improve the car or parts irregularly if there is any change, no further notice. Please kindly understand!

# IMPORTANT LABELS



## SAFETY AND INSTRUCTION LABELS

### WARNING

Please read the manual carefully before operating.

Please read the label carefully before operating, if the label is damaged or fall off, please replace it immediately.

①

### OPERATION INSTRUCTION

Brake pedal

Accelerator pedal

- Read the manual and safety instruction labels on the car before operating.
- Be sure that passengers are seated down.
- Select "forward" or "reverse" model.
- Step down the accelerator to start, and step down the parking pedal to stop.
- Please drive the car and refer to the Terrain, visibility, and driving experience. NEVER drive too fast. You must be careful at crowd and wet place and also back up during driving.
- You must make sure the car is stopped, then shift the direction (forward and reverse).
- It's forbidden to down the accelerator and brake pedal at the same time while driving.

②

### WARNING / AVERTISSEMENT



**EXPLOSIVE GAS**  
are released when batteries are charged or discharged. Keep well ventilated. Keep sparks, flames and cigarettes away. Shield eyes when working near batteries.



**SULFURIC ACID**  
in batteries. Will burn skin, eyes, and clothing. Do not touch batteries. Keep caps tight and level. In case of injury, rinse with water and see physician immediately.



**ELECTRICAL SHORTS**  
can result in burns. Do not make connections between positive and negative battery terminals.

③



### WARNING

- Please read the safety and instruction labels on the steering wheel before operating.
- No extra passengers can be allowed.
- Start the car until all passengers are seated well.
- Drive slowly when turning.
- Pull the parking pedal upwards before leaving the car.
- Turn off the main switch and the key when not using the car.
- The passengers should be well seated and fasten their seatbelt.
- Keep hands and feet inside the car.

④



### WARNING

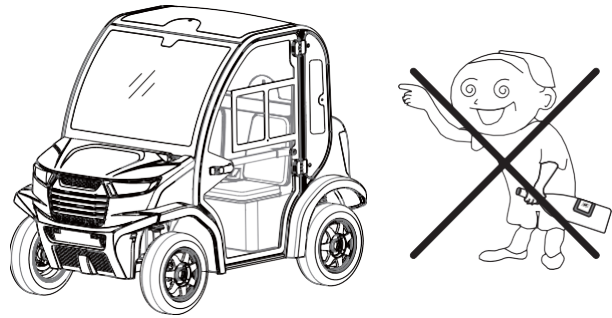


Windshields do not provide protection from other flying objects.

## SAFETY OPERATION

### Before operating:

1. Read this manual and all the other operations or labels marked on the car body before operating
2. Only authorised people should drive the car in the designated area
3. Do not OVERLOAD
4. Do not drive the car after drinking any alcohol or having any drugs, which could distract the driver's vision and judgment



### When operating:

1. Drive the car only when you're under the correct qualification to drive.
2. Keep your body in the car and do not start the car until all passengers are well seated.
3. Keep your hands on the steering wheel and your eyes on the path ahead.
4. Do not drive the car on unapproved roads.
5. Avoid sudden starts and braking.
6. Do not overload cart in order to avoid braking performance damage to the vehicle electrical parts and other security risks.
7. Do not turn the steering wheel too sharply at high speed.
8. Keep driving slowly straight up or straight down, not on an angle when on slopes.

Do not overload or make any modification towards spare parts without prohibition.

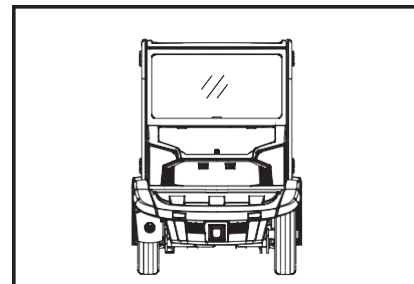
## OPERATION SAFETY



Ecar golf car was designed to be very easy to operate, but you should note the below:

### Before operating:

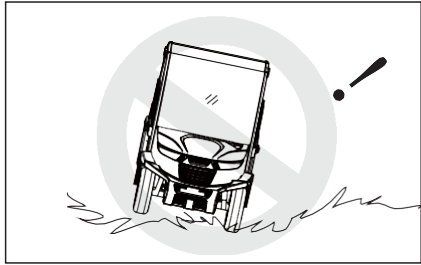
1. Please read the safety mark and label on the car before operating.
2. Only authorised people can drive the car in the designated area.
3. Don't overload.
4. Do not drink any alcohol or have any drugs that could distract the driver's vision and judgment. Drunk driving is illegal.
5. Don't drive on the road; it may cause collision with other cars.



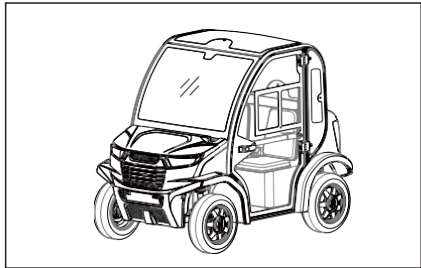
### During Operation:

1. Make sure your body does not stick out of the car and keep seated while driving.
2. Do not start the car until all passengers are seated.

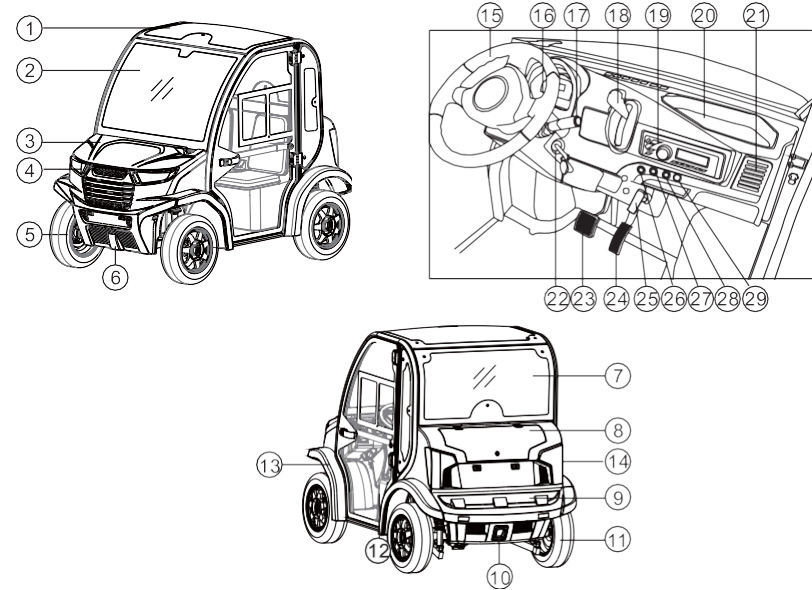
# OPERATION SAFETY



1. Keep your hands on the steering wheel and your eyes on the path ahead.
2. Be especially careful when backing the car in crowded places. Please keep clear vision of what is behind you and roll back slowly.
3. Avoid sudden and strong shock to the car and change to the proper speed according to the ground condition.
4. Do not turn the steering wheel too sharply when at high speed.
5. Keep driving slowly straight up or straight down, not at one same angle.
6. Do not make any modification or addition about the operation safety and loading capacity.



# WHOLE CAR STRUCTURE



## Whole Vehicle Structure and Parameter

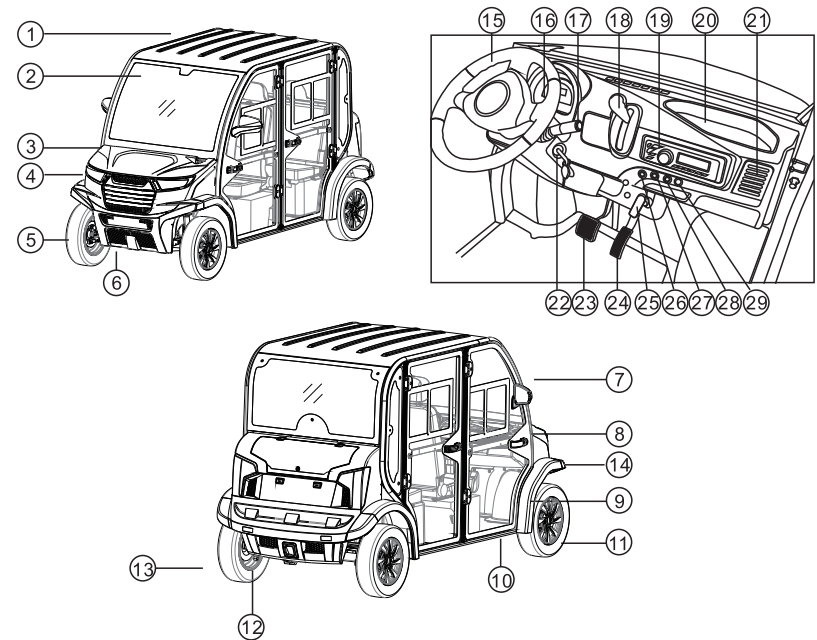
- |                     |                            |                          |
|---------------------|----------------------------|--------------------------|
| 1. Glass roof.      | 11. Rear tires             | 21. Air outlet           |
| 2. Front windshield | 12. Seat bucket            | 22. Electric switch lock |
| 3. Front cover      | 13. Front mud cover        | 23. Brake pedal          |
| 4. Front headlight  | 14. Rear Taillight         | 24. Accelerator          |
| 5. Front tire       | 15. Steering wheel         | 25. Hand brake           |
| 6. Front bumper     | 16. Combination instrument | 26. Model switch         |
| 7. Rear windshield  | 17. Combo switch           | 27. Double flash switch  |
| 8. Trunk            | 18. Gear position selector | 28. Cold wind switch     |
| 9. Rear bumper      | 19. DVD                    | 29. Warm wind switch     |
| 10. Vent decoration | 20. Storage box            |                          |

## WHOLE CAR STRUCTURE AND SPECIFICATIONS (2 PASSENGERS)

Whole car specifications (Standard) and parameter table

| No. | Item   | Unit          | Value |
|-----|--|---------------|-------|
| 1   | Overall Length                               | mm            | 2020  |
| 2   | Overall Width<br>(including rearview mirror) |               | 1920  |
| 3   | Overall Height                               |               | 1610  |
| 4   | Wheel Base                                   |               | 1370  |
| 5   | Tread  |               | 1080  |
|     |  | Rear          | 1116  |
| 6   | Curb weight                                  | kg            | 540   |
| 7   | Loading passenger<br>(including driver)      | person        | 2     |
| 8   | Mini turning radium                          | m             | 3.5   |
| 9   | Max speed(empty load)                        | km/h          | 40    |
| 10  | Max speed(full load)                         |               | 40    |
| 11  | Rated voltage                                | V             | 48    |
| 12  | Max Climbing Ability                         | 20%           |       |
| 13  | Mini ground clearance                        | mm            | 120   |
| 14  | Mileage                                      | empty load    | 120   |
|     |  | full load     | 110   |
| 15  | 2min operating current                       | A             | 350   |
| 16  | Braking distance                             | M             | <4    |
| 17  | General No.                                  | 6211-00000000 |       |

## WHOLE CAR STRUCTURE AND SPECIFICATIONS 4 PASSENGERS



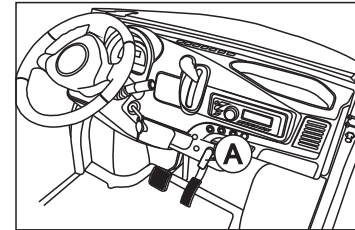
Whole Vehicle Structure and Parameter

- |                    |                           |                         |
|--------------------|---------------------------|-------------------------|
| 1.Roof glass       | 11.Rear tire              | 21.Air outlet           |
| 2.Front windshield | 12.Seat bucket            | 22.Electric switch lock |
| 3.Front cover      | 13.Front mud cover        | 23.Brake padel          |
| 4.Front headlight  | 14.Rear tail light        | 24.Accelerator pedal    |
| 5.Front tires      | 15.Steering wheel         | 25.Hand brake           |
| 6.Front bumper     | 16.Combination instrument | 26.Mode switch          |
| 7.Rear glass       | 17.Combo Switch           | 27.Double flash switch  |
| 8.Trunk            | 18.Gear position selectvr | 28.Cold wind switch     |
| 9.Rear bumper      | 19.DVD                    | 29.Hot wind switch      |
| 10.Vent decoration | 20.Storage box            |                         |

## WHOLE CAR STRUCTURE AND SPECIFICATIONS (4 PASSENGERS)

| No. | Item  | Unit          | Value |
|-----|---|---------------|-------|
| 1   | Overall Length                                | mm            | 2760  |
| 2   | Overall Width<br>(including rearview mirror ) |               | 1290  |
| 3   | Overall Height                                |               | 1610  |
| 4   | Wheel Base                                    |               | 2100  |
| 5   | Tread   |               | Front |
|     |   | Rear          | 1116  |
| 6   | Curb weight                                   | kg            | 685   |
| 7   | Loading passenger<br>(including driver)       | Person        | 4     |
| 8   | Mini turning radium                           | m             | 4.9   |
| 9   | Max speed (empty load)                        | km/h          | 40    |
| 10  | Max speed(full load)                          |               | 40    |
| 11  | Rated voltage                                 | V             | 48    |
| 12  | Max Climbing Ability                          | 20%           |       |
| 13  | Mini ground clearance                         | mm            | 120   |
| 14  | Mileage                                       | empty load    | 120   |
|     |   | full load     | 110   |
| 15  | 2min operating current                        | A             | 350   |
| 16  | Braking distance                              | M             | <4    |
| 17  | General No.                                   | 6280-00000000 |       |

## PRE OPERATION



### HAND BRAKE

Please check whether the hand brake has good effects on braking.

Ⓐ hand brake

### NOTE: \_\_\_\_\_

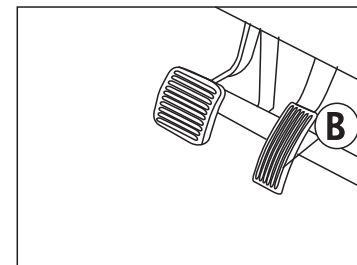
Release the hand brake before pressing on the accelerator pedal.

### WARNING \_\_\_\_\_

Before checking the accelerator pedal, please make sure that the switch of the E-stop is on.

Check whether the accelerator pedal is flexible and reliable, to see if the pedal can return once stamp it.

Make sure that the accelerator pedal operates smoothly.



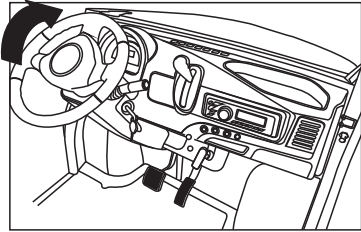
Ⓑ Accelerator pedal

### HAND BRAKE

Before using, please check carefully whether the car body and chassis are breakdown or lost some parts.



## PRE OPERATION



### STEERING SYSTEM

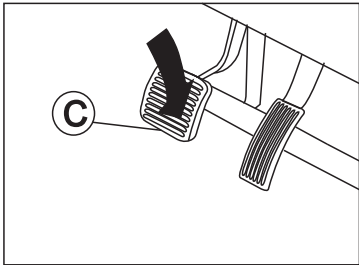
Please check if there is excessive spin in the steering system. Move the steering wheel back and forth gently.

### Reversing

Please press the switch to reverse and check the reversing signal.

### Pedal operation

Please check whether the pedal operation is Ok, if there is something wrong, please contact the distributor immediately.



### Brake pedal

Make sure that the brake feels stable and firm when you press it, and returns to the correct position.

## PRE OPERATION

Pre-operation checks should be made each time before you use the golf carts. Please form good habits for the following checks.

### WARNING

Before pre-operation checks, please make sure that the start key is taken away to prevent starting accidentally. Also ensure the parking brake is locked to keep the car from moving while parking.

### PRE-OPERATION CHECKLIST

Checking lists for pre-operations  
Please check the following before use each time:

- √ Battery
- √ Tire condition
- √ Steering system
- √ Back up buzzer
- √ Pedal operation
- √ Car body and chassis

### SEAT

Please open the seats for checking and maintenance.



# PRE OPERATION

## BATTERY

Please see the chapter 6 for charging steps.

Please check if the batteries are steadily secured in place to prevent the batteries from vibration. Regularly check to see if there is dirt retention, foreign matter on the batteries. Prevent acid from spilling from the batteries. Check if the battery terminals are loose and re-tighten regularly.

## TIRE CONDITION

### TIRE PRESSURE

Check the tire pressure before use.

Tire pressure

30-35PSI

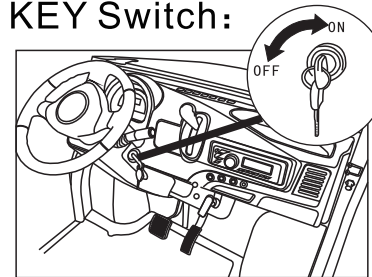
### Tire wear limit

Please check the damage to the surface of the tire for cracks or embedded objects. Please replace the tires if the tire wears down to 0.04(1mm).

Ⓐ Wear limit

# OPERATION AND CONTROL

## KEY Switch:

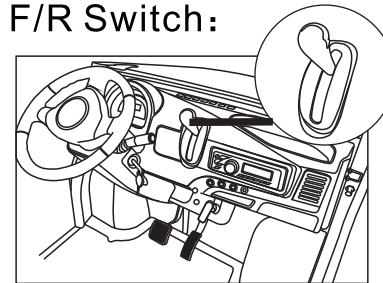


## STEPS FOR STARTING THE CART:

1. Check the E-stop switch, and make sure it is on. It is in the lower left side of the dashboard, pull it up to the bottom, the cart will have power. Pull it down, then the cart is off.
2. Turn on the electric lock, move the shift to "D" or "R" (wait 2 seconds) and release the hand brake, then step the accelerator pedal to move it forward gently.

Note: Please make sure the cart is stopped before changing the shift switch. Firstly turn to "P" switch, and then move to "D" or "R" after waiting 2 seconds. Be sure not to change the switch in a hurry to avoid burning the contactor or damage the switch.

## F/R Switch:



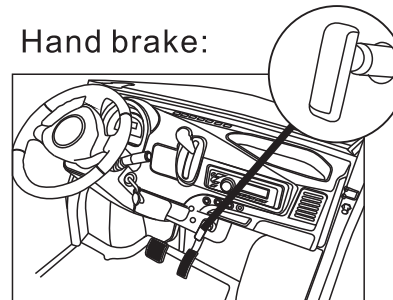
## CAR STOP

1. Release the accelerator pedal, make it stop or step the brake pedal.
2. When changing transmission, please pull the switch to "D" or "R".
3. To stop, please pull the switch to "N", and then pull up the hand brake and turn off the electric lock to park the cart.

## HAND BRAKE

Once you stop the cart, pull up the hand brake to finish parking completely.

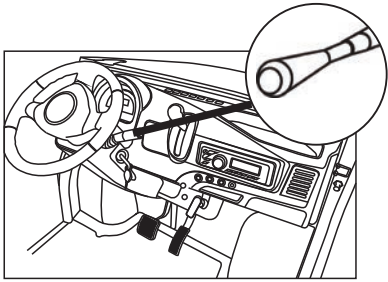
## Hand brake:



## ! WARNING

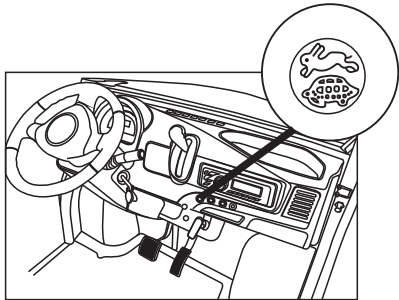
Completely stopping car before shifting F/R switch. When shifting F/R switch, please turn switch to middle position for 2s at first, then choosing Forward switch or Reverse switch. Don't shift the F/R switch in a hurry due to risk of the sensor burning out or switch failing.

## OPERATION AND CONTROL



### Combination switch /Left:

left position light/headlight/turning light  
Functions: Left side lights can be rotated 3 way: small light,low beam,high beam.  
Switch it up/down to control turning light, turn on or off.

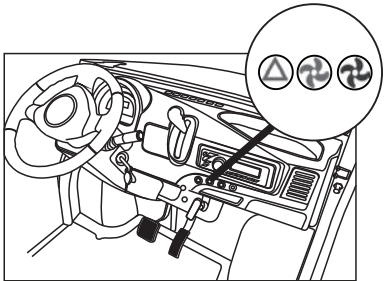


### Combination switch /Right:

The right handle is for controlling the wiper, move to rear followed by low speed wiper, and high-speed wipe. Press the top button of the handle to spray water. Release to stop.

### Mode switch:

Press it down to be high speed(40km/h),release it to low speed(25km/h).



### Double flash switch:

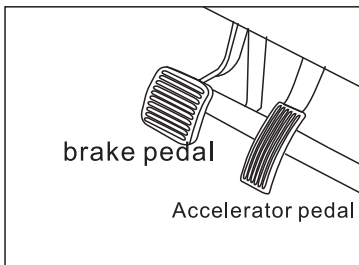
The red triangle button is the hazard switch,please turn on the button if the cart has broken down or you need to park roadside temporarily.

### Cold/hot wind switches:

The blue fan button is cold air, red fan button is warm air. The cold air has a priority function to work when both of blue and red buttons are turned on

### Accelerator/Brake pedal:

Accelerator pedal is continuous speed. The brake pedal will have priority fuction, whenever you press the brake pedal, the vehicle will stop driving.



## AIR CONDITIONER INSTRUCTION

### Switches:

1. Blue Cold air switch (A/C switch)
2. Red Warm air switch
3. Wind speed adjustment knob (three gears of speed)

### Open air condition refrigeration:

1. Press the cold air switch
2. Adjust wind speed knob to the right gear, to be in the refrigeration condition.

### Open air conditioning heater:

1. Press the warm air switch
2. Adjust wind speed knob to the right gear, to be in the heating condition.

### WARNING

1. When cold, warm switches and speed adjustment knob are turned on at the same time, the cold air has a priority function.
2. If cold and warm air switches are not pressed, only wind speed adjustment knob is turned on, outlet is for natural wind.
3. If cold and warm air switches are both pressed, but wind speed adjustment knob is turned off, the air conditioner doesn't work.
4. The air conditioner will consume more battery energy in refrigeration or heating, we suggest to turn off the air conditioner to reduce power consumption when no need.
5. It is strictly prohibited to open the air conditioner when charging the battery, which will result in unrepairable damage to the battery.

# MAINTENANCE

## BATTERY CHARGING

### **! WARNING**

Read and understand the manual provided with your car's battery charger before charging batteries.

### **! WARNING**

Explosive hydrogen gas is produced while batteries are being charged. Only charge batteries in well ventilated areas. It can be charged at least under ventilation 5 times per hour.

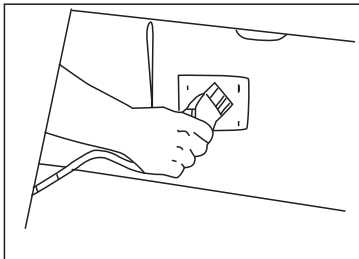
Follow the charger owner operation instructions to charge the batteries

The following is a summary of the charging steps. Do not attempt to recharge your car's batteries without thoroughly reading and understanding the manual.

Connect the charger properly with the plug case(see charger's owner's manual).Do not insert the AC output plug into the car directly.

### **CAUTION**

Use battery chargers that are only designed for this car. Thoroughly read and understand the manual.



# MAINTENANCE

## Battery Maintenance

### **! WARNING**

Clean the battery surface regularly, please make sure full battery charged and turn off the emergency switch before longtime no using, please recharge the battery after one month parking.

The batteries release the gas explosion, pls get away from kindling spark.

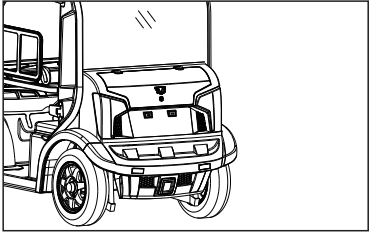
When charging the batteries, pls keep the air ventilation. if you are working near the charging batteries, pls protect your eyes.

### **! WARNING**

Keep out reach of children.

Batteries provide power for the vehicle and must be properly maintained and recharged for maximum performance and extend service life.

## MAINTENANCE

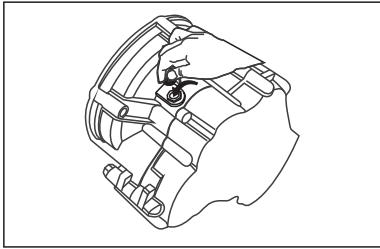


Check the oil level in the gearbox  
Gearbox oil

- 1.Place the car on a horizontal level
- 2.Lift up seat
- 3.Open the tank filler cap
- 4.pour the oil (model:GL-4 75W/90) in the gear oil slowly until it reaches the oil overflow valve.

Recommended oil:  
SAE 90 gearoil

Gearcase capacity:  
0.3L



- 5.It's fine for oil overflowing. Make it stop when it flows out

### CAUTION

Other materials are forbidden from getting into the gearbox

- 6.Screw back the cap.

### NOTE:

For oil change, please consult your Ecar dealer or other qualified mechanic.

## MAINTENANCE

### WARNING

When the charger is working for the batteries. please don't disconnect the output cord from the battery receptacle, which may cause spark and charging abnormal.

- 1.The charger will turn off automatically when the batteries are fully charged.
- 2.After the charger has turned off disconnect the AC output plug from the golf car receptacle by grasping the plug body and pulling the plug straight out of the receptacle.

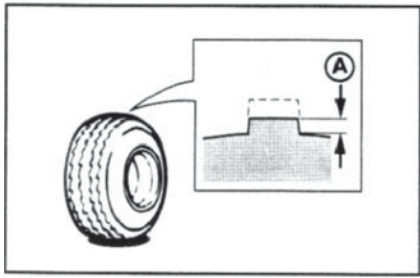
### BATTERY INSTALLATION

### WARNING

When installing the batteries,do not put the wrenches or other metal objects across the battery terminals. High current sparks could lead to causing explosion of the batteries.

down to 0.04 (1mm).

Ⓐ Wear limit

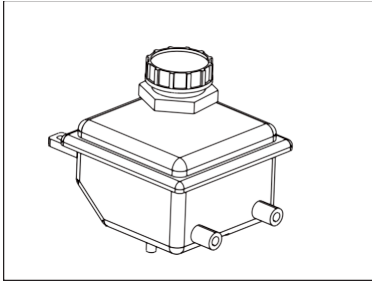


finish parking completely.

## WARNING

Completely stop the car before shifting F/R switch. When shifting F/R switch, please turn the switch to middle position for 2s at first, then switch to Forward switch or Reverse switch. Don't shift the F/R switch quickly as it can burnt out the sensor or switch.

# MAINTENANCE



## Brake Oil Tank:

The brake oil tank is located below the right storage pocket of vehicle's dashboard. In order to ensure the superior performance of brake system, check the surface, and fill in brake oil in a time when the oil liquid is less than 1/2.

## PERIODIC MAINTENANCE CHARTS

Regular maintenance is required for the best performance and safe operation of your car.

### WARNING

Make sure to turn off the key switch and pull up the handbrake before maintenance. If you are not familiar with the operation, this work should be done by Ecar dealer or other qualified technicians.

# MAINTENANCE

C=Check CA=Check Adjust R=Replace S=Service CL=Clean and Lubricate L=Lubricate

| Remarks   | Pre-Operation | 20 rounds<br>20 hours<br>20 hours<br>160kms(<br>Every<br>Month) | 125<br>rounds<br>125<br>hours<br>6 0 0<br>miles<br>1000k<br>m s<br>( Ever<br>y 6<br>Month<br>s) | 250 rounds<br>250 hours<br>1200 miles<br>1000kms(<br>Every<br>Years) | 500 rounds<br>500 hours<br>2500 miles<br>4000kms(<br>Every 2<br>Years) | 1000<br>rounds<br>1000<br>hours<br>5000<br>miles<br>8000km<br>s (Every<br>4 years) | Page |
|---|---------------|---|---|--|--|--|------|
|   | S             | S   | S   | S  | S  | S  | *    |
|   | S             | S   | S   | S  | S  | S  | *    |
|   | C             | CA  | CA  | CA   | CA   | CA   | *    |
|   | C             | C   | C   | C  | C  | C  | *    |
| depth tire surface for damage                           | C             | CA  | CA  | CA   | CA   | CA   |      |
| Check body and chassis, for damage                      | C             | C   | C   | C  | C  | C  | *    |
| Check tightness of all bolts, nuts and screws           | C             | C   | C   | C  | C  | C  | *    |
| Check reverse buzzer                                    | C             | C   | C   | C  | C  | C  | *    |
|   |               | C   | C   | C  | C  | C  | *    |
| Clean Lube Pedal control area                           |               | CL  |   |  |  |  | *    |
| Check all wire insulation for crack and or worn spots   |               |   | C   | C  | C  | C  | *    |
| Check shock absorbers for oil leaks and damaged springs |               |   | C   | C  | C  | C  | *    |
| Perform a discharge test                                |               |   |   | S  | S  | S  | *    |
| Electrode protectant                                    |               |   |   | S  | S  | S  | *    |
| Check brake lining thickness and rear axle beating play |               |   |   | C  | C  | C  | *    |

Every 4 month

|  |  |  |  |    |    |    |   |
|--|--|--|--|----|----|----|---|
| Check the direction gap and adjust the wheels          |  |  |  | CA | CA | CA | * |
| Check wheel not tightness<br>front wheel bearing play  |  |  |  | C  | C  | C  | * |
| Check gear box oil level and                           |  |  |  | C  | C  | C  | * |
|  |  |  |  | CA | CA | CA | * |
|  |  |  |  |    |    | R  | * |
| Check for grease leakage; adjust gear box if necessary |  |  |  |    |    | CA | * |

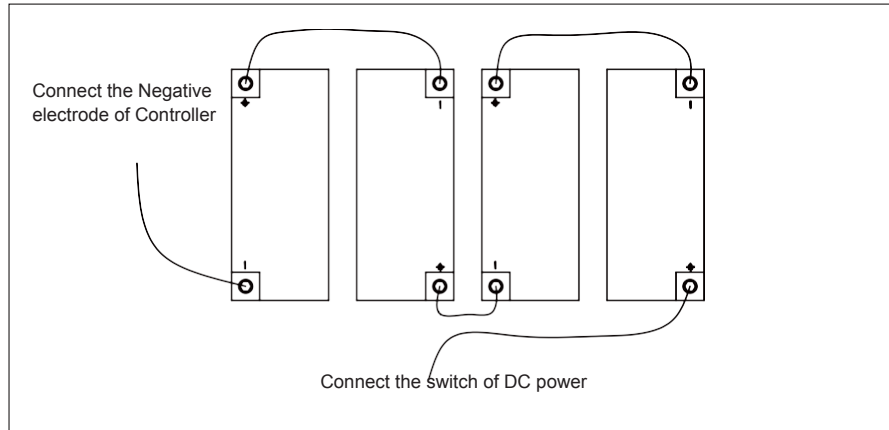
leakage  
 Check operation and adjust pedal stop if necessary  
 Replace gear box oil

Items without a page number reference should be serviced by approved agent or qualified technician. This manual doesn't contain these procedures. They are contained in the Service Manual



## MAINTENANCE

2. Link the cables as the picture



### WARNING

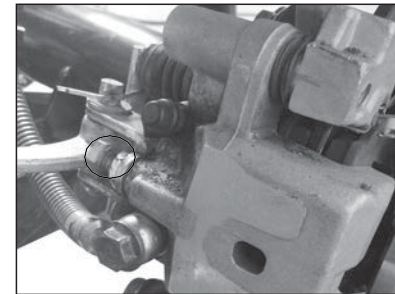
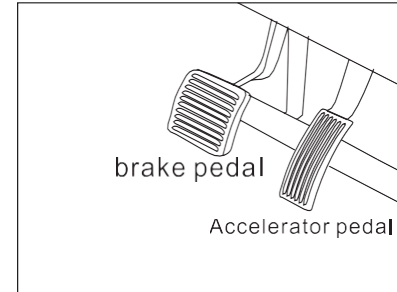
When the battery is installed: be careful discharging wire and hang it, ensure that the cross poles; when removing, first remove the negative (-) motor controller, and install it as the final step of the installation. Do not screw too tight, too vigorously can damage the battery casing and Terminal.

## MAINTENANCE

MAINTENANCE  
BRAKE SYSTEM ADJUSTMENT

### CAUTION

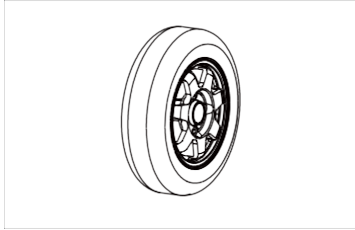
1. This vehicle has 4-wheel hydraulic disc brakes.
2. The brake distance is less than 4 meters (unload).
3. If the brake distance is more than 4 m, please check the abrasion of the wheel friction piece. If the thickness of the brake piece is less than 2mm, then you need to change a new one, if not, then you need to adjust the screws accompanied with the brake wire.
4. If the brake does not work or not working well, please check if the brake oil is used up or ask the technician for further help!



## MAINTENANCE

### CAUTION

Make sure the switch is in the 'off' position before you check the braking system.



### Change the tire Disassemble and assemble the tire

1. Pull up the handbrake and make sure the car cannot be moved before you disassemble the wheel nuts
2. Lift the car with a jack and disassemble the tires and screws
3. Use the steps above conversely when assembling the tire

Wheel nut tightening  
torque:

90NM-105NM

### Braking Adjustment

The brake of this car can be adjusted by yourself.

Please use your foot to press the braking pedal, and make sure it is functioning properly.

### WARNING

Consult your Ecar dealer before using the car if you have anything problem with the brake because serious accident could occur in case of

## STORAGE

### Transportation

Loading and offloading instruction.

1. When loading the car, for transportation safety, please make sure the power is off and pull up the handbrake. You also need to place blocks at the tires and tie the car with belts to fix the car.
2. If you load the car by forklift, please put 2 pcs of wooden bar that are no shorter than 1 meter and no smaller than 100x100mm to avoid scratching your car. And if you load the car by the platform, please make sure the driver is qualified.
3. To avoid the damage of the motor and steering system during the transportation, dragging the car with front wheels or rear wheels is forbidden!

### Storage

Please follow the instructions below if you will stock the car for a long time

### NOTE

Turn the main switch key to the "OFF" position, remove the key, and put it in a safe place.

### CHASSIS PREPARATION

1. Check if the air pressure of the tires reach 30-35 psi (3 kgf/cm<sup>3</sup>)
2. Clean the outside of the car with antirust oil
3. Cover the car and store it in a dry and well-ventilated place

### BATTERY PREPARATION

1. Recharge the batteries and check the fluid levels at least once a month (if you use the lead-acid batteries).
2. Disconnect cables.

### CAUTION

Cleaning products are forbidden to put into battery cells

brake failure.

3. Clean the top of the batteries with baking soda so as to avoid erosion.

## WARRANTY AND AFTER-SALE

Please read carefully following instructions for your benefit and also to help you get a better after sales service:

### What is under warranty and valid date?

Please read this instruction book carefully after you buy a car from us.

We promise to change or repair for material quality or designing problem. Objects & Content

Start date: Since the date of delivery.

1. We will do free repair service as our standard warranty terms
2. As the universal parts, like tires, cushions are not included in the warranty scope. Please contact us when there is any problem.
3. We will send technicians if there is a serious quality problem.
4. Provide long-term after-sales service when warranty date is invalid.

Below conditions are excluded from the warranty by Ecar

1. Damage caused by improper usage
2. Damage caused by improper assembly
3. Damage caused by improper operation
4. Damage caused by overloading
5. Damage caused by improper and unauthorised maintenance
6. Damage caused by natural disaster or accidents, or any other uncontrolled reasons.
7. Damage caused by the components not ordered directly from Ecar
8. Beyond the warranty period

## WARRANTY AND AFTER-SALE

### Valid Warranty

Buyers need to fill warranty card, stamp, and send back to us. The warranty comes into effect once we receive and confirm it.

### Kind Statement

Any damage caused by an improper action will be excluded from the warranty by Ecar.


# THE MALFUNCTION TABLE OF

Preliminary / Confidential

| Diagnosis and identification (preliminary) |                             |  |  |                   |
|--|-----------------------------|--|--|-------------------|
| No   | Anomalies                   | Exceptional condition                                    | Restoration condition                        | LEDFlash button * |
|  | Temperature anomaly         | Internal temperature above 80°C                          | Internal temperature below 75°C              | G) -              |
|  |                             | Internal temperature below -20°C                         | Internal temperature above -15°C             |                   |
| 2  | External connection anomaly | Contactator coil short circuit                           | KEY OFF---->ON                               | - - -             |
|  |                             | Forward and backward switches both ON                    | KEY OFF---->ON                               |                   |
| 3  | Current anomaly             | Phase current value   > 6 30A                            | KEY OFF---->ON                               | @- - - -          |
|  |                             | When stop current sensor AD average is beyond 2048 ± 140 | KEY OFF---->ON                               |                   |
| 4  | Internal sensor anomaly     | Internal temperature sensor short circuit or break       | Internal temperature sensor values correctly | @ - - - - -       |
| 5  | Voltage anomaly             | Battery voltage above 60V                                | Battery voltage below 54V                    | ®- - - - -        |
|  |                             | Battery voltage below 36V                                | Battery voltage above 40V                    |                   |

## ( ) LED Flash button details

G) \*   
 ls 0.Ss ' 0.1 s '

(2)   
 ls 0.Ss 0.1 s ' 0.Ss ' 0.1 s

@   
 ls 0.Ss ' 0.1 s ' 0.Ss : 0.1s 0.s ,s 0.1 s

@ ls O.Ss ' O.l s ' O.Ss : O. l s O.Ss ' O.ls 0.Ss ' O.l s '

@ ls O.Ss : Q.l s ' 0.Ss, O.ls O. O.l s O.Ss ' O.l s ' O. Ss ' O.ls ' Ss