

## Resort People Mover & Utility Manual

"ECAR GOLF"

"Address: 7/ 42 Export Dr, Molendinar QLD 4214"

"Tel: +61400669023"

"Website: <http://www.ecargolf.com.au>"

### **CE certified**

We meet the GB/T 21268-2007  
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.*

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# IMPORTANT MANUAL INFORMATION

Important information is distinguished by using the following symbols and notes :



## THE SAFETY ALERT SYMBOL

This relates to your safety so it is very important to understand

### WARNING

Failure to follow **WARNING** instructions could result in severe injury or death of the golf cart passengers, bystanders, or the driver of the golf cart.

### CAUTION

This message describes special precautions that must be taken to avoid damaging the cart .

### NOTE:

This message provides additional information.

### NOTE:

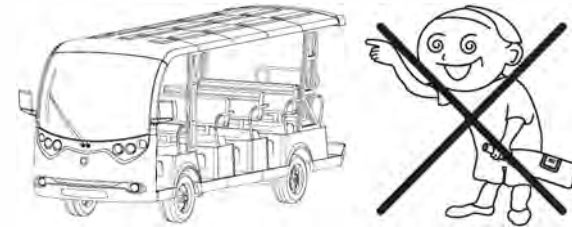
Ecar continually seeks improvement in product quality. Even though this manual contains the latest product information available at the time of printing , there may be minor discrepancies between your golf cart and this manual . If you have any questions concerning this manual, please contact your Ecar dealer. This manual should be considered a permanent part of your golf cart and should stay with the car when resold .

Read and understand this manual completely before operating your golf cart.

# SAFETY OPERATION

## Before operating :

1. Read this manual and all the other operations or labels marked on the cart body before operating.
2. Only authorized people should drive the cart and only in designated areas
3. Do not **OVERLOAD** .
4. Do not drive the cart if you are intoxicated



## When operating:

- 1 . Keep your body in the cart and stay seated while cart is moving.
2. Do not start the cart until all passengers are seated.
3. Keep your hands on the steering wheel and your eyes on the path at all times
4. Be especially careful when reversing the cart in crowded places. Drive slowly and carefully while being aware of your surroundings.
5. Avoid sudden acceleration and sudden braking
6. Do not turn the steering wheel too sharp while at high speeds
7. While driving on slopes or hills, keep the cart straight while accelerating or reversing to avoid tipping your cart.

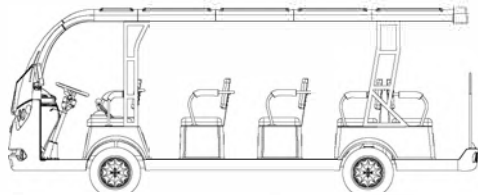
**Do not overload or make any modification to parts unless by an authorized mechanic or ecar dealer.**

# IMPORTANT LABELS

## SAFETY AND INSTRUCTION LABELS

### WARNING

Please read the attached labels carefully before driving the golf car, and promptly replace any label that is damaged or removed.



①

### OPERATION INSTRUCTIONS



- Read and understand manual before use
- Ensure all passengers are safely seated
- Select 'forward' or 'reverse' functions
- Drive carefully and aware of road conditions
- Drive safe and slow in crowded areas
- When parking, pull up hand brake
- When starting, release hand brake

②

Explosive gasses are released when batteries are charging. Keep flammable materials away.



Sulfuric acid from batteries can burn skin and eyes.



Electrical shorts can result in burns. Do not connect batteries to incorrect terminals.

③

### WARNING

- Do Not Overload Passengers
- Do not start cart until all passengers are safely seated
- Drive slow and carefully while turning
- Make sure hand brake is fully engaged when cart is not in use
- Turn off cart and remove keys when not driving
- All passengers should be safely seated at all times
- Hands and feet must remain inside the cart at all times

④

WARNING  
Windshield does not provide protection against flying objects.



# OPERATION SAFETY

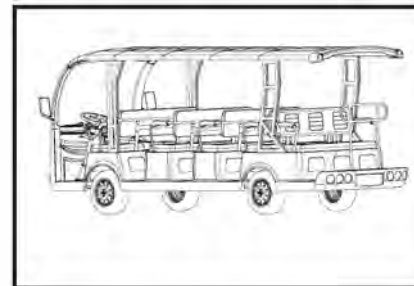
The Ecar golf cart is designed to be simple to operate. However, be sure to follow the steps:

### BEFORE OPERATING:

1. Read this manual and all the other operations or labels marked on the cart body before operating.
2. Do the pre-operation checks in Section 6 of this manual.
3. only authorized people should drive the cart and only in designated areas



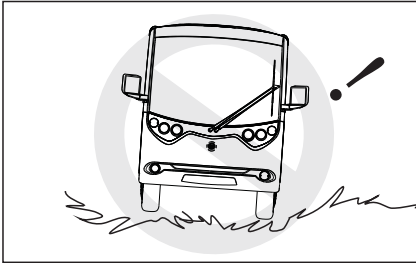
4. Do not overload
5. Do not drive while intoxicated.
6. Do not drive the cart on public roads, streets, highways etc. Unless explicitly authorized.



### WHEN OPERATING:

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

# OPERATION SAFETY



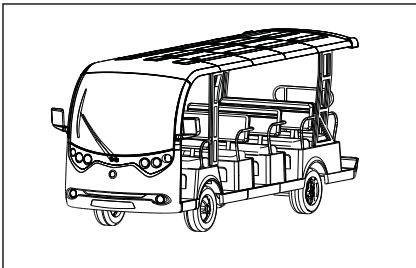
Keep your hands on the steering wheel and your eyes on the path ahead

Be especially careful when reversing the cart in crowded areas. Please always watch your back and reverse slowly.

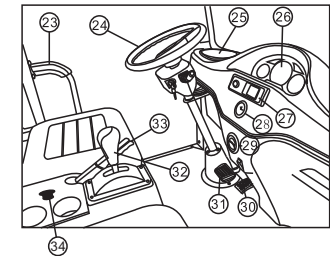
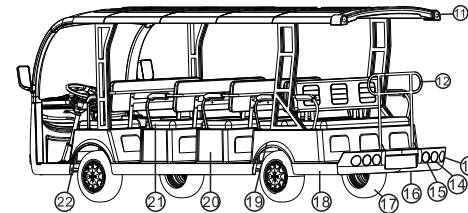
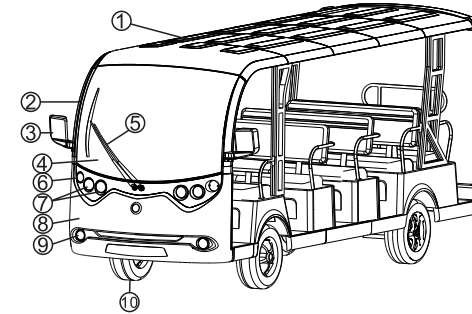
Avoid sudden acceleration and change speed according to ground conditions.

Do not make sharp turns at high speeds

Do not make unauthorised modifications to the vehicle structure or its parts.



# STRUCTURE AND SPECIFICATION




1-Top roof	12-Rear Arm Rest	23-Driver's Arm Rest
2-Driving Cabin	13-Turning Light	24-Steering Wheel
3-Rear Mirror	14-Brake Light	25-Storage
4-Windshield	15-Reverse Light	26-Dashboard
5-Wiper	16-Rear Bumper	27-DVD
6-Turning Light	17-Rear Wheel	28-Clock
7-Head Light	18-Side Bumper	29-Window
8-Front Cover	19-Rear Wheel Fender	30-Throttle Pedal
9-Front Fog Light	20-Seat Support Barrel	31-Brake Pedal
10-Front Wheel	21-Seat	32-F/R
11-Reflecting light	22-Front Wheel Fender	33-Hand Brake
		34-Main Power Switch

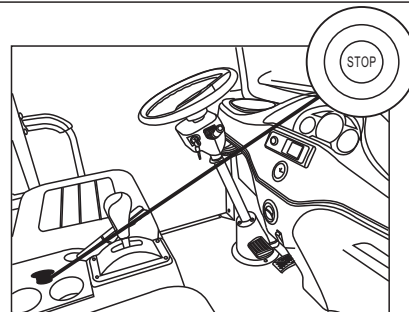


# WHOLE CAR STRUCTURE AND SPECIFICATIONS

Whole car standard configuration and Parameter table  
(Specific configuration will be subject to contract)

	Electric system		Controller	Toyota AC Controller
			Battery	Premium Maintenance Free Batteries
			Motor	72v 11kw AC motor
			Charger	Premium ECAR 25 Amp on board charger
			Electric throttle	Electrical accelerator 0-5kΩ
Car body	Windshield	2+2 Laminated glass	Top roof	Fiber glass
	Seat	Leather	floor	Aluminum checker plate
	Side mirror	Left and right mirrors	Steering	Dual automotive-style strut and self-adjust rack and pinion steering
	Lights	72v/12v-400w, head lights, turning light, fog light, reverse light, tail light, horn, reverse alarm		
	Body	PP plastic injection	Chassis	Strong steel pipe welding+ anti-rust pretreatment
	dashboard	Speedo, voltage indicator, speaker, key switch, combo switch, F/R switch		
	Brake	Front disc, rear drum, hydraulic brake & hand brake		
	Front suspension	Independent suspension, spring +hydraulic shock absorber		
	Rear suspension	Excellent transaxle, gear ratio 12.31:1, steel plates + hydraulic shock absorber		
	Tires	535mm, 12" steel wheel		
Loading staff	14 persons( include driver)			
<p>1 car main specifications</p> <p>1.1 dimension: LxWxH 4960*1480*1960mm</p> <p>1.2 wheel base 2680mm</p> <p>1.3 car weight (with batteries) 1130kg</p> <p>1.4 loading capacity 1050kg</p> <p>1.5 max speed 22km/h</p> <p>1.6 mileage 80—100km (flat road)</p> <p>1.7 mini turning radius 5.6m</p> <p>1.8 max climbing ability 15%</p> <p>1.9 ground clearance 180mm</p> <p>1.10 Max. movement after brake 4m</p> <p>1.11 wheel distances 1190mm/ 1210mm</p> <p>2 battery main specifications</p> <p>2.1 battery type Lead acid battery</p> <p>2.2 capacity 270Ah</p> <p>2.3 standard voltage 72V</p> <p>3 motor main specifications</p> <p>3.1 motor type DC series motor</p> <p>3.2 constant output power 11kw</p> <p>3.3 rated speed 2800r/min</p> <p>3.4 rated voltage 72V</p> <p>3.5 rated current 102A</p> <p>3.6 rated 60min</p>				

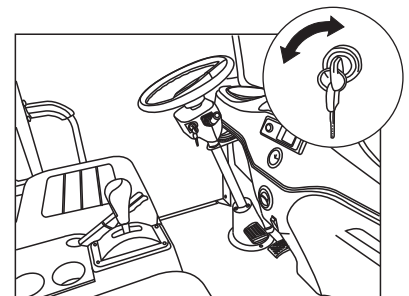
# OPERATION AND CONTROL



## Main power switch "STOP"

1. Press down the "Stop" button to cut off the main power to stop the whole system.
2. Reset the "Stop" button by twisting it and main power starts working.

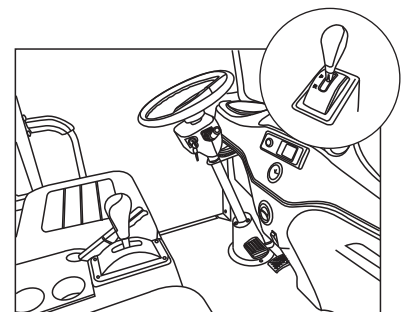
Attention: "Stop" button can be used in emergency to cut off the power and stop the car immediately.



## Key Switch

1. Plug in the key and turn right then turn on the key switch (Note: Shifting the F/R switch to the middle position before turning on Main switch).

2. Turn left and then turn off the switch. Switch can be removed only at this state.



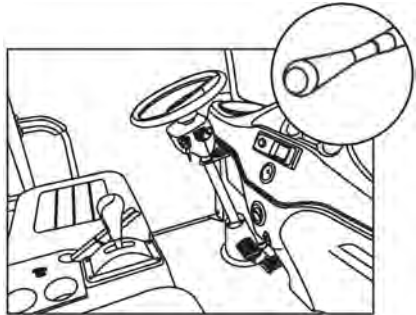
## Forward/Reverse Switch

The Forward/Reverse Switch is used to shift the car to forward, reverse or stop. Forward is upward, reverse is downward, Park is middle. When choosing reverse switch, the reverse buzzer sounds.



Make sure cart has come to a complete stop before switch Forward or Reverse functions. When shifting, first move the switch to the middle position for 2 seconds and select either Forward or Reverse functions. Do not switch between these functions too quickly as you can burn out the sensor switch.

# OPERATION AND CONTROL



## Combined Switch

Includes: horn, side light, wiper switch; End button is horn switch; shift forward to turn on right-hand light; shift backward to turn on left-hand light; shift upward to turn on wiper.

## 48V Voltage Indicator

Voltage Indicator is there to show the electricity level and remaining charge time. The voltage will display fully charged when charging has completed.

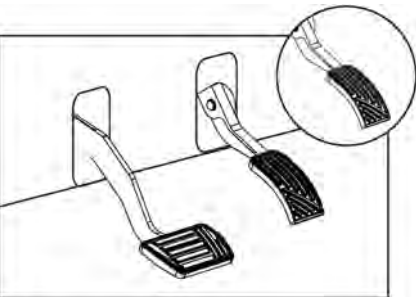
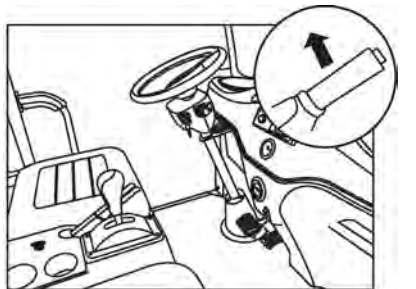
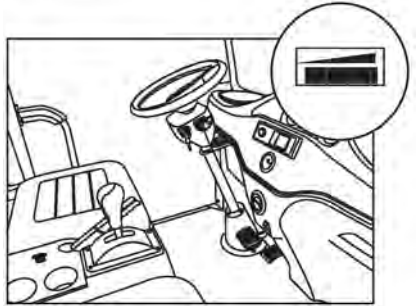
1. Electricity display lowers with the consumption of electricity whilst driving.
2. When battery is low, it will show a warning by moving between first space and second space.
3. When the voltage indicator displays a warning, it shows a flashing light on the first space on the left.

## Accelerator Pedal

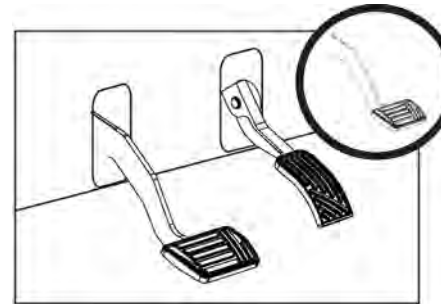
Turn on the key switch, choose correct gear, then release hand brake, place your foot on accelerator pedal and press down slowly. Do not accelerate suddenly.

## Hand Brake

After cart comes to a complete stop, pull up the hand brake to the 5-7th gear to use parking function.



# OPERATION AND CONTROL

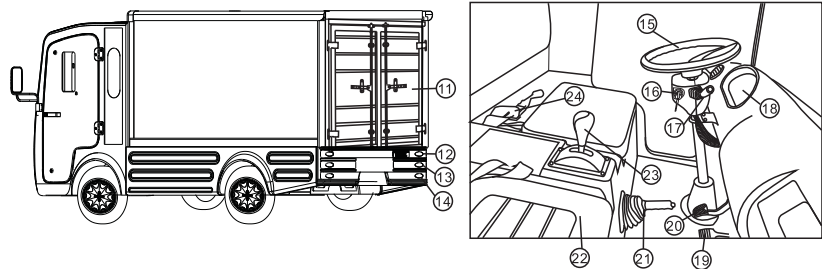
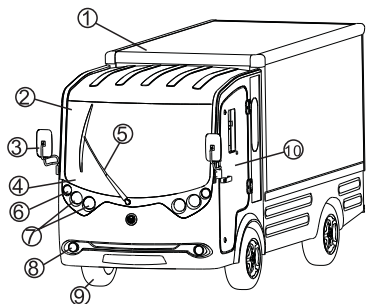


## Brake Pedal

Press Brake Pedal to reduce speed and stop cart.

**Warning: Avoid braking suddenly.**

# STRUCTURE AND SPECIFICATION




## Whole structure

- |                    |                       |                    |
|--------------------|-----------------------|--------------------|
| 1. cargo box       | 9. front wheel        | 17. combo switch   |
| 2. driver cabin    | 10. glass door        | 18. dashboard      |
| 3. side mirror     | 11. door              | 19. throttle pedal |
| 4. windshield      | 12. tail light/yellow | 20. brake pedal    |
| 5. wiper           | 13. tail light/red    | 21. hand brake     |
| 6. turning light   | 14. tail light/white  | 22. seat           |
| 7. head light      | 15. steering wheel    | 23. F/R            |
| 8. front fog light | 16. key switch        | 24. safety belt    |

# STRUCTURE AND SPECIFICATION

Whole car standard configuration and Parameter table  
(Specific configuration will be subject to contract)

	Electric system	Controller	Toyota AC Controller	
		Battery	Premium Maintenance Free Batteries	
		Motor	72v 11kw AC motor	
		Charger	Premium ECAR 25 Amp on board charger	
		Electric throttle	Electrical accelerator 0-5kΩ	
Car body	Windshield	2+2 Laminated glass	Top roof	Fiber glass
	Seat	Leather	floor	Rubber
	Side mirror	Left and right mirrors	Steering	Dual automotive-style strut and self-adjust rack-and-pinion steering
	Lights	72v/12v-400w, head lights, turning light, working light, reverse light, tail light, horn, reverse alarm		
	Body	Premium fiber glass	Chassis	Strong steel pipe welding+ anti-rust pretreatment
	dashboard	Fiber glass dash board, Speedo, apparatus indicator, key switch, combo switch		
	Brake	Front disc, rear drum, hydraulic brake & hand brake		
	Front suspension	Independent suspension, spring +hydraulic shock absorber		
	Rear suspension	Excellent transaxle, gear ratio 12.31:1, steel plates + hydraulic shock absorber		
	Tires	535mm, 12" steel wheel		
	Loading staff	2 persons( include driver)		

## 1 car main specifications

- |                                 |                      |
|---------------------------------|----------------------|
| 1.1 dimension: LxWxH            | 3958X1496X1985mm     |
| 1.2 wheel base                  | 1940mm               |
| 1.3 car weight (with batteries) | 1305kg               |
| 1.4 loading capacity            | 800kg                |
| 1.5 max speed                   | 22km/h               |
| 1.6 mileage                     | 80—100km (flat road) |
| 1.7 mini turning radius         | 5.2m                 |
| 1.8 max climbing ability        | 15%                  |
| 1.9 ground clearance            | 180mm                |
| 1.10 Max. movement after brake  | ≅4m                  |
| 1.11 wheel distances            | 1200mm/1300mm        |

## 2 battery main specifications

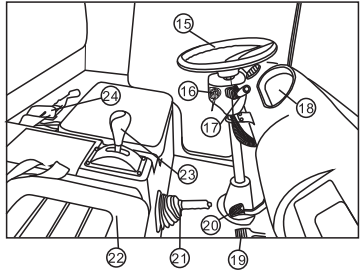
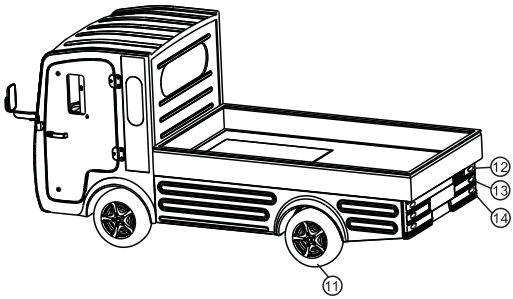
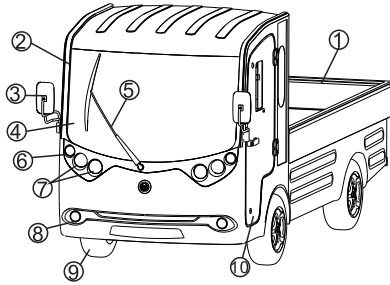
- |                      |                   |
|----------------------|-------------------|
| 2.1 battery type     | Lead acid battery |
| 2.2 capacity         | 270Ah             |
| 2.3 standard voltage | 72V               |

## 3 motor main specifications

- |                           |                 |
|---------------------------|-----------------|
| 3.1 motor type            | DC series motor |
| 3.2 constant output power | 11kw            |
| 3.3 rated speed           | 2800r/min       |
| 3.4 rated voltage         | 72V             |
| 3.5 rated current         | 102A            |
| 3.6 rated                 | 60min           |



# STRUCTURE AND SPECIFICATION




## Whole structure

- |                    |                       |                    |
|--------------------|-----------------------|--------------------|
| 1. cargo box       | 9. front wheel        | 17. combo switch   |
| 2. driver cabin    | 10. glass door        | 18. dashboard      |
| 3. side mirror     | 11. wheel             | 19. throttle pedal |
| 4. windshield      | 12. tail light/yellow | 20. brake pedal    |
| 5. wiper           | 13. tail light/red    | 21. hand brake     |
| 6. turning light   | 14. tail light/white  | 22. seat           |
| 7. head light      | 15. steering wheel    | 23. F/R            |
| 8. front fog light | 16. key switch        | 24. safety belt    |

# STRUCTURE AND SPECIFICATION

Whole car standard configuration and Parameter table  
(Specific configuration will be subject to contract)

	Electric system	Controller	Toyota AC Controller	
		Battery	Premium Lead Acid Batteries	
		Motor	72v 11kw AC motor	
		Charger	Premium ECAR 25 Amp on board charger	
		Electric throttle	Electrical accelerator 0-5kΩ	
Car body	Windshield	2+2 Laminated glass	Top roof	Fiber glass
	Seat	Leather	floor	Rubber
	Side mirror	Left and right mirrors	Steering	Dual automotive-style strut and self-adjust rack-and-pinion steering
	Lights	72v/12v-400w, head lights, turning light, working light, reverse light, tail light, horn, reverse alarm		
	Body	Premium fiber glass	Chassis	Strong steel pipe welding+ anti-rust pretreatment
	dashboard	Fiber glass dash board, Speedo, apparatus indicator, key switch, combo switch		
	Brake	Front disc, rear drum, hydraulic brake & hand brake		
	Front suspension	Independent suspension, spring +hydraulic shock absorber		
	Rear suspension	Excellent transaxle, gear ratio 12.31:1, steel plates + hydraulic shock absorber		
	Tires	535mm, 12" steel wheel		
	Loading staff	2 persons( include driver)		

## 1 car main specifications

- |                                 |                      |
|---------------------------------|----------------------|
| 1.1 dimension: LxWxH            | 4015X1496X1920mm     |
| 1.2 wheel base                  | 1940mm               |
| 1.3 car weight (with batteries) | 1175kg               |
| 1.4 loading capacity            | 1000kg               |
| 1.5 max speed                   | 22km/h               |
| 1.6 mileage                     | 80—100km (flat road) |
| 1.7 mini turning radius         | 5.2m                 |
| 1.8 max climbing ability        | 15%                  |
| 1.9 ground clearance            | 180mm                |
| 1.10 Max. movement after brake  | 4m                   |
| 1.11 wheel distances            | 1200mm/1300mm        |

## 2 battery main specifications

- |                      |                   |
|----------------------|-------------------|
| 2.1 battery type     | Lead acid battery |
| 2.2 capacity         | 270Ah             |
| 2.3 standard voltage | 72V               |

## 3 motor main specifications

- |                           |                 |
|---------------------------|-----------------|
| 3.1 motor type            | DC series motor |
| 3.2 constant output power | 11kw            |
| 3.3 rated speed           | 2800r/min       |
| 3.4 rated voltage         | 72V             |
| 3.5 rated current         | 102A            |
| 3.6 rated                 | 60min           |

# OPERATION AND CONTROL

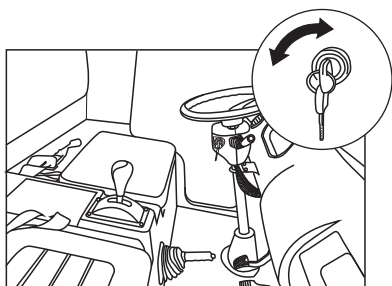
## Main power switch "STOP"



1. Press down the "Stop" button to cut off the main power.
2. Reset the "Stop" button by twisting it and will re-engage main power
3. The Main "STOP" switch is located on the left side of the dashboard

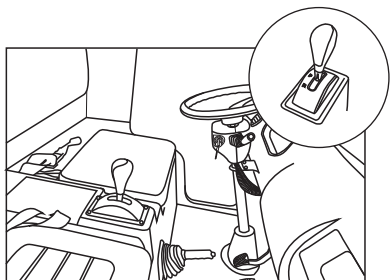
Attention: "Stop" button can be used in an emergency to cut off power and immediately stop cart.

## Key Switch



1. Plug in the key and turn right then turn on the key switch (Note: when switching between F / R, always turn into the middle position for at least 2 seconds first)
2. Turn left and then turn off the switch. Key can be removed only at this state.

## Forward/Reverse Switch



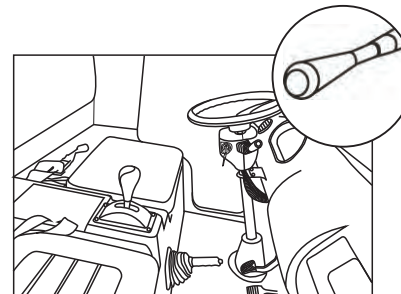
The Forward/Reverse Switch is used to shift the car to forward, reverse or stop. Forward is upward, reverse is downward, Park is middle. When reversing, buzzer will sound



Make sure cart has come to a complete stop before switch Forward or Reverse functions. When shifting, first move the switch to the middle position for 2 seconds and select either Forward or Reverse functions. Do not switch between these functions too quickly as you can burn out the sensor switch.

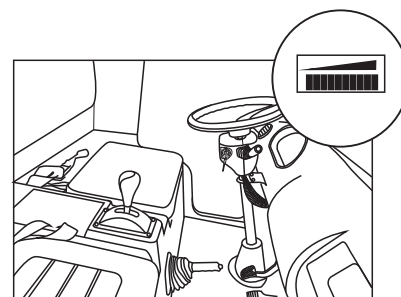
# OPERATION AND CONTROL

## Combined Switch



Includes: horn, side light, wiper switch; End button is horn switch; shift forward to turn on right-hand light; shift backward to turn on left-hand light; shift upward to turn on wiper.

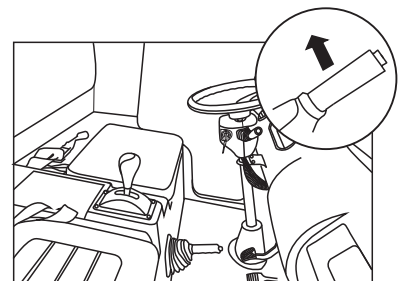
## 48V Voltage Indicator



Voltage Indicator is there to show the electricity level and remaining charge time. The voltage will display fully charged when charging has completed.

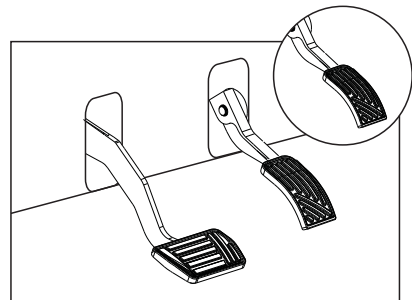
1. Electricity display lowers with the consumption of electricity whilst driving.
2. When battery is low, it will show a warning by moving between first space and second space.
3. When the voltage indicator displays a warning, it shows a flashing light on the first space on the left.

## Accelerator Pedal



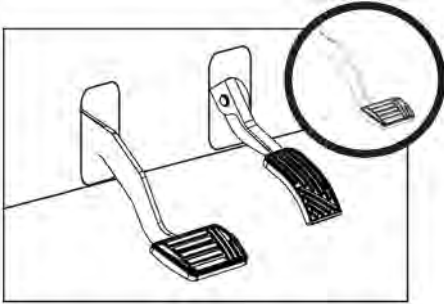
Turn on the key switch, choose correct gear, then release hand brake, place your foot on accelerator pedal and press down slowly. Do not accelerate suddenly.

## Hand Brake



After cart comes to a complete stop, pull up the hand brake to the 5-7th gear to use parking function.

# OPERATION AND CONTROL

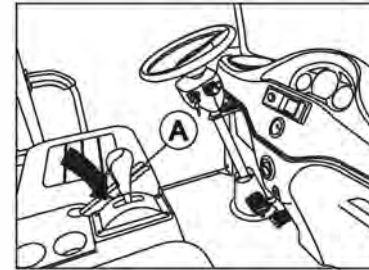


## Brake Pedal

Press Brake Pedal to reduce speed and stop car.

Warning: Avoid sudden braking

# PRE OPERATION



## HAND BRAKE

Always test to make sure hand brake works correctly.

Ⓐ hand brake

## NOTE

Release the hand brake before stepping on the accelerator pedal.

## ⚠ WARNING

Before checking the accelerator pedal, make sure that the main switch is in the "OFF" position.



Make sure that the accelerator pedal operates smoothly.

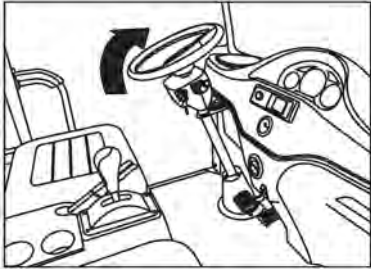
Ⓑ Accelerator pedal

## BODY AND CHASSIS

Before each use, carefully inspect the car body and chassis for damage and/or missing parts.

# PRE OPERATION

## STEERING SYSTEM



Check the steering system for excessive movement.

- Moving the steering wheel up and down, and back and forth.
- Turning the steering wheel slightly to the right and left.

If you feel excessive freeplay or hear rattling sounds, this may indicate loose steering components, consult an ecar dealer immediately.

## BACK UP BUZZER

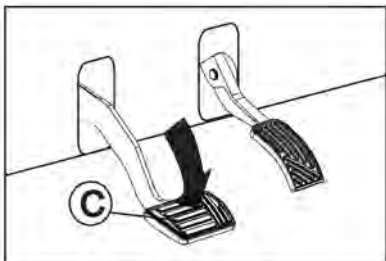
Check the back up buzzer by moving the switch. Switch to "REV" for reverse. A buzzer will sound.

## PEDAL OPERATION

Check the following pedal controls for proper operation. If a pedal does not work properly, consult an ecar dealer.

## BRAKE PEDAL

Make sure that the brake pedal feels firm when pressed and returns to its original position when released.



Ⓒ Brake pedal

# PRE OPERATION

Pr-operation checks should be made each time you use your golf cart. Get in the habit of performing the following checks so that they become second nature.

## ⚠ WARNING

Be sure that the main switch key is removed before performing the pre-operating checks to prevent accidents and apply the parking brake to keep the car from moving.

## PRE-OPERATION CHECKLIST

Before each use, please check the following

- ✓ Batteries
- ✓ Tire condition
- ✓ Steering system
- ✓ Back-up buzzer
- ✓ Pedal operation
- ✓ Body and chassis

## SEAT

Open the seat for checking and servicing

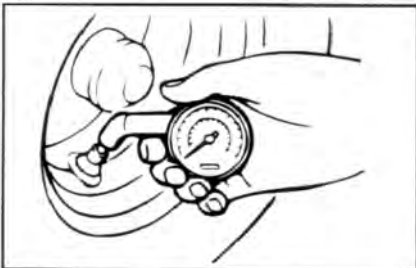
# PRE OPERATION

## BATTERY

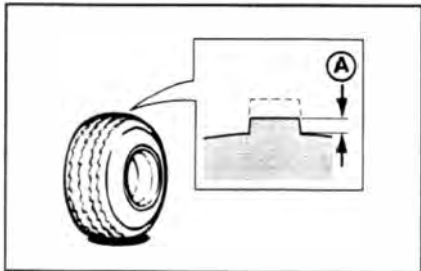
Charge batteries before each use. See charging steps in chapter 6. Check that the batteries are held securely in place to prevent the batteries from vibration or jarring. Also check that no prevent battery acid has spilled from the batteries. Check the battery terminals for corrosion.

## TIRE CONDITION

Check the tire air pressure before operating cart.



Tire pressure  
36PSI



Tire wear limit  
Check the tire surface for damage, cracks or embedded objects. When tire tread wears down to 0.04 (lmm), replace the tire immediately.

Ⓐ Wear limit

# 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(A minimum of 5 air changes perhour is recommended)

Follow the instructions contained in your battery charger's owner's manual to charge the batteries in your cart.

The following is a summary of the charging steps.

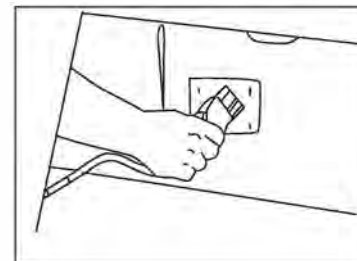
Do not attempt to recharge your car's batteries without thoroughly reading and understanding the manual.

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 used for this car. Thoroughly read and understand the manual.





# MAINTENANCE

## Battery Care

### **! WARNING**

Battery electrolyte is poisonous and dangerous, causing severe burns, etc. It contains sulfuric acid. Avoid contacting with skin, eyes and clothes.

Antidote:

EXTERNAL: Wash with water.

INTERNAL: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately.

EYES: Flush with water for 15 minutes and get prompt medical attention. Batteries produce explosive gases. Keep sparks, flames and cigarettes away. Make sure it is ventilated when charging or using in enclosed space. Always shield eyes when working near batteries.

### **! WARNING**

## Keep out of reach of children.

Batteries provide power for your electric car and must be properly maintained and recharged for maximum performance and service life.

The ways to maintain your batteries:

1. Clean the top of the batteries with soda water if necessary to remove corrosion.

### **CAUTION**

Do not allow cleaning material to enter battery cells.

2. Check the fluid level before and after charging.

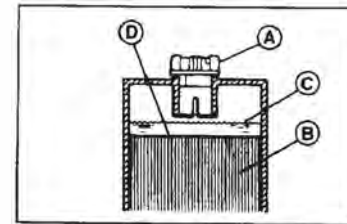
# MAINTENANCE

Before charging:

Only add distilled water. If fluid is below the top of the plates, add just enough to cover plates.

After charging:

check that the fluid level is appropriately 1/4 to 1/2 inch above the plates and 1/4 to 3/8 inch below the level is low. Add distilled water carefully. Adding distilled water after charging helps prevent boiling over.



A Battery cap

B Plates

C Maximum fluid level

D Minimum fluid level

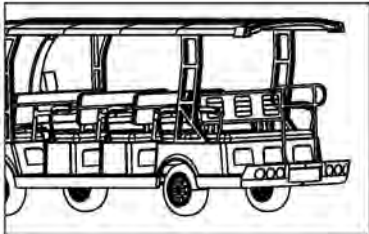
Normal tap water contains minerals which are harmful to a battery; therefore, refill only with distilled water.

3. Using a hydrometer, check the specific gravity of the battery fluid in each cell against the readings on the chart below. Consult an ecar dealer if any low readings are found.

Temperature		Satisfactory
° F	° C	Hydrometer Reading
120	48.9	1.244
110	43.3	1.248
100	37.8	1.252
90	32.2	1.256
80	26.7	1.260
70	21.1	1.264
60	15.6	1.268
50	10	1.272
40	4.4	1.276
30	-1.1	1.280

# MAINTENANCE

check the oil level in the gear box



## Gearbox oil

1. Place the car on a flat horizontal level
2. Lift the seat
3. Remove the oil plug
4. Pour in the gear oil slowly until it reaches the top

recommended oil :  
SAE 90 gearoil

Gearcase capacity :

5. A small amount of overflow is okay

## CAUTION

Foreign materials are forbidden from entering the gearbox

6. Put in the oil plug

## NOTE:

For oil Replacement, please consult your ECAR dealer or other qualified mechanic.



# MAINTENANCE

## ⚠ WARNING

Do not disconnect the DC output cord from the battery receptacle when the charger is on as this may cause an explosion.

3. The charger will turn off automatically when the batteries reach full charge.
4. After the charger has turned off disconnect the DC output plug from the golf car receptacle by grasping the plug body and pulling the plug straight out of the receptacle.

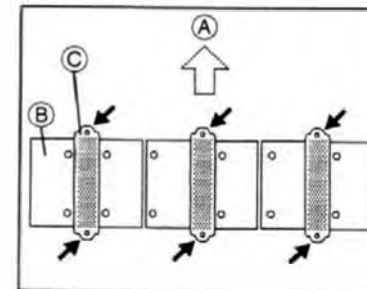
## BATTERY INSTALLATION

## ⚠ WARNING

When installing the batteries, do not put wrenches or other metal objects across the battery terminals. An arc can occur causing the batteries to explode.

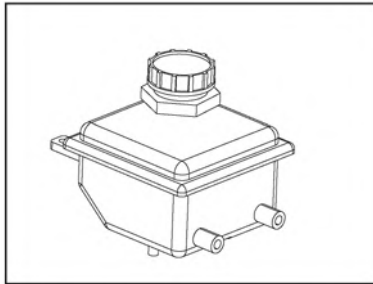
1. Install the battery hold down plates as shown.

- (A) Forward
- (B) Battery
- (C) battery fitting plates



# MAINTENANCE

## Brake Oiler:



The brake oiler of the S 14 sight seeing cart is located below left storage of dashboard; brake oiler of S2.B cargo car is located on the left side of dashboard.

In order to maintain the performance of the brake system, add brake oil if the liquid is less than half.

## PERIODIC MAINTENANCE CHARTS

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

### **⚠ WARNING**

Make sure to turn off the main switch and apply the hand brake when you perform maintenance. If you are not familiar with machine serving, this work should be done by a Ecar dealer or qualified mechanic.

# MAINTENANCE

C=Check CA=CheckAdjust R=Replace S=Service CL=CleanandLubricate L=Lubricate

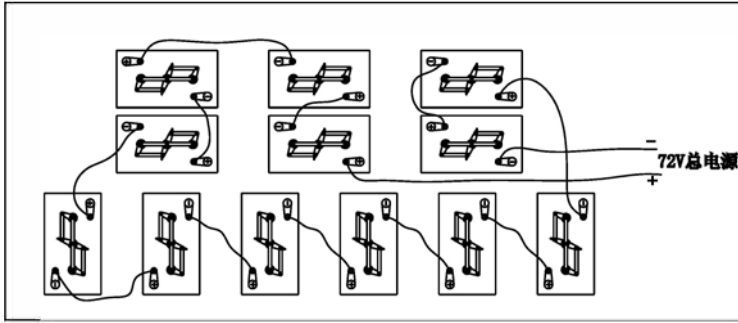
Remarks	Pre-Operation	20 rounds 20 hours 20 hours 160kms( Every Month)	125 rounds 125 hours 600 miles 1000kms ( Every6	250 rounds 250 hours 1200 miles 1000kms( Every Years)	500 rounds 500 hours 2500 miles 4000kms( Every2 Years)	1000 rounds 1000 hours 5000 miles 8000kms (Every 4	Page
<b>Charge</b>	S	S	S	S	S	S	8-5
Clean Battery tops, for tightness of hold-down screws and terminals	S	S	S	S	S	S	8-3/6-2
Check brake pedal freeplay and adjust if necessary	C	CA	CA	CA	CA	CA	8-9/8-10
Check steering operation	C	C	C	C	C	C	6-3
Check tire pressure tread depth tire surface for damage	C	CA	CA	CA	CA	CA	6-2
Check body and chassis, for damage	C	C	C	C	C	C	6-4
Check tightness of all bolts, nuts and screw	C	C	C	C	C	C	*
Check reverse buzzer	C	C	C	C	C	C	6-3
Check electrolyte level		C	C	C	C	C	8-3/8-4
Check for loose or broken connections		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	*
protectant				S	S	S	*
Check shoe lining thickness and rear axle beating play				C	C	C	*
Check steering knuckle bushing freeplay/Adjust wheel alignment				CA	CA	CA	*
Check wheel not tightness front wheel bearing play				C	C	C	8-9/*
Check gear box oil level and leakage				C	C	C	8-8
Check operation and adjust pedal stop if necessary				CA	CA	CA	*
Replace gear box oil						R	*
Check for grease leakage; adjust gear box if						CA	8-8

Items without a page number reference should be serviced by approved agent or qualified technician.

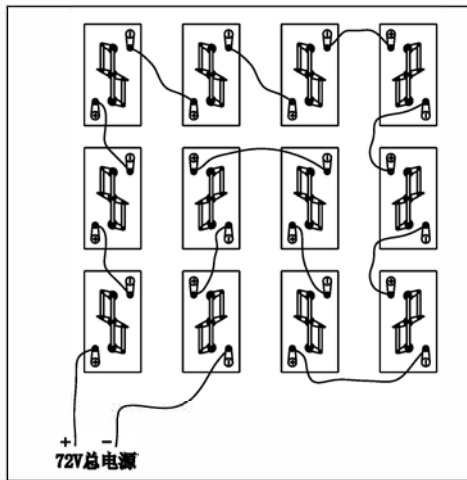
# MAINTENANCE

2. Lk cables as per the diagram

S14.B



S2.B



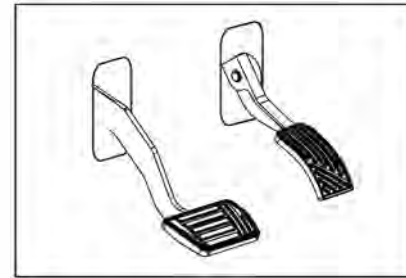
## ⚠ WARNING

When installing the batteries:

1. Please carefully place the cables down, making sure the cables do not crossover the vent caps
2. Always remove the negative(-) cable from the motor controller first and install it last.
3. Do not tighten the battery nuts too much, as this can damage the battery case.

# MAINTENANCE

Brake system:  
free adjustment



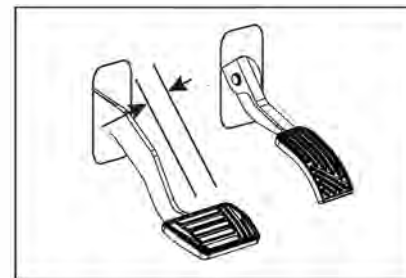
## CAUTION

Before adjusting the brake, tread the brake pedal several times to adjust the brakes .

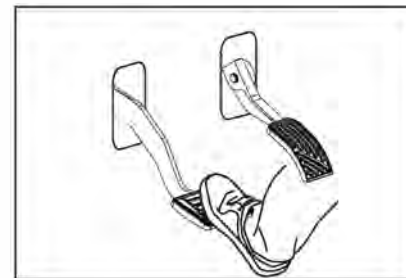
To adjust the brake distance :

1. Remove the cover of the dash board
2. Check the brake pedal by pressing with two fingers and with proper force while measuring the forward distance of the pedal until resistance is felt.

Brake pedal forwarding distance :  
85-95mm ( 3.35-3.74 inch)



3. If the brake system doesn't work correctly , you should tread the brake pedal more to exhaust the air in the oil tube .



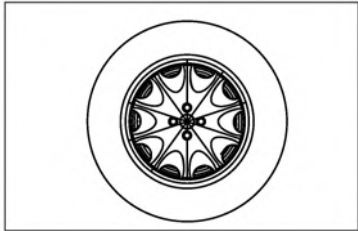
## ⚠ WARNING

Do not loosen the brake cables due to air leakage , which will also affect the brake adjustment and result in the brake malfunctioning.

# MAINTENANCE

## CAUTION

Be sure the main switch is in the "off" position, before you check the wheel braking system.



## Tire Replacement

Removing or installing a tire:

1. Take out the wheel nuts, after the cart once the cart is completely still/
2. Elevate the cart with a jack and take out the tire and screw bolt.
3. Use the steps above conversely, when installing the tire

wheel nut tightening torque:

105NM-120NM •

## Braking Adjustment

The brake of this cart can be adjusted easily by the user.

Please use your foot to press the brake pedal, making sure it is functioning correctly.

## ⚠ WARNING

Consult your Ecar dealer before using the cart if you have any problems with the brakes. Serious accident can be caused in case of brake failure.

# STORAGE

Perform the following preparations when leaving your golf cart unused for along periods of time:

NOTE:

Turn the main key switch "OFF", remove the key, and keep in a safe place.

## CHASSIS PREPARATION

1. Verify the air pressure of the tire to be 30 psi ( 3 kgf/cm<sup>3</sup>);
2. Clean the outside of the car with anti-rust oil.
3. Cover the cart 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 .
2. Disconnect the cables in case of prolonged storage.

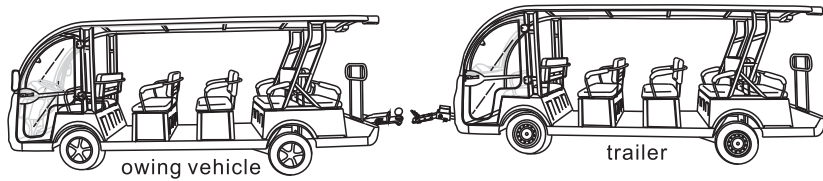
## CAUTION

Cleaning products are forbidden to enter battery cells

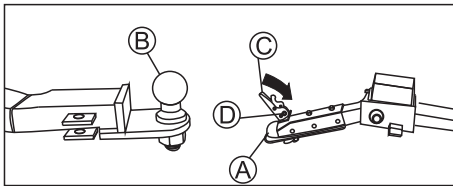
3. Clean the top of the batteries with baking soda and water to avoid erosion.



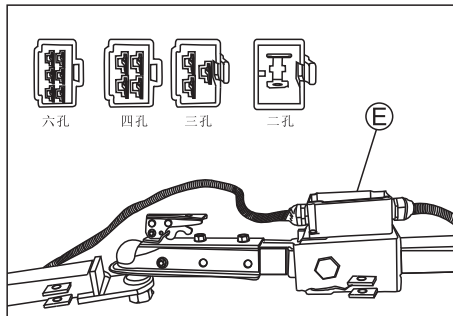
# S14 TRAILER ASSEMBLY AND DISASSEMBLY



1. When parking tow carts in a straight line keep a distance of 1m from each cart



2. Move the trailer to a suitable position, then remove screw D first. Hang the trailer cover A on the ball B, press down ball lock C, and after that install screw D back and tighten.



3. Open box E, and connect battery cables according to the socket. All cables must be well connected.

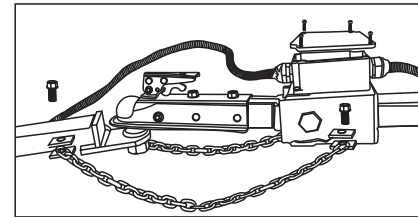
## CAUTION

Please do not take all the cable terminals out from the socket to make sure all the cables are in proper order.

When separating towing vehicle and trailer please open the power supply box first, then loosen the harness. Fix the point of the towing vehicle from the power supply box and take out the plugs.

# S14 TRAILER ASSEMBLY AND DISASSEMBLY

4. Tightening the fixing screw for water-proof cover and protection chain.



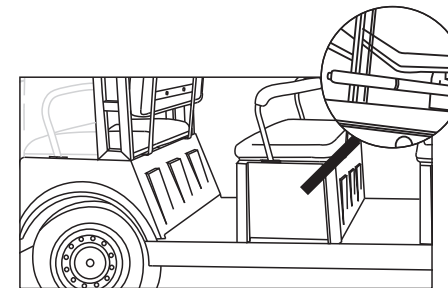
When reconnecting the trailer, leave a suitable harness, not too short, that the car will drag on the ground. Test the length of the harness needed for turning.

## WARNING

Please remove harness first.

## Hand Brake Checking

1. Please check that hand brake is working correctly.
2. The hand brake is located inside the second row seat.



## WARNING

When leaving the cart unattended for extended periods, please pull the hand brake of the towing vehicle first then the hand brake of the trailer. Even when parked separately make sure hand brakes are engaged.

# STORAGE

Perform the following preparations when leaving your golf cart unused for long periods of time

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

Turn the ignition "OFF", remove the key, and keep in a safe place.  
\_\_\_\_\_

## CHASSIS PREPARATION

1. Check the air pressure of the tire to make sure it's 30 psi ( 3 kgf/cm<sup>3</sup>);
2. Clean the outside of the cart with anti-rust oil.
3. Cover the cart and store it in a dry and well-ventilated place.

## BATTERY PREPARATION

1. Recharge the batteries and check fluid levels at least once a month .
2. Disconnect the cables in case of prolonged storage.

CAUTION \_\_\_\_\_

**Cleaning products are forbidden to enter battery cells**  
\_\_\_\_\_

3. Clean the top of the batteries with baking soda and water to avoid erosion.

# WARRANTY AND AFTER-SALES SERVICE

## GOLF CAR WARRANTY

E-CAR by LVTONG hereby warrants that any new E-CAR golf car purchased from an authorized E-CAR dealer will be free from defects in material and workmanship for two years from date of purchase, (2 years on batteries), subject to the stated limitations.

**DURING THE PERIOD OF WARRANTY** any authorized E-CAR Dealer will, free of charge and at E-CAR'S option, repair or replace any part adjudged defective by E-CAR due to faulty workmanship or materials. Parts used in warranty repairs will be warranted for the balance of the machine's warranty period. All parts replaced under warranty become the property of E-CAR.

**GENERAL EXCLUSIONS** from this warranty shall include any failures caused by

- Abnormal strain, neglect, or abuse including lack of proper maintenance or use contrary to the Owner / Operator Manual instructions.
- Accident or collision damage.
- Installation of parts or accessories that are not original equipment.
- Fading, rust or deterioration due to exposure or ordinary wear and tear.
- Modifications or alteration that affects the car's condition, operation, purpose or durability.
- Damage due to improper transportation.
- Acts of God, i.e. Lightening hail damage, flood, fire, etc.

## WARRANTY AND AFTER-SALES SERVICE

**THE CUSTOMER'S RESPONSIBILITY** under this warranty shall be to:

1. Operate and maintain the golf car as specified in the appropriate Owner's / Operator's Manual.
2. Give notice to an authorized E-CAR dealer of any and all apparent defects within ten (10) days after discovery, and make the machine available at that time for inspection and repairs by dealer's authorized representative.

**WARRANTY TRANSFER:** To transfer any remaining warranty from the original purchaser to any subsequent purchaser, it is imperative that the machine be inspected and registered for warranty by an authorized E-CAR Dealer in order for this warranty to remain in effect, this inspection and registration must take place within ten (10) days after transfer. An inspection and registration fee will be charged for this service.