



A827 MANUAL

CE Certified

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

Read and understand the manual before operating the car

PREFACE

Dear Users,

Thanks for purchasing a Lion Golf Car. While adopting advanced technology from Europe and the US and main imported components, the cars are also feature innovative luxury design, professional painting and high strength steel welding ... all of which ensure our cars look great, are reliable and excel in performance.

Lion Golf Cars are lightweight, have strong climbing ability, are pollution free, are quiet, are easy to charge and offer good braking performance. Adding reasonable pricing to the list of features, our cars are the most advanced in the electric car field at present.

We have produced this operation manual in order to help users operate and maintain the car correctly, getting the best performance possible and prolong its working life. Please read it carefully.

The manual is standard, however the car is continually improving. If the manual doesn't match with your current car, please contact the dealer.

IMPORTANT MANUAL INFORMATION

Particularly important information is distinguished by using the following symbols and notes: The following alert symbols mean **ATTENTION!** Be alert as your safety may be compromised!



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.



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



This message provides additional important information.



Lion 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 Lion 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.



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

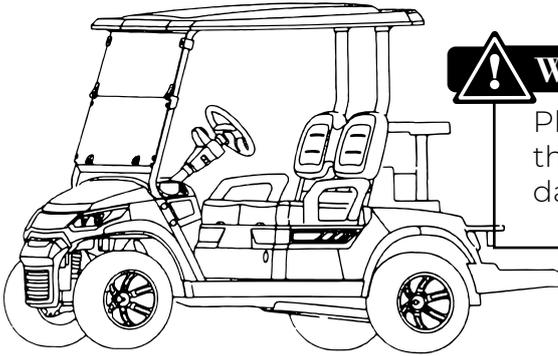
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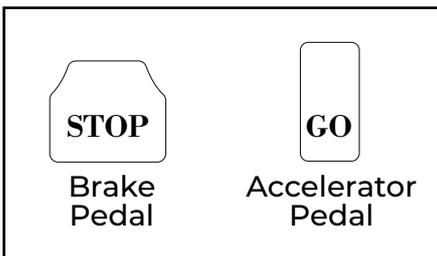
IMPORTANT LABELS

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 ESSENTIALS

- Read the manual and safety instruction labels on the golf car before driving.
- Be sure that passengers are seated stably and are holding the armrest.
- Do not start the car until all passengers are seated.
- Keep hands and feet inside the car.
- Select “forward” or “reverse” key.
- Press right foot on the accelerator to start moving; and press right foot the brake pedal to stop
- Please drive safely according to the terrain, visibility, surrounds and in crowded and slippery places.
- Drive slowly when turning.
- When parking, please press the brake pedal with your right foot and draw up the handle of hand brake. When starting the car, release the handle.
- Pull the main switch and turn the key off when not using the car.

WARNING

EXPLOSIVE GASES

are released when batteries are charged or discharged. Keep well ventilated.

Keep sparks and cigarettes away.

Shield eyes when near batteries

SULFURIC ACID

in batteries will burn skin, eyes, and clothing. Do not tip batteries.

Keep vent caps tight and level.

In event of injury, flush with water and see immediate medical attention.

ELECTRICAL SHORTS

can result in burns.

Do not make connection between positive and negative battery terminals.

WARNING

Windshields do not provide protection from other flying objects.

SAFETY OPERATION

BEFORE OPERATING:

1. Read this manual and all the other operations or labels marked on the car body before operating
2. Only 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 having any 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 in crowded places. Please keep watching 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 speed
8. Keep driving slowly straight up or straight down, not at one same angle when on slopes



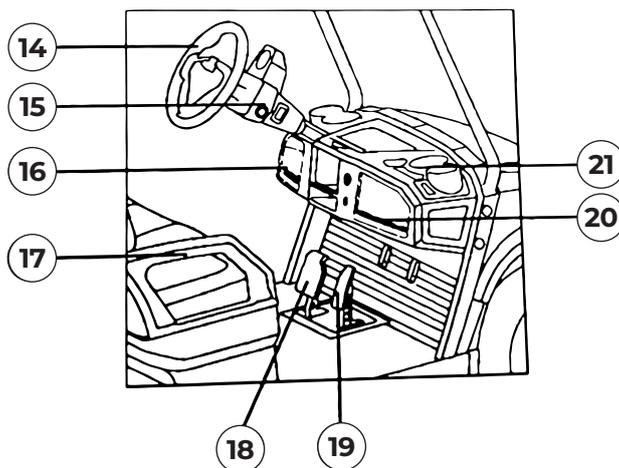
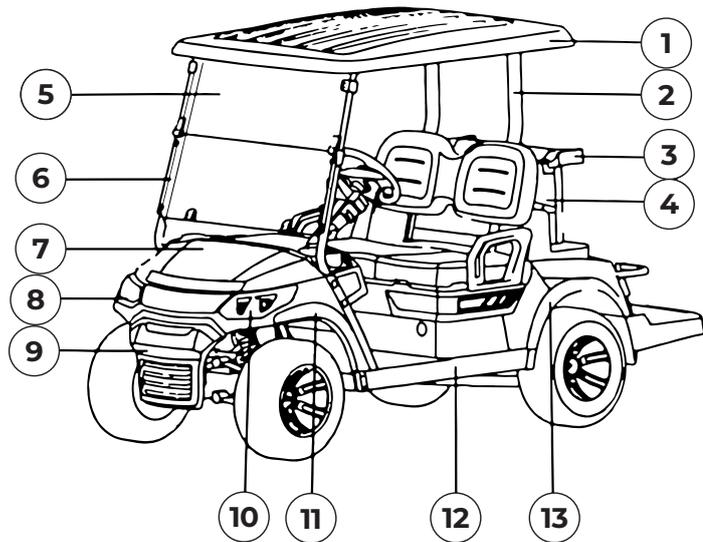
CAUTION

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

STRUCTURE & SPECIFICATIONS

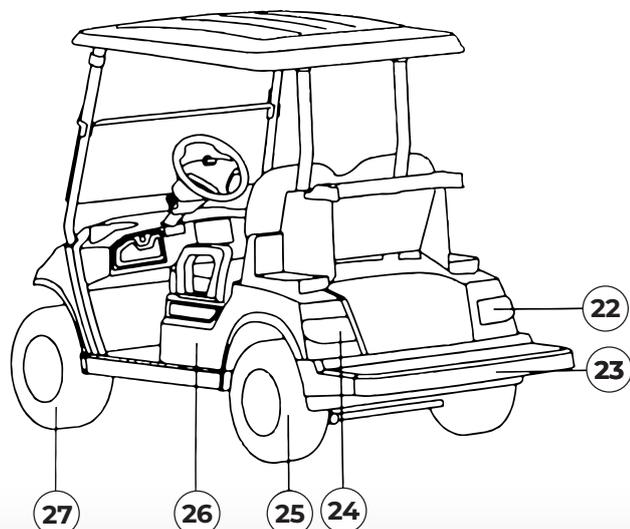
A827.2 VEHICLE STRUCTURE:

- ① Top roof
- ② Top roof rear support
- ③ Golf bag support
- ④ Golf bag box
- ⑤ Front windshield
- ⑥ Windshield frame
- ⑦ Front cover
- ⑧ Front headlight /R
- ⑨ Front bumper
- ⑩ Front headlight /L
- ⑪ Front wheel trims
- ⑫ Side sill
- ⑬ Rear wheel trims



- ⑭ Steering wheel
- ⑮ Combination switch
- ⑯ Ball cabinet glue / L
- ⑰ Armrest
- ⑱ Brake pedal
- ⑲ Accelerator pedal
- ⑳ Ball cabinet glue / R

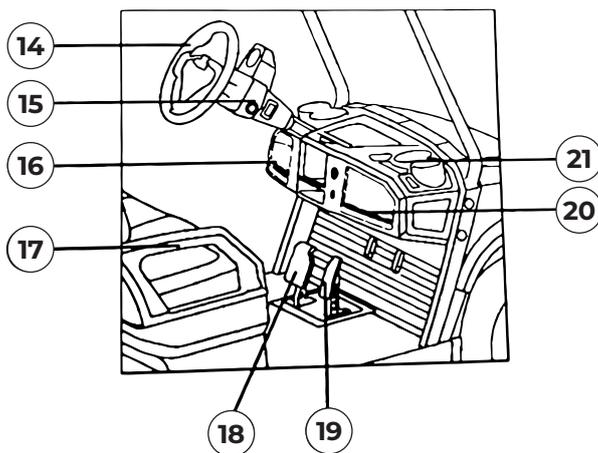
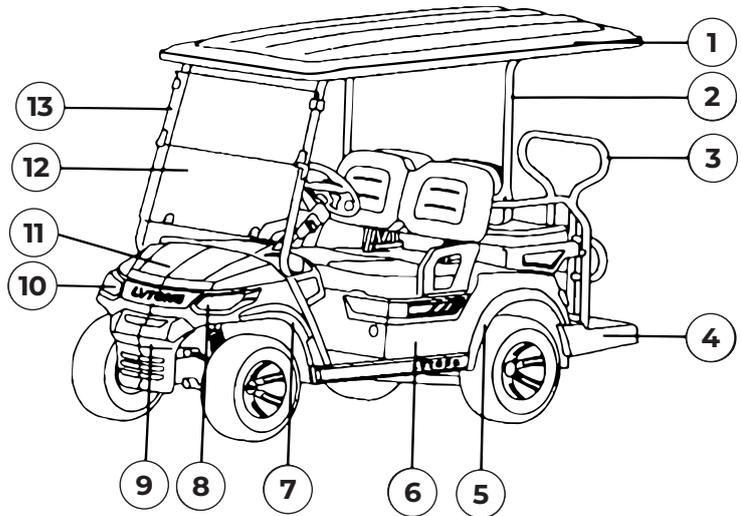
- ⑳ Cup base
- ㉑ Tail light / R
- ㉒ Caddie pedal
- ㉓ Tail light / L
- ㉔ Rear wheel
- ㉕ Rear cover
- ㉖ Front wheel



STRUCTURE & SPECIFICATIONS

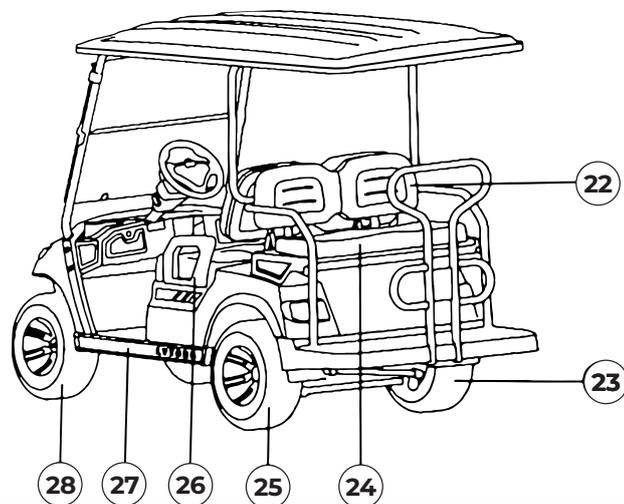
A827.2+2 VEHICLE STRUCTURE:

- ① Top roof
- ② Top roof rear support
- ③ Rear support armrest
- ④ Caddie plate
- ⑤ Rear wheel trims
- ⑥ Rear cover
- ⑦ Front wheel trims
- ⑧ Front headlight /L
- ⑨ Front bumper
- ⑩ Front headlight /L
- ⑪ Front cover
- ⑫ Windshield
- ⑬ Windshield frame



- ⑭ Steering wheel
- ⑮ Combination switch
- ⑯ Ball cabinet glue / L
- ⑰ Armrest
- ⑱ Brake pedal
- ⑲ Accelerator pedal
- ⑳ Ball cabinet glue / R

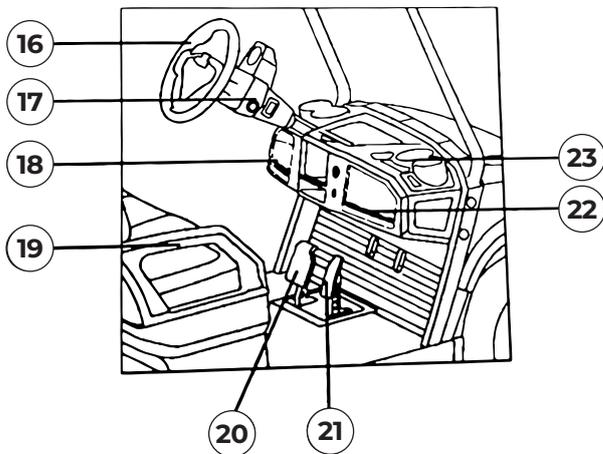
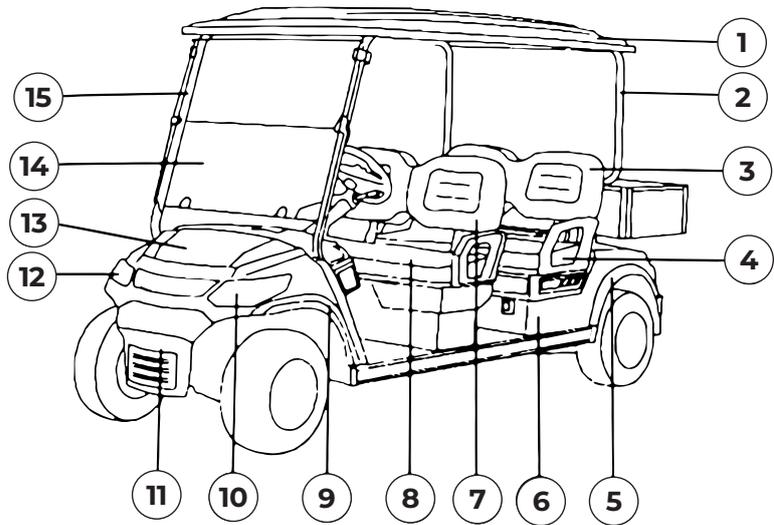
- ⑳ Cup base
- ㉑ Rear seat backrest
- ㉒ Rear wheel / R
- ㉓ Rear seat cushion
- ㉔ Rear wheel / L
- ㉕ Armrest for driver's seat
- ㉖ Side sill
- ㉗ Front wheel / L



STRUCTURE & SPECIFICATIONS

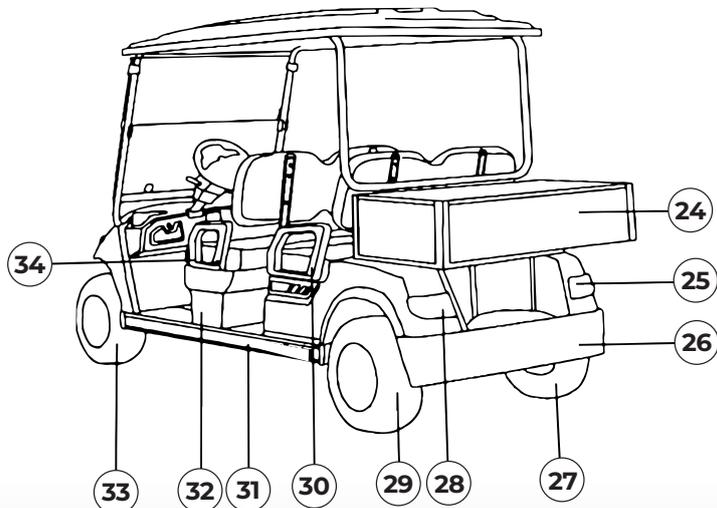
A827.4 VEHICLE STRUCTURE:

- ① Top roof
- ② Top roof rear support
- ③ Second row backrest
- ④ Second row seat cushion
- ⑤ Rear wheel trims
- ⑥ Rear cover
- ⑦ Front backrest
- ⑧ Front seat cushion
- ⑨ Front wheel trims
- ⑩ Front headlight / L
- ⑪ Front bumper
- ⑫ Front headlight / R
- ⑬ Front cover
- ⑭ Windshield
- ⑮ Windshield frame



- ⑯ Steering wheel
- ⑰ Combination switch
- ⑱ Ball cabinet glue / L
- ⑲ Armrest / R
- ⑳ Brake pedal
- ㉑ Accelerator pedal
- ㉒ Ball cabinet glue / R
- ㉓ Cup base

- ⑳ Cargo box
- ㉑ Tail light/R
- ㉒ Rear bumper
- ㉓ Rear wheel / R
- ㉔ Tail light / L
- ㉕ Rear wheel / L
- ㉖ Armrest / L
- ㉗ Side sill
- ㉘ Front seat box
- ㉙ Front wheel/L
- ㉚ Armrest

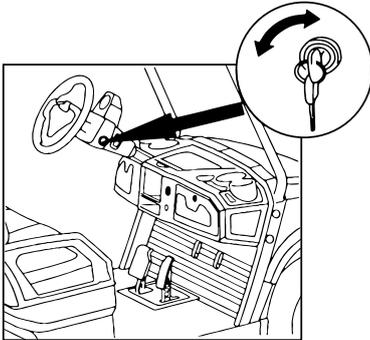


OPERATION & CONTROL



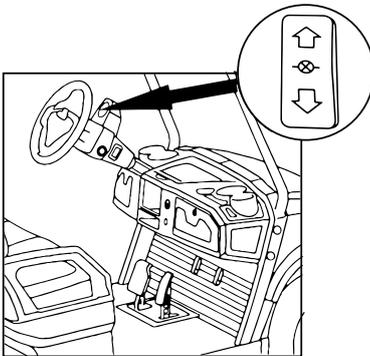
TURNING ON MAIN SWITCH

1. Shifting the switch to RUN position then can turn on the power supply of car.
2. Shifting the switch to OFF position 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 key switch).
2. Turning left and then can turn off the switch. Switch can be removed only at this state.



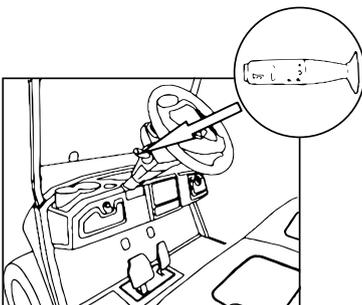
FORWARD/REVERSE SWITCH

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.

WARNING

Completely stop the car before shifting F/R switch.

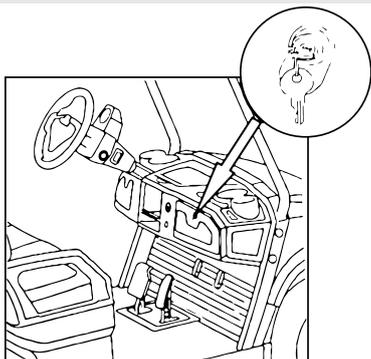
When shifting F/R switch, please turn switch to middle position for 2s at first, then choosing Forward switch or Reverse switch. Don't shifting F/R switch in a hurry in case that the sensor will be burnt or switch will be out of use.



COMBINATION SWITCH:

1. Turn signal: Move the turn signal lever forward, left turn signal flashes. At the same time, you'll be able to see a flashing arrow directed to the left on your instrument cluster. Move the turn signal lever backward, the arrow directed to the right on.
2. Low beam: Front part of the lever can be pushed and pulled. After the vehicle is started, push the lever forward to turn on low beam and backward to turn off.
3. High beam: move the lever upwards (steering wheel surface) to turn on high beam. Releasing the lever, it will automatically return to original position, and then high beam are turned off. Turn on the low beam first, and then move the lever upwards, it will not automatically return to original position, and the high beam can be permanently on.
4. Horn: Press lightly on the end of lever, where horn button is located.

OPERATION & CONTROL

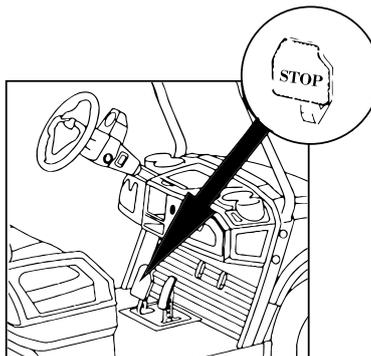


GLOVE BOX LOCK:

There are one glove box on each side of instrument panel, which can be used to store goods. When the glove box cover is not locked, press the lock head to open the cover.

Unlock: Insert the key into the lock, rotate in the clockwise direction to unlock, and then remove the key.

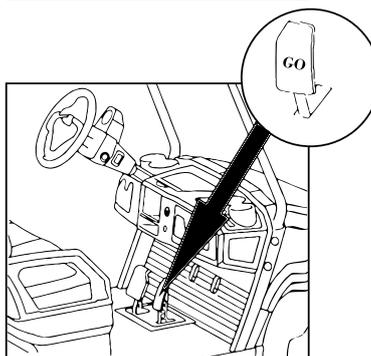
Locking: Close the box cover, insert the key and rotate in the counterclockwise direction to lock, and then remove the key.



BRAKE PEDAL:

If reducing speed while car is running, put your right foot on brake pedal and step on it, then can reduce speed till car stops.

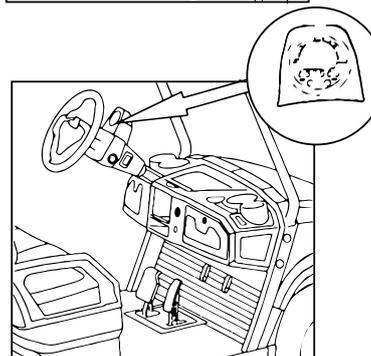
Attention: Avoid quick brake!



ACCELERATOR PEDAL:

Turn on the key switch, choose forward or backward, release brake, put your right foot on the accelerator pedal, soft step down the pedal to start the car.

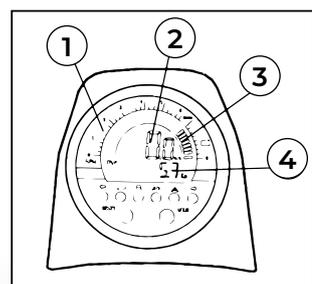
Attention: Don't step down the pedal to the end in rush.



INSTRUMENT CLUSTER:

Display the current vehicle status, rotate speed, per hour, battery power, mileage, light signal etc.

During the driving, you can check whether it is normal according to the status of the indicator light in the instrument cluster.



INSTRUMENT CLUSTER LIGHTING DIAGRAM:

- ① Rotating speed
- ② Speed per hour
- ③ Battery Power
- ④ Mileage

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

Opening the seat for checking and servicing.

BODY AND CHASSIS:

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

BATTERY

Charge batteries before every 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 from spilling from the battery. Check the battery terminals for corrosion.

TIRE CONDITION

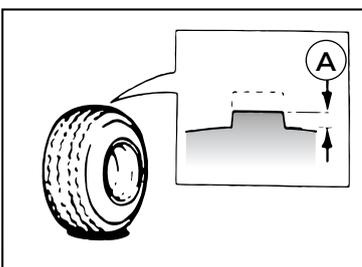
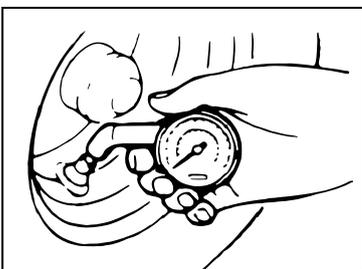
Check the tire air pressure before the operation of car.

Tire pressure : 40PSI

Tire wear limit

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

(A) Wear limit



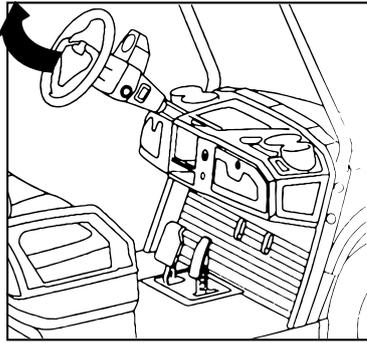
PRE OPERATION

STEERING SYSTEM

Check the steering system whether there is too much empty steering

- A. Put the steering wheel up and down, front and back
- B. Turning the steering wheel left or right

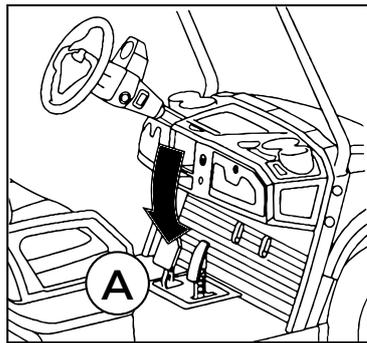
If you find too much empty steering or hear noise, it means some parts wrong and please contact dealer immediately.



REVERSE ALARM

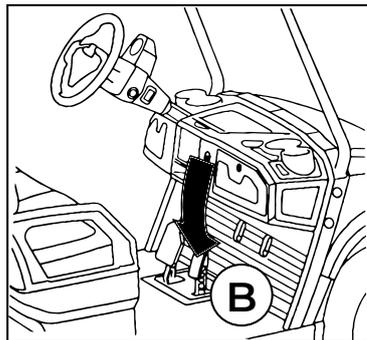
Turn the F/R switch to "R" for checking reverse alarm

Pedal operation: Check the pedals operation, if it's abnormal, contact dealer immediately.



BRAKE PEDAL (A)

When step down the pedal, you feels well, release it to be original position.



ACCELERATOR PEDAL (B)

Check the flexibility and reliability of pedal, it returns to original position after step down.

WARNING

Before checking the accelerator pedal, make sure to turn off the main switch

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: Flush with water

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

Seek medical attention 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

BATTERY CHARGING

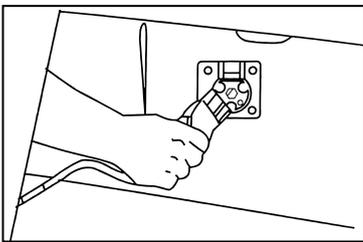
WARNING

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.

1. Do not attempt to recharge your car's batteries without thoroughly reading and understanding the manual.
2. 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.

WARNING

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

MAINTENANCE

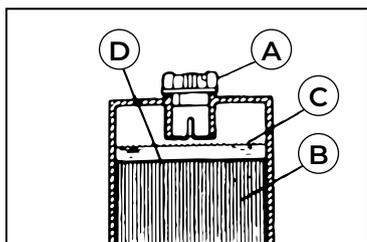
BATTERY CHARGING

Before charging:

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

After charging:

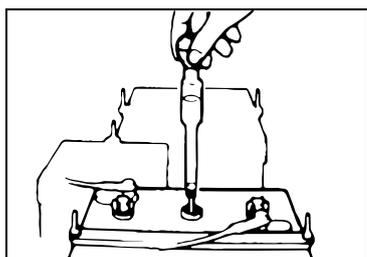
Check that the fluid level is appropriately 1/4 to 1/2 inch above the plates and 1/4 to 3/8 inch below the level is low. Add distilled water carefully. Adding distilled water after charging helps prevent boiling over



- (A) Battery cap
- (B) Plates
- (C) Maximum fluid level
- (D) Minimum fluid level

WARNING

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



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

TEMPERATURE		SATISFACTORY LIQUID DENSIMETER
°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

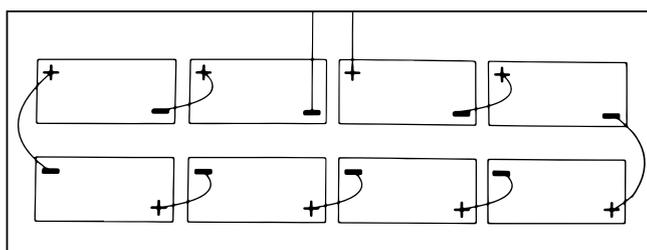
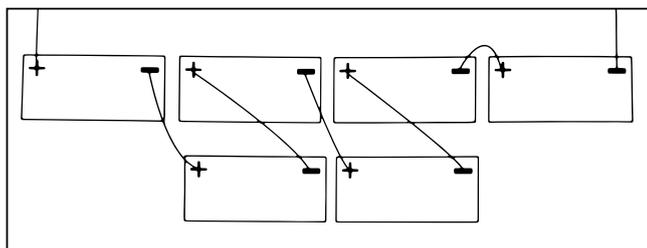
NOTE

Only lead-acid batteries need to add battery water, maintenance-free batteries do not need.

MAINTENANCE

BATTERY INSTALLATION

Link the cables as per the sketch



WARNING

When installing the batteries:

Please carefully place the cables and make them down, making sure the cables not crossover the vent caps

Always remove the negative(-) cable from the motor controller first and install it at last.

Do not over-tighten the battery nuts, because too much force would damage the battery case.

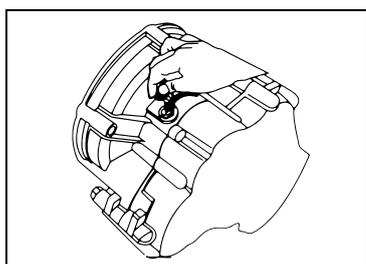
GEARBOX OIL

Check the oil level in the gearbox.

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

Recommended Oil:
SAE 90 gear oil

Gear case capacity: 0.3L



NOTE

For oil changing please consult your Lion dealer or other qualified mechanic.

5. Stop when it overflows (don't worry if it overflows a bit before you can stop it) and ensure no foreign bodies get into the gearbox.

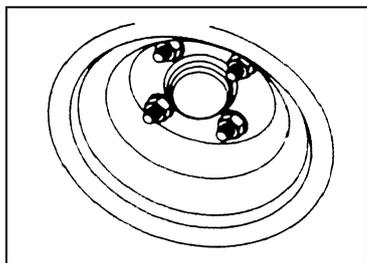
MAINTENANCE

TIRE REPLACEMENT



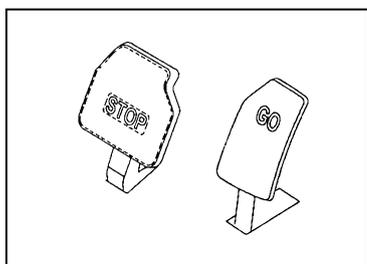
CAUTION

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



1. Take out the wheel nuts, after the car is totally still. Anything will be fine to prevent it 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:
105N·M - 120N·M**



BRAKE ADJUSTMENT

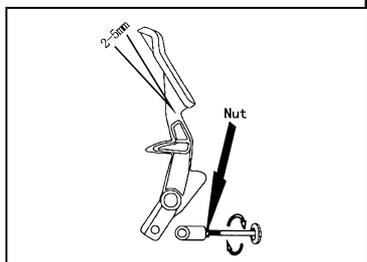
The brake of this car can be adjusted by yourself.

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



WARNING

Consult your Lion dealer before using the car, if you have anything problem with the brake. Because serious accident would be caused in case of brake failure.

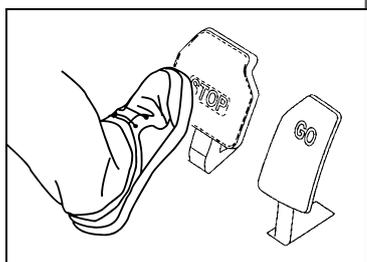


BRAKE SYSTEM: FREE ADJUSTMENT



CAUTION

Before adjusting the brake, press down on the brake pedal several times to adjust the brakes.



BRAKE PEDAL TRAVEL ADJUSTMENT

1. To change the length of the push rod and thus increase the brake pedal free travel, firstly loosen the lock nut on the brake master cylinder push rod, then carefully turn the push rod in the counterclockwise direction.
After adjusting the brake pedal travel properly, tighten the screw in time to prevent it from loosening.
2. The brake pedal free travel can be adjusted, but not frequently. It is recommended to adjust the distance between 2-5mm and increase the length of the push rod by 1-2mm.

WARNING

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

MAINTENANCE

PERIODIC MAINTENANCE CHART

It may be necessary to check the below maintenance chart periodically for the best performance and safe operation of your car.



WARNING

Do not fix brake cable too tight as this will make the brake adjust can't work perfectly and therefore lower down the brake performance.

C=CHECK
CA=CHECK ADJUST
R=REPLACE
S=SERVICE
CL=CLEAN & LUBRICATE
L=LUBRICATE



WARNING

Before maintenance, make sure that main switch is off and hand brake on. Your local dealer or qualified technician are responsible for it.

REMARKS	PRE-OPERATION	20 ROUNDS	125 ROUNDS	250 ROUNDS	500 ROUNDS	1000 ROUNDS	PAGE	
		20 HOURS 160KMS (EVERY MONTH)	125 HOURS 1000KMS (EVERY 6 MONTHS)	250 HOURS 1000KMS (EVERY YEAR)	500 HOURS 4000KMS (EVERY 2 YEARS)	1000 HOURS 8000KMS (EVERY 4 YEARS)		
CHARGE	S	S	S	S	S	S	8-5	
PRE-OPERATION	Clean battery tops, for tightness of hold-down screws & terminals	S	S	S	S	S	8-3/6-2	
	Check brake pedal freeplay & adjust if necessary	C	CA	CA	CA	CA	8-9/8-10	
	Check steering operation	C	C	C	C	C	6-3	
	Check tire pressure, tread depth & tire surface for damage	C	CA	CA	CA	CA	6-2	
	Check body & chassis for damage	C	C	C	C	C	6-4	
	Check tightness of bolts, nuts & screws	C	C	C	C	C	*	
	Check reverse buzzer	C	C	C	C	C	6-3	
EVERY MONTH	Check electrolyte level		C	C	C	C	8-3/8-4	
	Check for loose or broken connections		C	C	C	C	*	
	Clean & lube pedal control area		CL				*	
EVERY 6 MONTHS	Check all wire insulation for crack &/or worn spots			C	C	C	*	
	Check shock absorbers for oil leaks & damaged springs			C	C	C	*	
EVERY YEAR	Perform a discharge test				S	S	*	
	Protectant				S	S	*	
	Check shoe lining thickness & rear axle beating play				C	C	*	
	Check steering knuckle, bushing free-play & adjust wheel alignment				CA	CA	CA	*
	Check wheel nut tightness & front wheel bearing play				C	C	C	8-9/*
	Check gear box oil level & leakage				C	C	C	8-8
	Check operation & adjust stop pedal if necessary				CA	CA	CA	*
EVERY 4 YEARS	Replace gear box oil					R	*	
	Check for grease leakage; adjust gear box if necessary					CA	8-8	

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

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

STORAGE

Perform the following preparations when leaving your golf car unused for a period of 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 25psi (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. Disconnecting cables in case of long storage



CAUTION

Cleaning products must not be put into battery cells

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

WARRANTY & AFTER-SALES SERVICE

Please refer to your dealer for all warranty terms and conditions

