



MANUAL

CE

We meet the SJ/T 31049-1994 Standard after the quality inspection.

Read and Understand the manual before operating the cart.

Preface

Dear Users,

Many thanks for purchasing our company 's electric cars while adopting advanced technology of Europe and the US and main imported components, the cars are also with the innovative design, luxury professional painting and high strength steel welding material ,all of which make our cars look fashionable, reliable, beautiful and excellent in performance. With light weight, strong climbing ability, low noise, convenient charging, good braking performance and reasonable price, our cars are the most advanced in the electric car field at present.

In order to help users operate and maintain the car correctly,make the car play the best performance and length its working time,hereby we make the operation manual. Please read it carefully.

The product is always in improving. If the manual doesn't match with the real product, the real product is the standard.

Reproduction without permission is prohibited.

IMPORTANT MANUAL INFORMATION

Particularly important information is distinguished by using the following symbols and notes:



THE SAFETY ALERT SYMBOL ATTENTION! BE ALERT! YOUR SAFETY IS INVOLVED!

A WARNING

Failure to follow WARNING instructions could result in severe injury or death to the golf car passengers, bystanders, or the person driving the golf car.

CAUTION

This message describes special precausions that must be taken so as to avoid damage to the car.

NOTE:

This message provides additional main information.

NOTE: ____

Ecar Golf 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 questions concerning this manual, please contact your Ecar Golf dealer and we will work it should be out This manual considered a permanent part of your golf cart and should stay with the car when resold.

⚠ WARNING

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

Contents

Operation · · · · · · · · · · · · · · · · · · ·	••	1-4
Structure & Specifications · · · · · · · · · · · · · · · · · · ·	• •	5-6
Operation & Control	• •	7-9
Pre-operation Check · · · · · · · · · · · · · · · · · · ·	10	-13
Maintenance ······	14	-23
S8.FA operation and control · · · · · · · · · · · · · · · · · · ·	24	-26
Storage and warranty · · · · · · · · · · · · · · · · · · ·	27	-29

SAFETY OPERATION

Before operating:

- 1. read this manual and all the other operations or labels marked on the car body before operating
- 2, only authorized people should drive the car only in the designated area
- 3, do not OVERLOAD
- 4. do not drive the car if drinking any alcohol or drugs which could distract the driver's vision and judgment



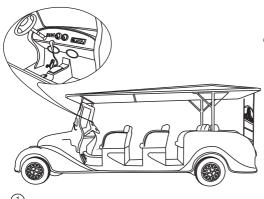


When operating:

- 1. Keep your body in the car and keep well-seated when the car starts moving
- 2.do not start the car until all passengers are seated
- 3. Keep your hands on the steering wheel and your eyes on the path ahead
- 4.Be especially careful when backing the car incrowded places.Pleasekeep watching your rear and roll back slowly
- 5. Avoid sudden starts and braking
- 6. Please accelerate or decelerate the car according to the road rules
- 7.Do not turn the steering wheel too sharply at high speeds
- 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 approval

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.

OPERATION INSTRUCTIONS

Brake pedal



Accelerator pedal

- Read the manual and safety instruction labels on the golf car before
- Be sure that passengers are seated stably .
- Select "forward " or "reverse " key .
- Tread the accelerator to start moving; and tread the parking pedal
- Please drive safely according to the terrain ,visibility and driving experience; please drive carefully in the crowded and slippery
- When parking, please tread the parking pedal and draw up the handle of hand brake. When starting the car, please release the handle .

WARNING/AVERTISSMENT



EXPLOSIVE GASES









- Please read the safety and instruction labels on the steering wheel before operating;

- Prease read the safety and institution raises on the steering wheel
 Start the car untill all passengers are seated well;
 Offires slow when turning;
 Tread the parking pedal before leaving the car;
 Pall the main switch and turn the key off when not using the car;
 The passengers should be seated stably and hold the armrest tight;
- Keep hands and feet inside the car

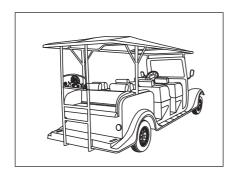




OPERATION SAFETY







Ecar golf carts are designed to be simple to operate. However, be sure to follow these steps:

BEFORE OPERATING:

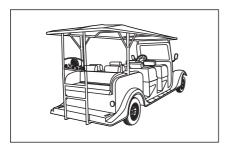
- 1. read this manual and all the other operations or labels marked on the car body before operating.
- 2. do the pre-operation checks in Section 6 of this manual.
- 3. only authorized people should drive the car only in the designated area from the owners.
- 4. do not overload, the cart only has a certain weight limit
- 5. do not drink any alcohol or have any drugs which could distract the driver's vision and judgement.
- 6. do not drive the car on public roads, streets, highways etc. Such use is illegal and dangerous, because golf&sightseeing car is kind of off-board vehicle, and collision might happen.

WHEN OPERATING:

- 1. make sure your body does not stick out of the car, and remain firmly seated when driving.
- 2. do not start the car until all passengers are seated.

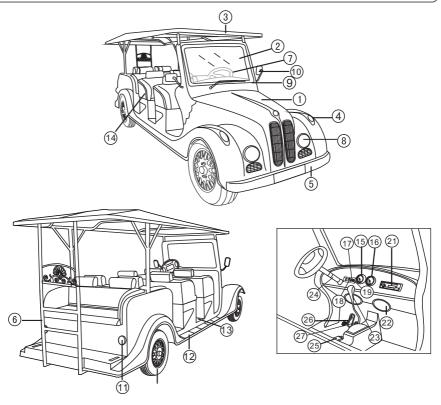
OPERATION SAFETY





- 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 watching back 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 on an angle.
- 6. Do not make any modification or addition about the operation safety and loading capacity, and this whole manual.

Structure & Specifications



Structure:

- 1 Car body
- 2 Front windshield
- 3 Sunroof
- 4 Front turning light
- (5) Front bumper
- 6 Rear seat handle
- 7 Steering wheel
- 8 Front light
- 9 Scrape arm
- 10 Rear mirror
- 1 Rear light
- 19 Hostess plate
- 13 Carpet
- (14) Seat cushion
- 15 Metert

- ¹⁶ Voltage indicator
- 17 Scrape switch
- (18) Front light switch
- (19) Key switch
- ② Electricity meter
- (21) DVD
- Speaker
- 23 Shaft
- 24) sicula
- ²⁵ hand brake handle
- 26 brake pedal
- accelerator pedal
- tire

CONFIGURATION AND SPECIFICATION

Configuration and specification sheet:

Ele	controller	Toyota AC Controller				
ctrc	battery	Maintenance-Free Gel Batteries 8pcs*6V				
nic	Motor	AC motor 3.7KW				
Electronic system	charger	Intelligent charger, input 220V, output 48V, 25A				
lem	Electric accelerator	ccelerator Input 48V,0-5V output				
	Front windshield	2+2 fold windshield	Sunroof	capsule		
В	Seat	Leather cover	Floor	Antiskid floor mat		
ody	Side mirror	Left&right side each	steering	Two way gear steering system, automatically backlash compensation		
CC	Light&signal	Front light, turning light, rear light, horn, reverse beeper				
configuration	Car body	1 1001 glass	chassis	High tensile steel welding structure, electrophoresis treatment for anti-rust		
gurat	Meter	Fiber glass dashboard, meter, voltage indicator, mp3 player, speaker, key switch, group switch, mileage				
10	Brake system	Front disc rear drum+hand brake				
n	Front suspension	Spring+independent hydraulic suspension				
	Reartransaxle & suspension	Transaxle speed rate 12.31:1, semi-independent hydraulic suspension				
	tire	165/70R13 79N				
	passenger	8 including driver				
4	::::::					

1. specification

1.2 wheelbase	3465mm
1.3weight(including batter)	860kg
1.4load capacity	640kg
1.5max speed	25km/h
1.6mileage	70-90km/
	6 = 0 0

1.7min turning radius6500mm1.8max climbing ability15%1.9min clearance142mm1.10brake distance≦12m

1.11tread front1200mm/rear 1210mm

2.battery specification lead acid battery

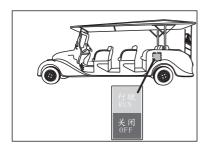
2.1battery type 216Ah 2.2volume 48V

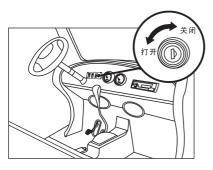
2.3 voltage

3.motor specification

3.1 motor type
3.2 rated power
3.3 rated rotating speed
3.4 rated voltage
3.5 rated currency
3.6 ration

DC motor
3.7kw
2500r/min
48V
105A
15min





Turning On Main Switch

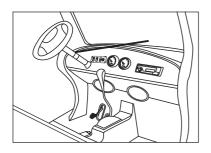
- Shifting the switch to RUN position then you can turn on the power supply of car.
- 2. Shifting the switch to OFF position and then can turn off the power supply of car.

Key Switch

- 1. Plugging in the key and turn right then can turn on the key switch (Note:Shifting the F/R switch to the middle position before turning on Main switch).
- 2. Turning left and then you can turn off the switch. Switch can be removed only at this state.

₩ WARVING

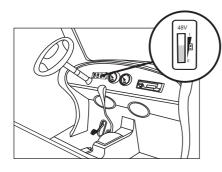
Completely stop car before shifting F/R switch. When shifting F/R switch, please turn switch to middle position for 2s at first, then Forward switch or Reverse switch. Don't shift F/R switch too quickly in case the sensor will burn out or switch will malfunction.



Combined Switch

includes:horn,side light,wiper switch; End button is horn switch; shifting forward to turn on right side

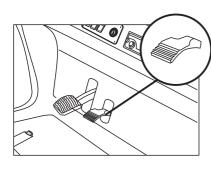
light; shifting backward to turn on left side light; shifting upward to turn on wiper.



48V Voltage Indicator

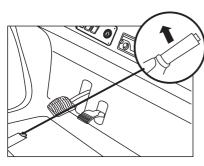
Voltage Indicator is to show the electricity and remains custom to charge on time. The voltage will show fully charged when charing is complete.

- 1. Electricity display reduces with the consumption of electricity during operation
- 2. When electricity is close to empty, a warning signal will show by moving between first space and second space;
- 3. When electricity enters into undercharger, a warning will display by flashing of first space in left.



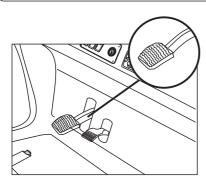
Accelerator Pedal

Turning on the key switch, choosing right gear, then loosening hand brake, putting your foot on accelerator pedal and pressing down slowly. Do not accelerate too fast.



Hand Brake

After fully stopping car, pull up hand brake about 5-7 gear to release parking function.



Brake Pedal

Press Brake Pedal to reduce speed and stop car.

Warning: Avoid braking suddenly.

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

⚠ WARNING

Be sure that the main switch key is removed before performing the pre-operating checks to prevent accidental starting, 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

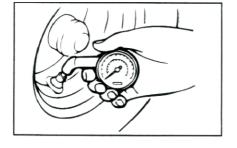
BATTERY

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 to prevent battery a cid from spilling. Check the battery terminals for corrosion.

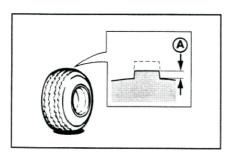
TIRE CONDITION

Check the tire air pressure before the operation of car.



Tire pressure

36PSI



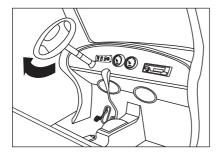
Tire wear limit

Check the tire surface for damage, cracks or embedded objects. When tire tread wears down to 0.04(1mm), relace the tire.



A) Wear limit





Check the steering system for excessive freeplay.

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

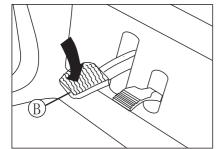
If you feel excessive freeplay or hear ratting sounds, which may indicate loose steering components, consult an ecar dealer immediately.

BACK UP BUZZER

Check the back up buzzer by moving the drive select switch to "REV" for reverse.

PEDAL OPERATION

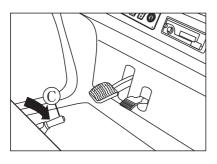
Check the following pedal controls for proper operation. If a pedal does not work properly, consult an ecar dealer.



BRAKE PEDAL

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

B Brake pedal



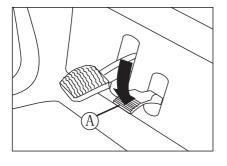
HAND BRAKE

Make sure that the hand brake has a good parking brake effect.

(C) hand brake

NOTE-

Release the hand brake before pressing on the accelerator pedal.



⚠ WARNING

Before checking operation of 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.

PERIODIC MAINTENANCE CHARTS

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

A 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 other qualified mechanic.

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 (Every 6	250 hours	500 rounds 500 hours 2500 miles 4000kms(Every 2 Years)	rounds	Page
Pre-Operation	Charge	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
)per	Check brake pedal freeplay and adjustif necessary	С	CA	CA	CA	CA	CA	8-9/8-10
atio	Check steering operation	С	С	С	С	С	С	6-3
ň	Check tire pressure tread depth tire surface for damage	С	CA	CA	CA	CA	CA	6-2
	Check bode and chassis, for damage	С	С	С	С	С	С	6-4
	Check tightness of all bolts,nuts and screw	С	С	С	С	С	С	*
	Check reverse buzzer	С	С	С	С	С	С	6-3
Ę	Check electrolyte level		С	С	С	С	С	8-3/8-4
ery	Check for loose or broken connectionsw		С	С	С	С	С	*
Every month	Clean Lube Pedal controlarea		CL					*
Every6 month	Check all wire insulation for crack and/or worn spots			С	С	С	С	*
	Check shock absorbers for oil leaks and damaged springs			С	С	С	С	*
	Perform a discharge test				S	S	S	*
	protectant				S	S	S	*
Every year	Check shoe lining thickness and rear axle beating play				С	С	С	*
	Check steering knuckle bushing freeplay/Adjust wheel alighment				CA	CA	CA	*
	Check wheel not tightness front wheel bearing play				С	С	С	8-9/*
	Check gear box oil level and leakage				С	С	С	8–8
	Check operation and adjust pedal stop if necessary				CA	CA	CA	*
Ā	Replace gear box oil						R	*
Every4month	Check for grease leakage; adjust gear box if						CA	8-8

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

This manual doesn't contain these procedures. They are containerd in the Service Manual

Battery Care



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

Antidote:

EXTERNAL: Flush 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.



Keep out 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.

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



B Plates

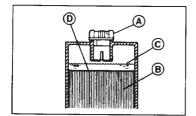
C Maximum fluid level

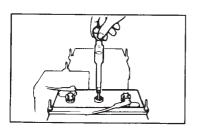
D Minimum fluid level

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 exar 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		





BATTERY CHARGING



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 per hour is recommended)

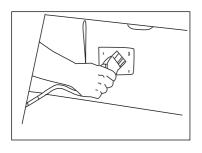
Follow the instructions contained in your battery charger's owner's manual to charge the batteries in your car.

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.



⚠ WARNING

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

3.the charger will turn off automatically when the batteries reach full charge.
4.after the charger has turned off,

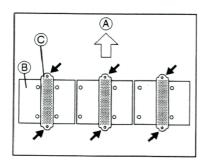
disconnect the DC output plug from the golf car receptacle by grasping the plug body and pulling the plug straight out of the receptacle.

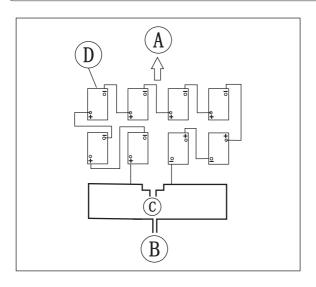
BATTERY INSTALLATION

⚠ WARNING

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

- 1.installthebatteryhold downplates as shown
- (A) Forward
- B Battery
- © battery fitting plates





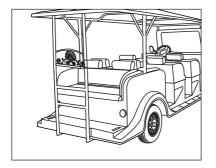
- 2.link the cables as per picture
- A) front
- B) to receptacle
- C)to motor control unit
- D)between the batteries

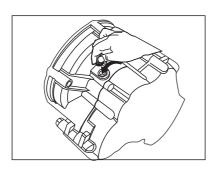
WARNING

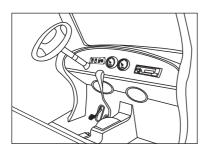
When installing the batteries:
1.Please carefully place the cables
down,making sure the cables not
crossover the vent caps
2.always remove the
negative(-)cable from the motor
controller first,and install it at last

CAUTION

Do not overtighten the battery nuts, too much force will damage the battery case







check the oil level in the gearbox

gearbox oil

- 1.placethecaron a flat horizontal level
- 2.lift the seat
- 3.remove the oil plug
- 4.pour in the gear oil slowly until it reaches the opening

recommended oil: SAE 90 gearoil

Gearcase capacity:

5.it's fine for oil overflowing.

Make it stop when it flows out

CAUTION .

Foreign objects are forbidden from getting into the gearbox

6.put the oil plug back

NOTE:

For oil changes, please consult your ecar dealer or another qualified mechanic.

CAUTION

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

Tire Replacement

For removing or installing a tire:

- 1. take out the wheel nuts, after the car is completely still.
- 2. elevate the car with a jack and take out the tire and the screw bolt.
- 3. use the steps above conversely, when installing the tire

wheel nut tightening torque:

105NM-120NM

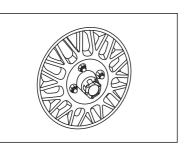
Braking Adjustment

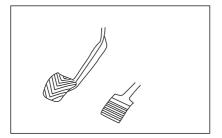
The brake of this car can be adjusted by yourself.

Please use your foot to press the braking pedal, making sure it has been functioning properly

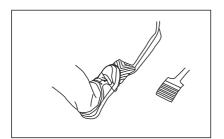
A WARNING

Consult your Ecar dealer before using the car,if you have any problem with the brake. Because serious accident would be caused from brake failure.





ac as ma



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 with proper force and measuring the forwarding distance of the pedal until resistance is felt.

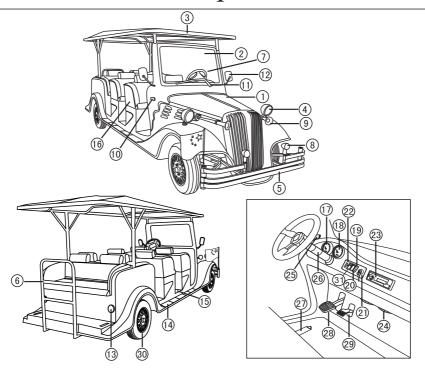
Brake pedal forwarding distance: 85-95mm (3.35-3.74 inch)

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

A WARNING

Do not loosen the brake cables because of air leakage, which will also affect the brake adjustment and result in the braking malfunction.

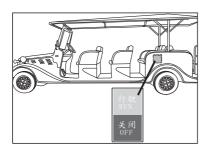
Structure & Specifications



Structure:

- 1 Car body
- 2 Front windshield
- 3 Sunroof
- 4 Front turning light
- 5 Front bumper
- 6 Rear seat handle
- 7 Steering wheel
- 8 Front turning light
- Decoration horn
- 10 Side light
- ① Scrape arm
- 1 Rear mirror
- 13 Rear light
- (14) Hostess plate
- 15 Carpet

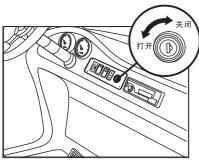
- 16 Seat cushion
- 17 Meter
- [®] Voltage indicator
- (19) Forward/reverse switch
- 20 Front light switch
- 21 Key switch
- 22 Electricity meter
- 23 DVD
- Speaker
- 25 Group switch
- 26 sicula
- 27 hand brake handle
- 28 brake pedal
- 29 accelerator pedal
- 30 tire
- 31 scrape switch



Turning On Main Switch

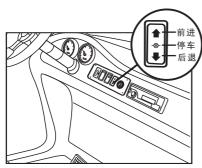
1,Shifting the switch to the RUN position then can turn on the power supply of car.

2,Shifting the switch to OFF position turns off the power supply of car.



Key Switch

- 1. Plugging in the key and turn right the n can turn on the key switch (Note: Shifting the F/R switch to the middle position before turning on Main switch).
- 2. Turning left and then can turn off the switch. Switch can be removed only at this state.

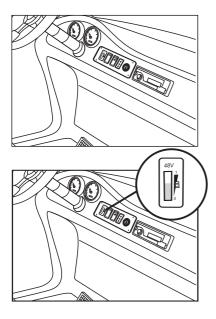


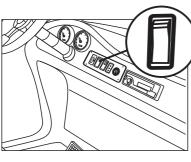
Forward/Reverse Switch

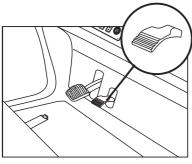
The Forward/Reverse Switch is used to shift the car to forward,reverse or stop. Forward for upward,Reverse for downward,Park for middle. When choosing reverse switch,the reverse buzzer sounds.

₩ARYIXG

Completely stopping car before shifting F/R switch. When shifting F/R switch, please turn switch to middle positon for 2s at first, then choosing Forward switch or Reverse switch. Don't shifting F/R switch in a hurry in case that the sensor will be burnt or switch will be out of use.







Combined Switch

includes:horn,side light,wiper switch; End button is horn switch;shifting forward to turn on right side light;shifting backward to turn on left side light;shifting upward to turn on wiper.

48V Voltage Indicator

Voltage Indicator is to show the charge and. The voltage will shows fully charged when charging is complete.

- 1. Charging indicator display reduces throughout cart operation
- 2. When electricity is close to empty a warning light will show by moving between first space and second space;
- 3. When electricity enters into underelectricity warning, it will display by flashing of first space

Scrape switch

Press on the Scrape switch to enable the scrape work.

Accelerator Pedal

Turning on the key switch, choosing correct gear, then loosening hand brake, putting your foot on accelerator pedal and pressing down slowly. Do not accelerate too fast.

STORAGE

Perform the following preparations when leaving your golf car unused 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. Verify the air pressure of the tire is 51 psi (36psi);
- 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.
- 2. Disconnect cables in case of long storage

CAUTION

Cleaning products are forbidden to put into battery cells

3. Clean the top of the batteries with baking soda and water so as to avoid errosion.

WARRANTY ANDAFTER-SALESERVICE

Please read the following carefully for your interest and good after sales service from us.

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 design problems.

Objects&Content After the car is delivered from our factory

- 1 We do free repair services as per our standard warranty
- 2 Please contact us for universal parts, like tyres, seats, which are out of warranty.
- 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 not under warranty

- 1 Do not do as per instruction book
- 2 Repair car in places which are not approved by us
- 3 Out of warranty
- 4 Use spare part from other manufacturers
- 5 Assemble or modify without our permission
- 6 Overload weight capacity
- 7 Natural disasters like typhoon, flood, earthquake, etc

WARRANTY ANDAFTER-SALESERVICE

Valid Warranty

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

Any damage caused by improper action ,which does not match instruction book, we will not accept as warranty.

ECAR GOLF 7/42 Export Drive Molendinar, 4214 Queensland, Australia

www.ecargolf.com.au

E-MAIL: info@ecaraustralia.com.au