

Police car & Fire fighter car User's Manual

"ECAR GOLF"

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CE certified

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

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



THE SAFETY ALERT SYMBOL INDICATES TO PAY ATTENTION BE ALERT YOUR SAFETY IS INVOLVED

WARNING

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

CAUTION

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

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 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.

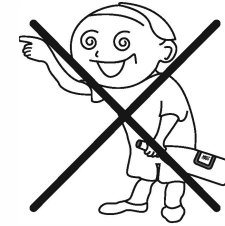
WARNING

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

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 and only in the designated area.
3. Do not **OVERLOAD**.
4. Do not drive the car if you are intoxicated this could restrict the driver's vision and judgment.

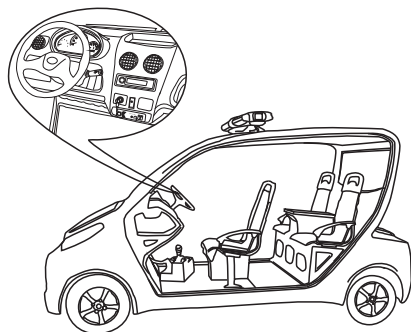


When operating:

- I. 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 in crowded places. Please keep watching your back and roll back slowly.
5. Avoid sudden start and brake
6. Please accelerate or decelerate the car according to the ground condition
7. Do not turn the steering wheel too sharply at high speeds.
8. When on slopes keep driving slowly straight up or straight down not at the same speed on both angles.

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

IMPORTANT LABELS



①

OPERATION INSTRUCTION

Brake pedal



Accelerator pedal

- Read the manual and instructions before driving.
- Make sure passengers are seated.
- Select 'forward' or 'reverse' key.
- Tread the accelerator to move and the park pedal to stop.
- Drive carefully according to terrain, visibility; drive safely in crowded and slippery areas
- When parking, draw up the handle of the hand brake; when starting release the handle.

②



Explosive gasses are release when batteries are charged. Keep flaming materials away.



Sulfuric acid from batteries can burn skin and eyes.



Electrical short can result in burns. Don't connect batteries to wrong terminals

③

WARNING

- No extra passengers is allowed;
- Don't start the car until all passengers are seated well.
- Drive slow when turning;
- Tread the parking pedal before leaving the car.
- Pull 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.

④



WARNING

Windshield does not provide protection against flying objects.

SAFETY AND INSTRUCTION LABELS

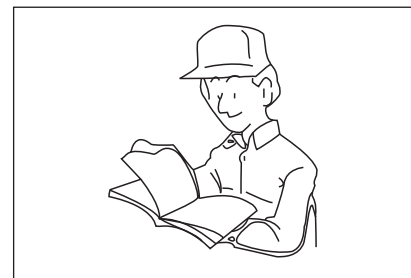
WARNING

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

OPERATION SAFETY

9WVF golf car is designed to be simple to operate. 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.

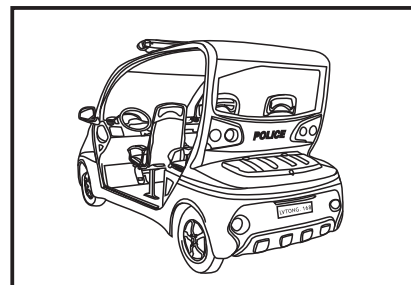
3. Only authorized personnel should drive the car and only in the designated area of the owners.

4. Do not overload. The car can only load a limited number of people.

5. Do not be intoxicated for this can seriously impair the driver's judgment and vision.



6. Do not drive the car on public roads, streets, highways, etc. Such use is illegal and dangerous golf and sightseeing cars are off-road vehicles, and collisions might happen.

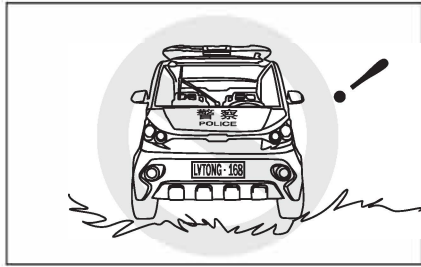


WHEN OPERATING:

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 your back and roll back slowly.

3. Avoid sudden and strong braking of the car and change to the proper speed according to the ground condition.

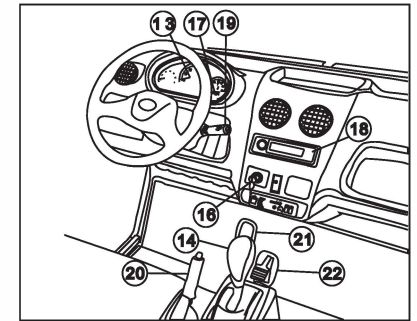
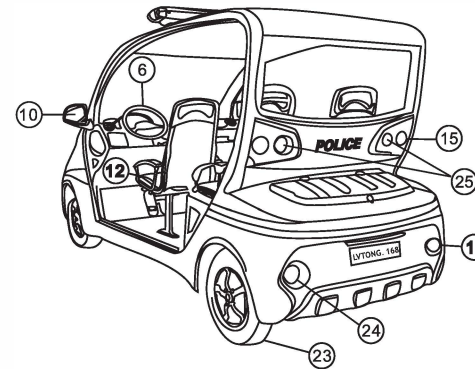
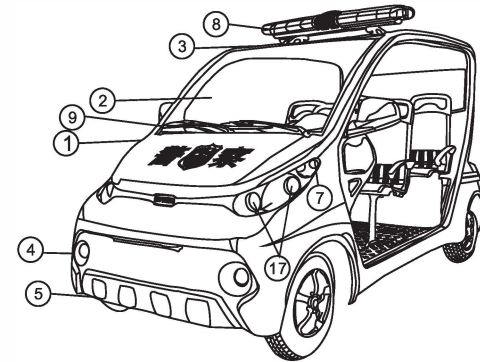
4. Do not turn the steering wheel too sharply when at high speed.

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, and this whole manual.



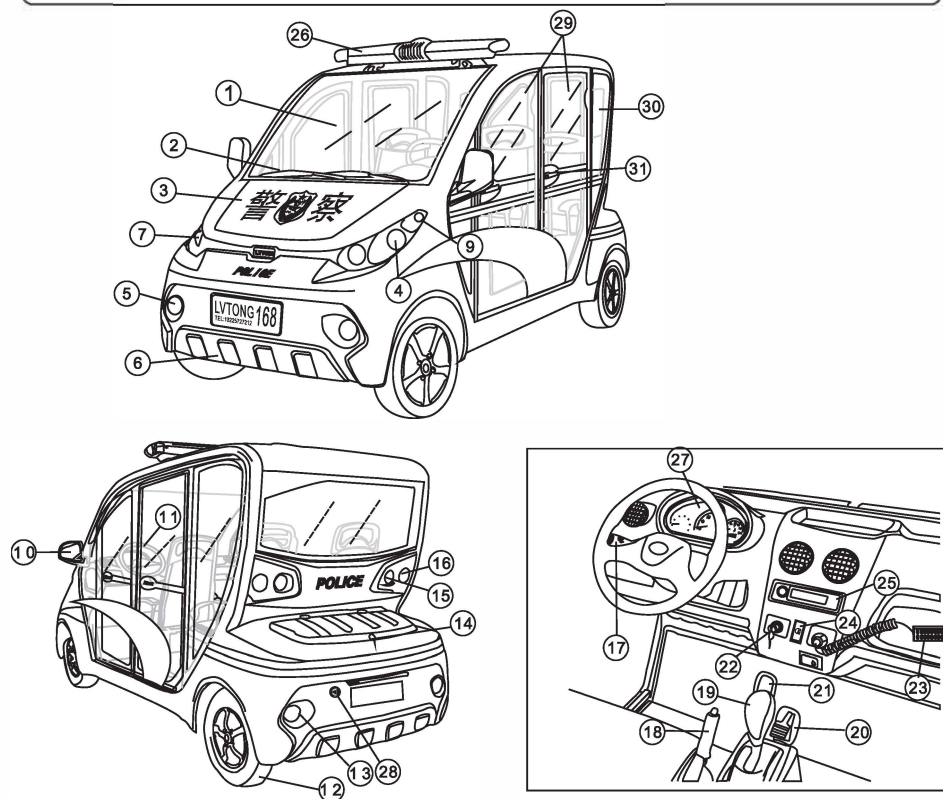
OPEN TYPE SECURITY CAR CONFIGURATION AND SPECIFICATION



Structure:

- ① Car body
- ② Front windshield
- ③ Sunroof
- ④ Front fog light
- ⑤ Front bumper
- ⑥ Steering wheel
- ⑦ Front turning light
- ⑧ Security light
- ⑨ Wiper arm
- ⑩ Side mirror
- ⑪ Reversing light
- ⑫ Seat
- ⑬ Meter
- ⑭ Forward/reverse switch
- ⑮ Rear turning light
- ⑯ Key switch
- ⑰ Front light
- ⑱ Mp3 player
- ⑲ Group switch
- ⑳ Hand brake handle
- ㉑ Brake pedal
- ㉒ Accelerator pedal
- ㉓ Tire
- ㉔ Rear fog light
- ㉕ Brake light, running light

CLOSED TYPE SECURITY CAR CONFIGURATION AND SPECIFICATION



Structure:

- | | |
|-----------------------|-----------------------------|
| ① Front windshield | ⑩ Side mirror |
| ② Wiper arm | ⑪ Steering wheel |
| ③ Car body | ⑫ Tire |
| ④ Weitstrahler | ⑬ Rear fog light |
| ⑤ Front fog light | ⑭ Rear box lock |
| ⑧ Front bumper | ⑮ Brake light/running light |
| ⑦ Low beam | |
| ⑧ Seat | ⑯ Rear turning light |
| ⑨ Front turning light | ⑰ Group switch |
| | ⑱ Hand brake handle |
| | ⑲ Forward/reverse switch |
| | ⑳ Accelerator pedal |
| | ㉑ Brake pedal |
| | ㉒ Key switch |
| | ㉓ Speaker |
| | ㉔ Fog light switch |
| | ㉕ Mp3 player |
| | ㉖ Security light |
| | ㉗ Meter |
| | ㉘ Charger input socket |
| | ㉙ Front window door |
| | ㉚ Rear window door |
| | ㉛ Doornob |

CONFIGURATION AND SPECIFICATION

Whole car specifications (standard) :
detailed specification refers to actual contract

Electronic system	controller	Toyota AC Controller		
	battery	Maintenance Free Gel Batteries 6V x 8pcs		
	Motor	High efficient 4 KW motor		
	charger	Intelligent charger, input 220V, output 48V, 25A		
Body configuration	Electric accelerator	Electrical accelerator 0-5kΩ		
	Front windshield	2+2 laminated glass	Top roof	Fiber glass
	Seat	Leathe	Floor	Aluminum checker plate
	Side mirror	L & R side mirrors	Steering system	Two way gear steering system, automatically backlash compensation
	Light & signal	Front light, turning light, rear light, horn, reverse beeper		
	body	Fiber glass	chassis	High tensile steel welding structure, electrophoresis treatment for anti-rust
	Dash board	Fiber glass dashboard, mileage, voltage indicator, MP3 player, speaker, key switch, group switch, speedometer		
	Brake	Front disc, rear drum + hand brake system		
	Front suspension	Spring + hydraulic shock absorber, independent suspension		
	Rear suspension	Excellent transaxle, gear ratio 12.31:1, half independent suspension + hydraulic shock absorber		
Wheel & tire	Steel wheel 12"x4, 155R12LT			
Loading staff	4 persons (including driver)			

1. specification

- | | |
|-------------------------------|--------------------------|
| 1.1 dimension: L*W*H | 3550*1500*1900mm |
| 1.2 wheelbase | 2545mm |
| 1.3 weight (including batter) | 790kg |
| 1.4 load capacity | 320kg |
| 1.5 max speed | 30km/h |
| 1.6 mileage | 70-90km/h |
| 1.7 min turning radius | 4.7m |
| 1.8 max climbing ability | 15% |
| 1.9 min clearance | 130mm |
| 1.10 brake distance | 3.5m |
| 1.11 tread | front 1200mm/rear 1230mm |

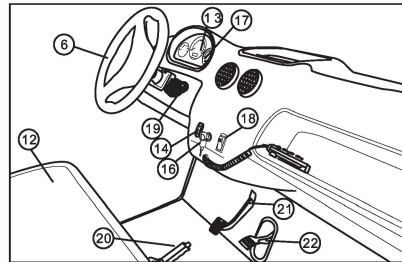
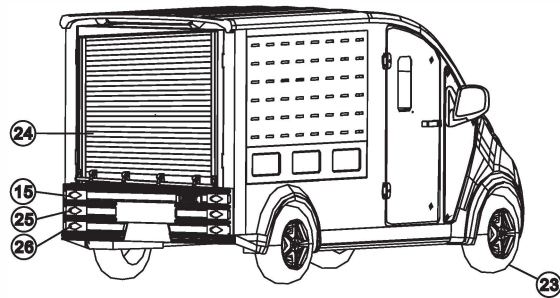
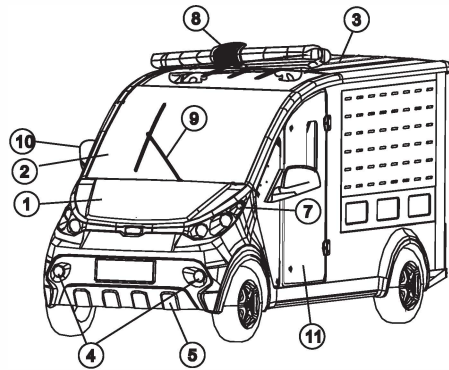
2. battery specification

- | | |
|------------------|-------------------|
| | lead acid battery |
| 2.1 battery type | 270Ah |
| 2.2 volume | 48V |
| 2.3 voltage | |

3. motor specification

- | | |
|--------------------------|-----------|
| 3.1 motor type | DC motor |
| 3.2 rated power | 4kw |
| 3.3 rated rotating speed | 2800r/min |
| 3.4 rated voltage | 48V |
| 3.5 rated currency | 99A |
| 3.6 ration | 连续 |

FIRE FIGHT CAR STRUCTURE AND SPECIFICATIONS



Structure:

- | | |
|-----------------------|----------------------|
| ① Body cover | ⑩ Side mirror |
| ② Front wind shield | ⑪ Door |
| ③ Top roof | ⑫ Seat |
| ④ Front fog light | ⑬ Dash board |
| ⑤ Front bumper | ⑭ F/R switch |
| ⑥ Steering wheel | ⑮ Rear turning light |
| ⑦ Front turning light | ⑯ Key switch |
| ⑧ Security light | ⑰ Head light |
| ⑨ Wiper | ⑱ Fog light switch |
| | ⑲ Combo switc |
| | ⑳ Hand brake |
| | ㉑ Brake peda |
| | ㉒ Accelerator peda |
| | ㉓ Tire |
| | ㉔ Rolling door |
| | ㉕ Working light |
| | ㉖ Brake light |

Fire fight car structure and specifications

Whole car specifications (standard) :
detailed specification refers to actual contract

Electronic system	controller	Toyota AC Controller		
	battery	Maintenance Free Gel Batteries 6V x 8pcs		
	Motor	High efficient 48v/4 KW motor		
	charger	Intelligent charger, input 220V/110V, output 48V, 25A		
	Accelerator	Electrical accelerator 0-5kΩ		
Body configuration	Wind shield	2+2 luminated glas	Top roof	Fiber glass
	Seat	Leathe	Floor	Aluminum checker plate
	Side mirror	L & R side mirrors	Steering system	Two way gear steering system, automatically backlash compensation
	Light&signal	Front light, turning light, rear light, horn, reverse beeper		
	body	Fiber glass	chassis	High tensile steel welding structure, electrophoresis treatment for anti-rust
	Dash board	Fiber glass dashboard, mileage, voltage indicator, key switch, combo switch, speedo meter, F/R switch		
	Brake	Front disc, rear drum + hand brake system		
	Front suspension	pring+hydraulic shock absorber, independent suspension		
	Rear suspension	Excellent transaxle, gear ratio 12.31:1, steel plate shock absorber		
	Wheel & tire	Steel wheel 12"x4, 155R12LT		
Loading staff	2 persons (including driver)			

1. specification

- | | |
|------------------------------|--|
| 1.1 dimension: L*W*H | 4000x1432x2000(including security light) |
| 1.2 wheelbase | 2630mm |
| 1.3 weight(including batter) | 1075kg |
| 1.4 load capacity | 900kg |
| 1.5 max speed | 22km/h |
| 1.6 mileage | 70-90km(flat road) |
| 1.7 min turning radius | 4.1m |
| 1.8 max climbing ability | 10% |
| 1.9 min clearance | 130mm |
| 1.10 brake distance | 4m |
| 1.11 tread | front 1280mm/rear 1310mm |

2. battery specification

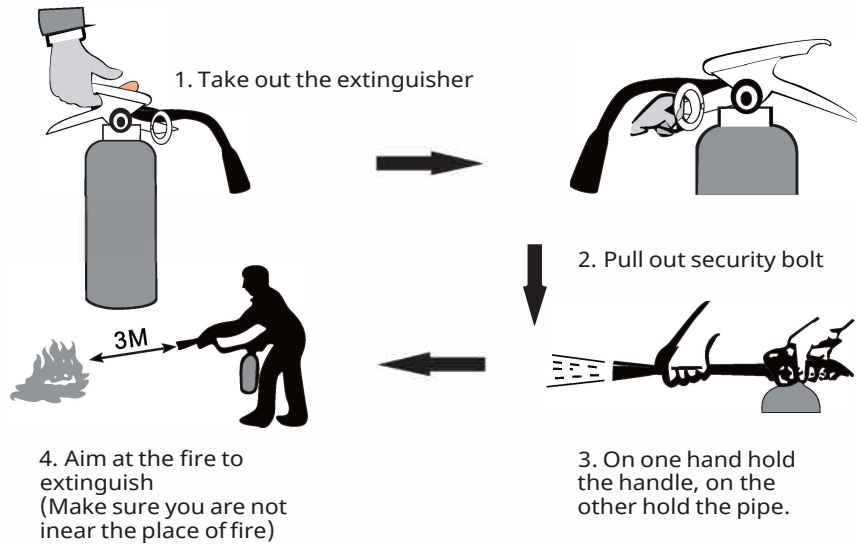
- | | |
|------------------|-------------------|
| | lead acid battery |
| 2.1 battery type | 270Ah |
| 2.2 volume | 48V |
| 2.3 voltage | |

3. motor specification

- | | |
|--------------------------|-----------------|
| | DC series motor |
| 3.1 motor type | 4kw |
| 3.2 rated power | 2800r/min |
| 3.3 rated rotating speed | 48V |
| 3.4 rated voltage | 99A |
| 3.5 rated currency | constant |
| 3.6 ration | |

FIRE FIGHT FACILITIES OPERATION INSTRUCTIONS

Use of extinguisher

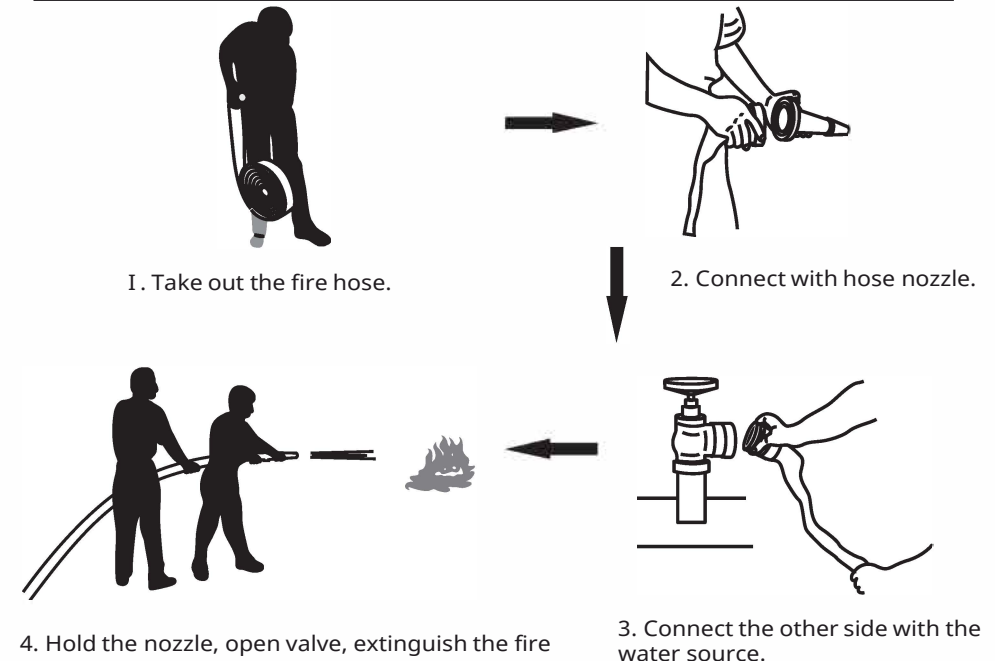


Attention:

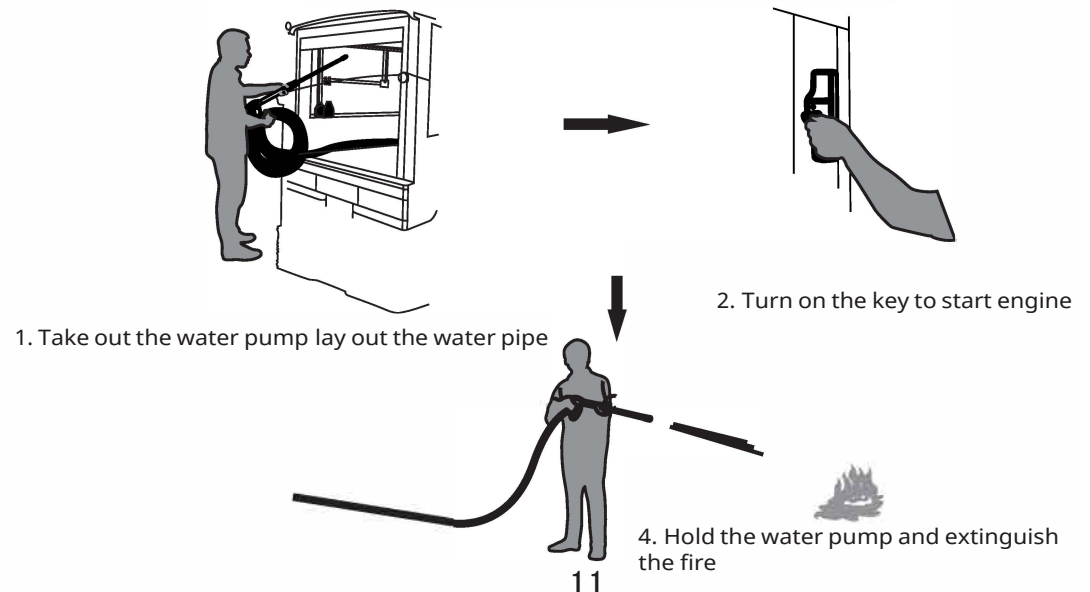
- Dry powder extinguisher is for inflammable solid, inflammable liquid, inflammable gas and electrical facility first stage of fire.
- Co2 extinguisher is for inflammable liquid, inflammable gas fire, also for fire to apparatus, book files, art work and low voltage electronics.

Use of Fire hose

FIRE FIGHT FACILITIES OPERATION INSTRUCTIONS



Use of high pressure water pump

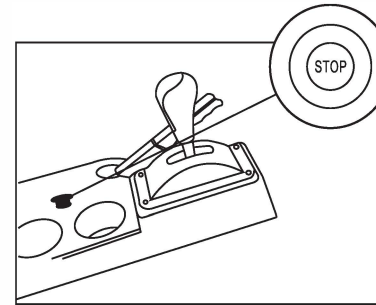


Engine maintenance

1. The oil tank cap on the pump is designed for convenience of transportation, before using the engine, replace the cap with the cap with the meter inside the spare parts bag.
2. Oil type: SAE 15W/40 for Four stroke motorcycle.
3. After first 20 hours use to new machine, engine crank case must be cleaned. Method: take off oil leaking screw to release all the oil, put on the screw and input clean diesel, just a little bit up the middle line of oil mirror, run the pump for 10-15 seconds, shut down the engine, release all the diesel, and input new oil finally.
4. There is a red mark on the oil mirror of the crank case, and new oil should meet the red mark as standard. Before each operation, you should check the oil level and keep it over the red mark a little.
5. After 100 hours, the oil should be replaced with same method, and keep every 100 hours for one replacement, which is important for the lifespan of pump.

OPERATION AND CONTROL

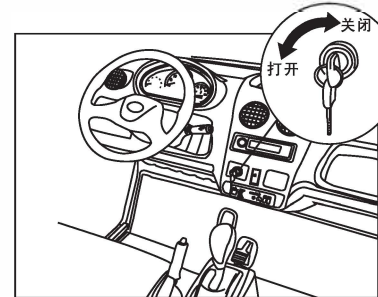
Main power switch "STOP"



1. Press down the "Stop" button to cut off the main power or to stop the whole system
2. Reset the "Stop" button by twisting it until main power starts working.
3. The main power switch "STOP" is only for the police car. There's no such switch in fire fighting car currently.

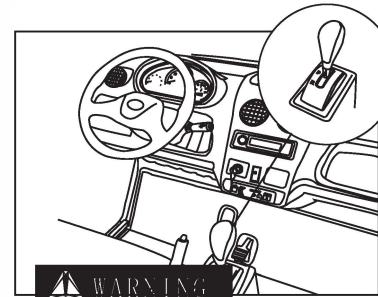
Attention: "Stop" button can be used in emerganny to cut off the power and stop the car immediately.

Key Switch



1. Plug 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. Turn left and to turn off the switch. Key can be removed only at this state.

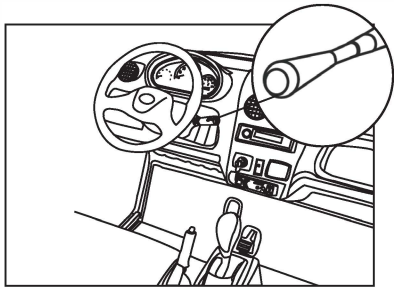
Forward/Reverse Switch



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

Completely stop the car before shifting F/R switch. When shifting F/R switch, please turn switch to middle position for 2 seconds at first, then choose Forward switch or Reverse switch. Don't shift F/R switch in a hurry otherwise the sensor will be burnt or the switch will malfunction.

OPERATION AND CONTROL



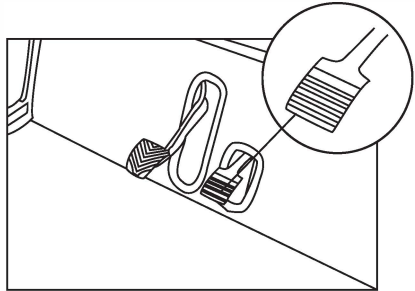
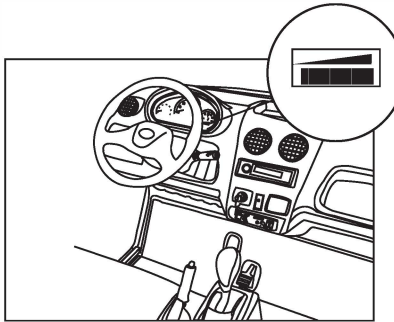
Combined Switch

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

48V Voltage Indicator

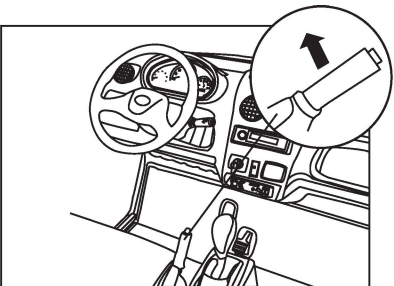
The voltage Indicator shows the power and remaining charge time. The indicator will show full charged when charging complete.

1. Power display is reduced with the consumption of electricity during operation.
2. When electricity is low, an electricity warning is shown by moving between first space and second space.
3. When charge runs out, a warning is displayed by flashing of first space on the left.



Accelerator Pedal

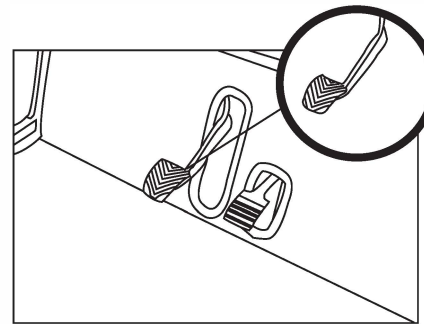
Turn on the key switch, choose the right gear, then release hand brake, put your foot on accelerator pedal and press down slowly. Do not accelerate immediately.



Hand Brake

After fully stopping the car, pulling up hand brake on gear 5-7 to release parking function.

OPERATION AND CONTROL



Brake Pedal

Press the Brake Pedal to reduce speed and to stop the car.

Warning: Avoid braking suddenly.

PRE OPERATION

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

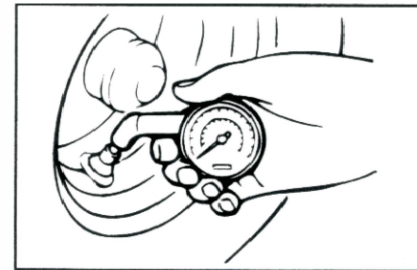
PRE OPERATION

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 battery acid is spilling from the battery. Check the battery terminals for corrosion.

TIRE CONDITION

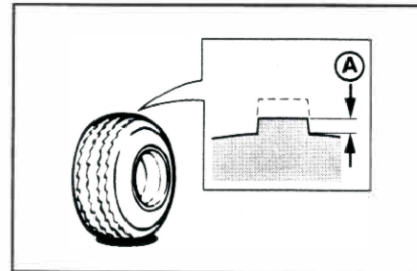
Check the tire air pressure before the operation of car.



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), replace the tire.



 Wear limit

PRE OPERATION

STEERING SYSTEM

Check the steering system for excessive free play.

- Move the steering wheel up and down; back and forth.
- Turn the steering wheel slightly to the right and the left.

If you feel excessive free play or hear rattling sounds, which may indicate loose steering components, consult an ecar dealer.

BACK UP BUZZER

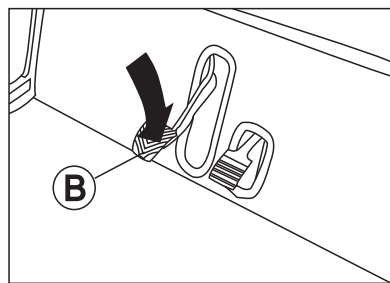
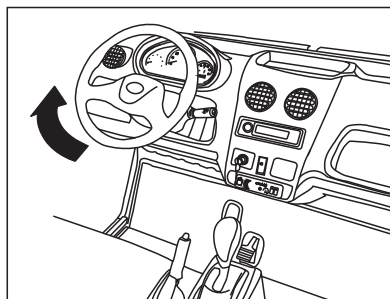
Check the backup buzzer by moving the drive select switch to "REV" for reverse. The sound of "please note" will be heard.

PEDAL OPERATION

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

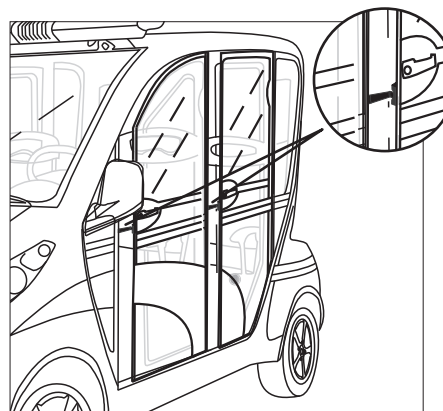
BRAKE PEDAL

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



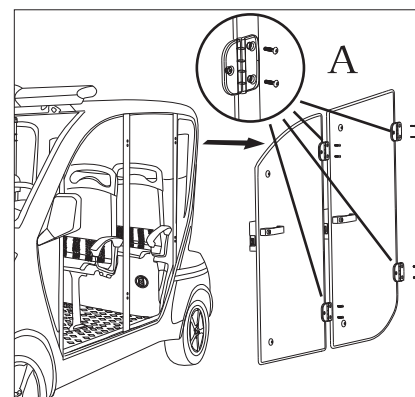
(B) Brake pedal

DISASSEMBLING GUIDANCE TO CLOSING DOOR



Door Limit Part

Open the door and pull the part from the side of the column, and turn it anticlockwise.

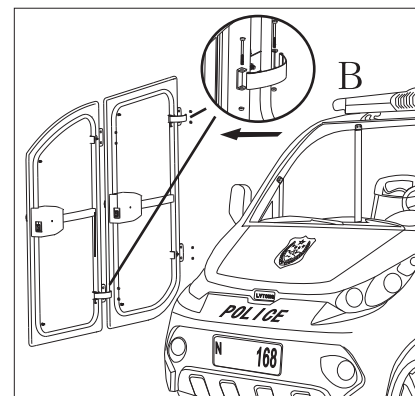


Door Disassembling

1. Use a screwdriver to remove the screws on the door. (See photo A)

CAUTION

Be careful not to scratch when disassembling.

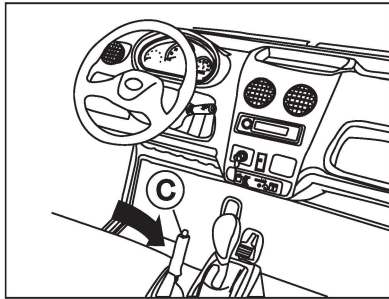


2. See photo B. Loosen the screws in the belt, then disassemble. Make sure the lock is open while disassembling.

PRE OPERATION

HAND BRAKE

Make sure the hand brake is working properly.



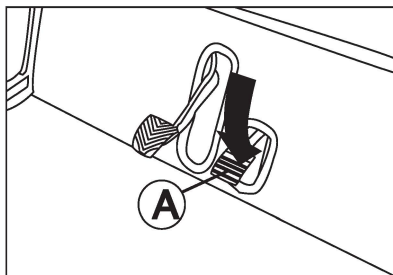
Ⓒ hand brake

NOTE

Release the hand brake before stepping on the accelerator pedal.

⚠ WARNING

Before checking operation of the accelerator pedal, make sure that the main switch is off,



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.

MAINTENANCE

Battery Care

⚠ WARNING

Battery electrolyte is poisonous and dangerous, causing severe burns, etc. It contains sulfuric acid. Avoid contact 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

PERIODIC MAINTENANCE CHARTS

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

⚠ 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 servicing, this work should be done by a Ecar dealer or other qualified mechanic.

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 per hour is recommended)

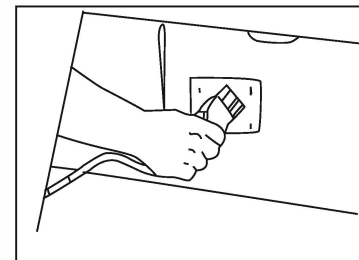
Follow the instructions contained in your battery charger's owner's manual to charge the batteries in your car.

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.



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 Years)	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 Years)	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
	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
Every month	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					*
Every 6 month	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	*
Every year	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	*
Every 4 month	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 only.
This manual doesn't contain the procedures. They are contained in the Service Manual

MAINTENANCE

⚠ WARNING

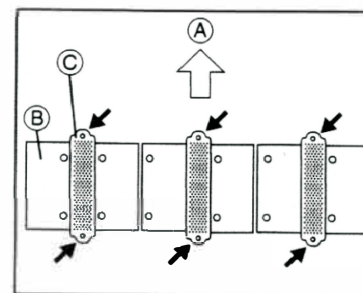
Do not disconnect the DC output cord from the battery receptacle when the charger is on because this may cause an explosion.

- The charger will turn off automatically when the batteries reach full charge.
- 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 explosion.



- Install the battery and hold down plates as shown
 - Ⓐ Forward
 - Ⓑ Battery
 - Ⓒ battery fitting plates

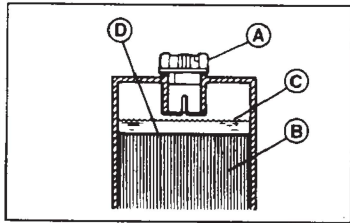
MAINTENANCE

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.



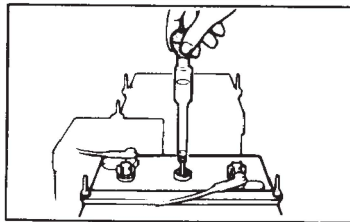
A Battery cap
B Plates

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 a Lvtong dealer if any low readings are found.

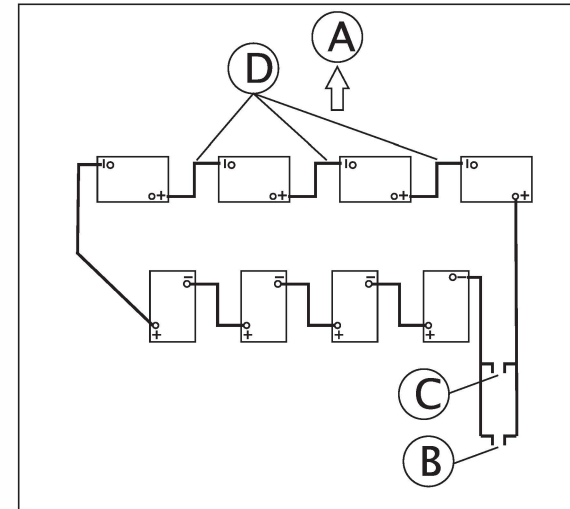
Temperature		Satisfactory Hydrometer Reading
° F	° C	
120	48.9	1.244
110	43.3	1.248
100	37.8	1.252
90	32.2	1.256
80	26.7	1.260
70	21.1	1.264
60	15.6	1.268
50	10	1.272
40	4.4	1.276
30	-1.1	1.280



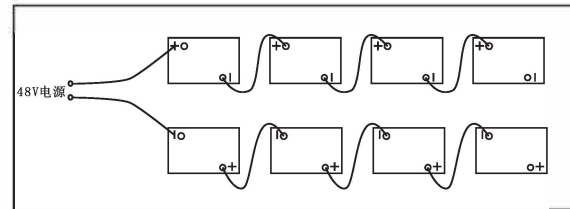
MAINTENANCE

2. Connect the cables as per image

S4. PA police car



S2. XF fire fighter

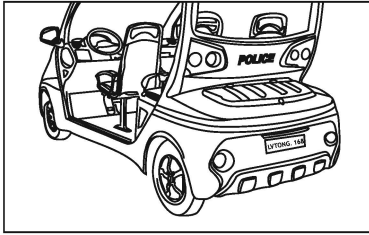


WARNING

When installing the battery:

Carefully lay out the cable and make sure it does not exceed the two poles; when disassembling, first remove the (-) minus pole, when installing, install the (-) minus pole last. Don't put the screws too tight, or it will break the battery body.

MAINTENANCE



Check the oil level in the gearbox

Gearbox oil

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

recommended oil :
SAE 90 gearoil

Gearcase capacity :
0.3L

5. It's fine for oil to over flow.
Make it stop when it does.

Foreign materials are not allowed to get inside the gearbox.

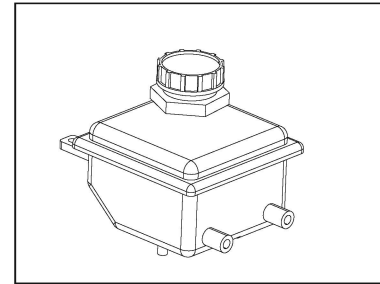
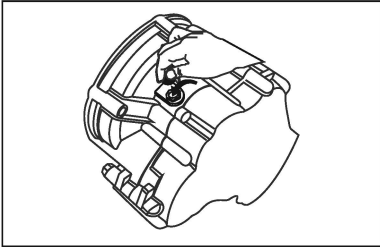
Brake oil tank

Police car oil tank is at the left side of dash board.

To assure the best performance of brake system, refill oil if it's less than ½ level.

NOTE: _____

For Gear oil and brake oil replacement, please contact a professional technician.



MAINTENANCE

CAUTION

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

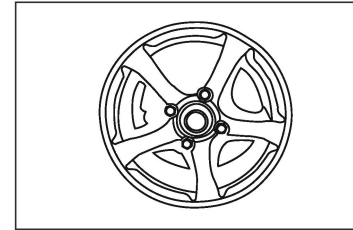
Tire Replacement

About removing or installing a tire:

1. Take out the wheel nuts, once the car is totally still. Anything will be fine to prevent it from moving.
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

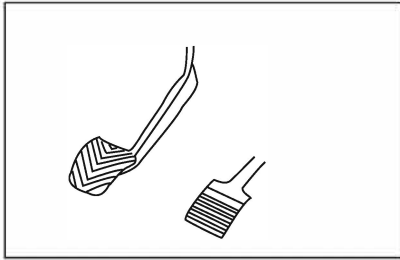
The brake of this car can be adjusted by you.

Please use your foot to step on the braking pedal, making sure it is functioning properly.

Consult your ECAR dealer before using the car, if you have any problems with the brakes. Serious accidents can happen from brake failure.

MAINTENANCE

Brake system: free adjustment

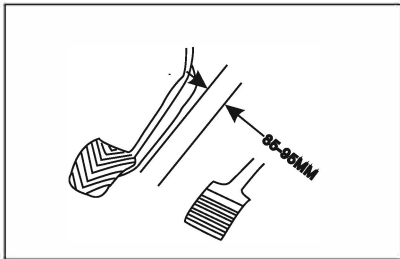


CAUTION

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

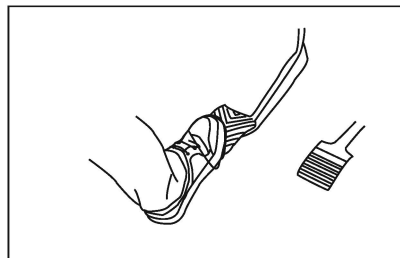


Brake pedal forwarding distance :
85-95mm (3.35-3.74 inch)

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

⚠ WARNING

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



ST O R A G E

Perform the following preparations when leaving your golf car unused for a long time:

NOTE:

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

CHASSIS PREPARATION

1. Verify the air pressure of the tire is 51 psi (3 kgf/cm³).
2. Clean the outside of the car with anti-rust 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 erosion.

WARRANTY AND AFTER-SALES SERVICE

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

What is under our warranty and after-sale service?

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

We promise to change or repair any material quality or designing problem.

Objects & Content

After a car is delivered from our factory

1. We will perform free repair service as our standard warranty
2. Please contact us for universal parts, like tire, cushion, which are out of Warranty.
3. We will send technicians if there is a severe quality problem.
4. We will provide long-term after sales service when warranty date is valid

The below conditions will void the warranty

1. Buyer does not do as instruction book.
2. We will not repair car in places which are under our sales jurisdiction.
3. Out of warranty
4. Buyer used spare part from other manufacturers
5. Car is assembled or modified without our permission
6. Over Max Capability when used.
7. Damage caused by some natural disasters like typhoon, flood, earthquake, etc.

WARRANTY AND AFTER-SALES SERVICE

Valid Warranty

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

Kind Statement

Any damage caused by improper action, which is not covered in this manual will invalidate the warranty.

Hand programmer defective code to Curtis 1205, 1204

No.	indication
1	Thermal Cutback
2	Under Voltage
3	Throttle Fault
4	Over Voltage
5	UnderVoltage Cutoff
6	Ee Fault
7	Motor Short Fault
8	Main Contactor Dnc
9	Mosfet Short Fault
10	Over Temperature
11	Hpd Lock