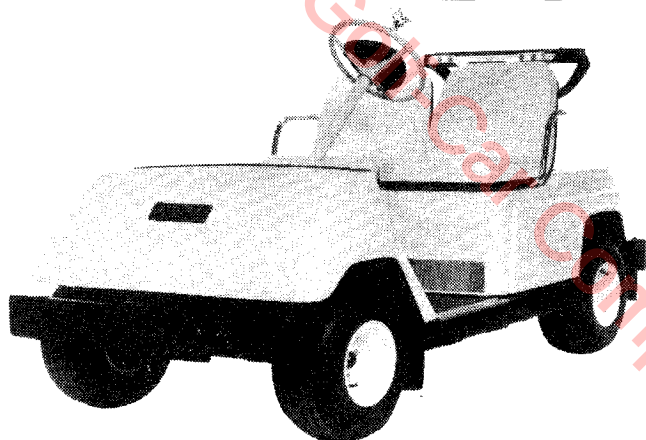




YAMAHA

ELECTRIC GOLF CAR OWNER'S MANUAL

G1-E3



LIT-11626-03-28

J22-28199-10

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LIT-11626-03-28

IMPORTANT:
**PLEASE READ THIS MANUAL CAREFULLY AND COMPLETELY
BEFORE OPERATING THIS VEHICLE.**

Particularly important information is distinguished in this manual by the following notations.

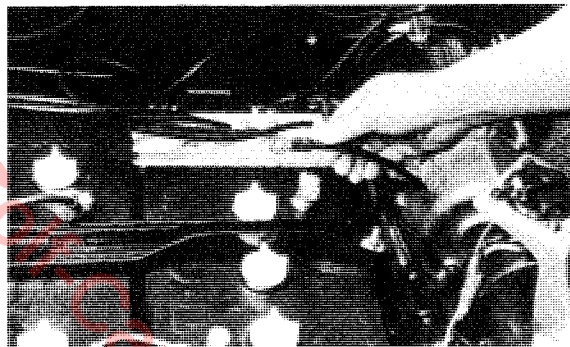
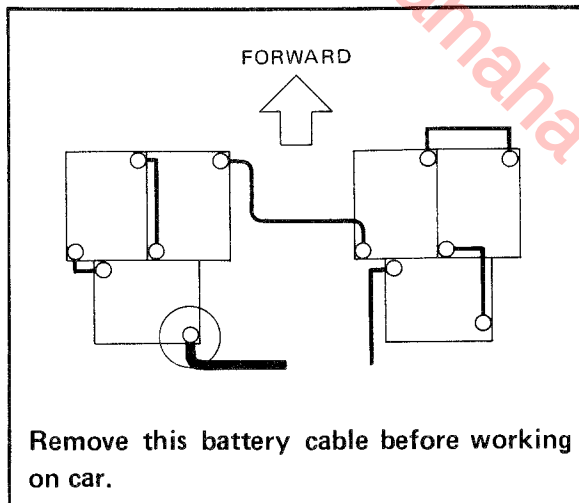
NOTE: A NOTE provides key information to make procedures easier or clearer.

CAUTION: A CAUTION indicates special procedures that must be followed to avoid damage to the machine.

WARNING: A WARNING indicates special procedures that must be followed to avoid injury to a machine operator or person inspecting or repairing the machine.

CAUTION:

To prevent possible injury, disconnect battery before working on vehicle. Remove the positive battery cable as shown below.



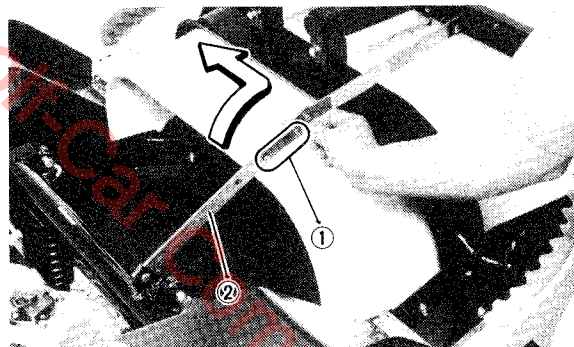
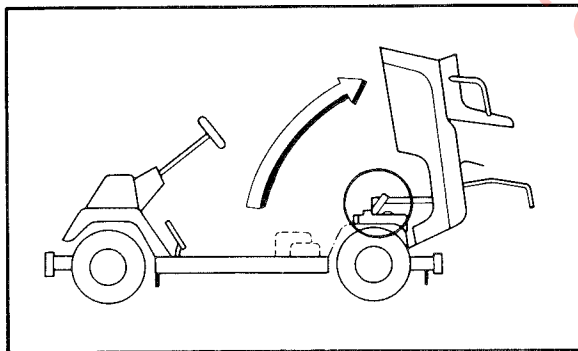
OPENING AND CLOSING OF THE REAR BODY

1) Opening the body

When checking the machine with the rear body opened, be sure to lock the body for safety by inserting the safety lock pin attached to the body stay into the hole in the other stay.

CAUTION:

Be sure to insert the safety lock pin into the hole.



1. Safety lock pin

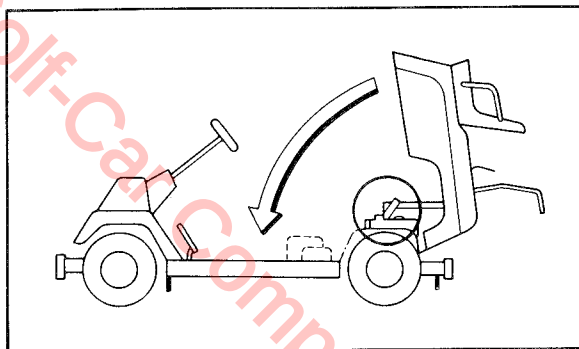
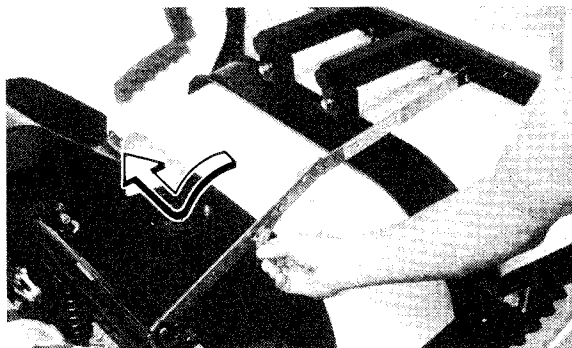
2. Stay

2) Closing the body

Pull out the safety lock pin and insert it into the original hole (home position), then close the body slowly.

CAUTION:

Don't loose your hold of the cowl, or it will fall down of its own weight and will be damaged.



INTRODUCTION

Congratulations; Your choice of a Yamaha golf car assures you of the highest quality and dependability. Your Yamaha golf car is manufactured by a company well-known for excellence in the field of recreational vehicles, using the most advanced production equipment and technology. We are confident that this golf car will fully meet your needs. This manual is designed to acquaint you with the operation and minor maintenance required for satisfactory service of this golf car. Should major repairs every be required, you are advised to consult your nearest Yamaha golf car dealer who will assure you of the best service. We hope that the information within this booklet will help you enjoy many hours of pleasure with your Yamaha golf car.

NOTICE: _____

Some data in this manual may become outdated due to improvements made to this model in the future. If there is any question concerning this manual, consult your nearby Yamaha dealer.

SERVICE DEPT.
INTERNATIONAL DIVISION
YAMAHA MOTOR CO., LTD.

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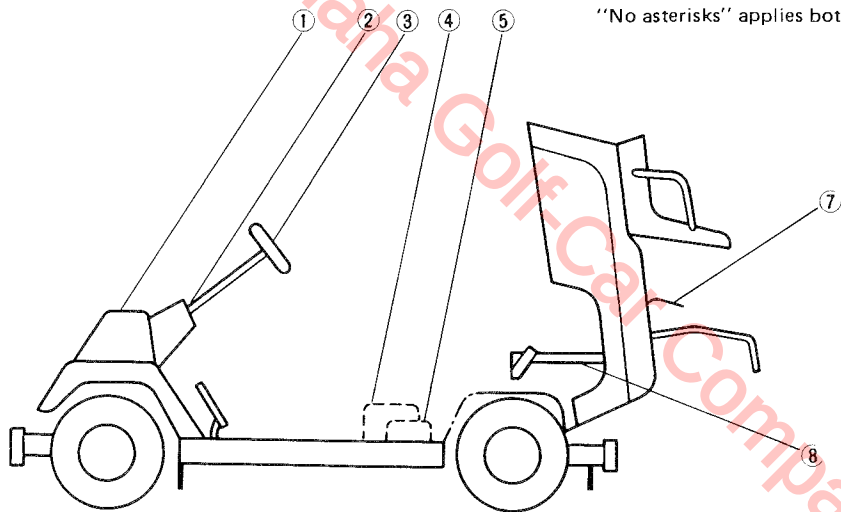
1. LOCATION OF THE "CAUTION AND SPECIFICATION LABELS"

() indicate label location.

*: For G1-A only

** : For G1-E only

"No asterisks" applies both G1-A and G1-E.



(Front cowl top)

①

FOR YOUR SAFETY

- ALWAYS SET BRAKE BEFORE LEAVING CAR
- DRIVE SLOWLY ON HILLS, SLOPES & INCLINES
- AVOID SHARP QUICK TURNS
- ONLY 2 PASSENGERS ALLOWED
- KEEP FEET AND ARMS INSIDE CAR
- NO CHILDREN TO OPERATE CAR
- KEEP PROPER DISTANCE FROM GREENS, TEES & TRAPS
- OBSERVE CLUB RULES FOR CAR OPERATION

YOU ARE RESPONSIBLE FOR ANY DAMAGE
TO THIS CAR WHILE IN YOUR POSSESSION

*(Instrument panel)

②

**DO NOT CHANGE
SWITCH POSITION
WHILE CAR IS MOVING**

(Steering handle)

③

OPERATING INSTRUCTIONS

- SELECT PROPER SWITCH POSITION BEFORE STARTING THE CAR.
- CAR STARTS AUTOMATICALLY WHEN ACCELERATOR PEDAL IS DEPRESSED, AND STOPS WHEN THE PEDAL IS FULLY RELEASED.
- SET PARKING BRAKE BY FIRMLY DEPRESSING THE TOP SECTION OF BRAKE PEDAL WHEN LEAVING CAR. BRAKE AUTOMATICALLY RELEASES WHEN ACCELERATOR PEDAL IS DEPRESSED.
- BRING CAR TO COMPLETE STOP BEFORE REVERSING DIRECTION.
- DRIVE STRAIGHT UP AND DOWN INCLINES.
- DRIVE SLOWLY WHEN MAKING SHARP TURNS.

WARNING

THIS VEHICLE WAS NOT MANUFACTURED FOR USE
ON PUBLIC STREETS AND DOES NOT COMPLY WITH
FEDERAL MOTOR VEHICLE SAFETY STANDARDS
APPLICABLE TO PASSENGER CARS.

(Battery)

④

POISON/ DANGER CAUSES SEVERE BURNS

Contains sulfuric acid - Avoid contact
with skin, eyes or clothing - Antidote:
EXTERNAL: Flush with water.
INTERNAL: Drink - large quantities
water or milk. Follow with milk of
magnesia, beaten egg or veg. oil.
Call physician immediately. Eyes:
Flush with water for 15 minutes and
get prompt medical attention. Batter-
ies produce explosive gases. Keep
sparks, flame, cigarettes away. Venti-
late when charging or using in en-
closed space. Always shield eyes
when working near batteries.

**KEEP OUT OF REACH
OF CHILDREN**

** (Solenoid cover)

⑤

**DO NOT SPRAY
HIGH PRESSURE WATER
ON THE SOLENOID TOPS
OR UNDER THIS COVER**

*(In front of oil tank)

⑥

NOTICE! THIS CAR IS EQUIPPED WITH AUTOLUBE
OIL INJECTION SYSTEM. DO NOT USE A GASOLINE-OIL MIX
FILL WITH YAMALUBE 2 OIL

- (A BIA, TC-W TYPE OIL CAN BE USED IF YAMALUBE 2 IS NOT AVAILABLE)
- CHECK OIL LEVEL SIGHT GAUGE DURING SERVICING TO MAINTAIN
PROPER OPERATING LEVEL

*(Back of fuel lid)

⑦

NOTICE

USE STRAIGHT GASOLINE ONLY

DO NOT USE A GASOLINE-OIL MIX

THIS CAR IS EQUIPPED WITH AUTOLUBE OIL INJECTION SYSTEM

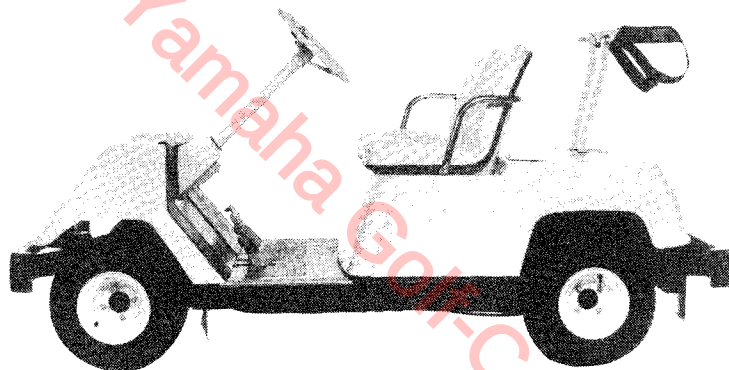
CHECK OIL TANK LEVEL PERIODICALLY

(Cowl supporting leg)

⑧

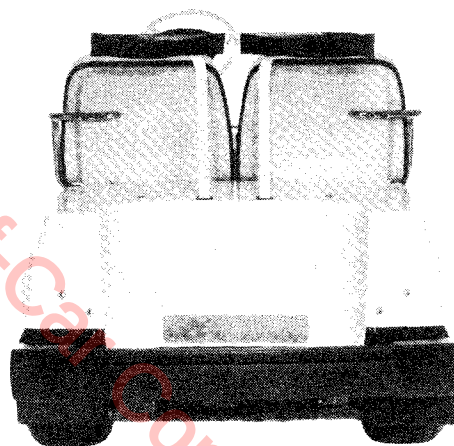
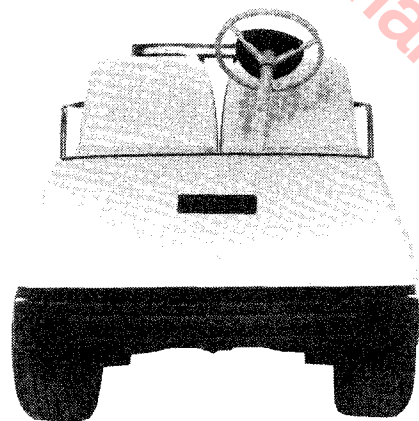
**WARNING TO PREVENT ACCIDENTAL
CLOSING OF BODY, INSERT PIN OR
SCREWDRIVER IN HOLE**

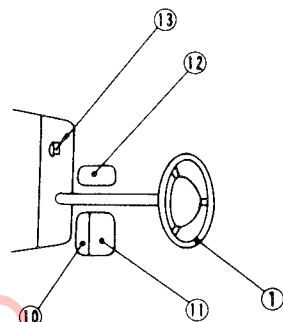
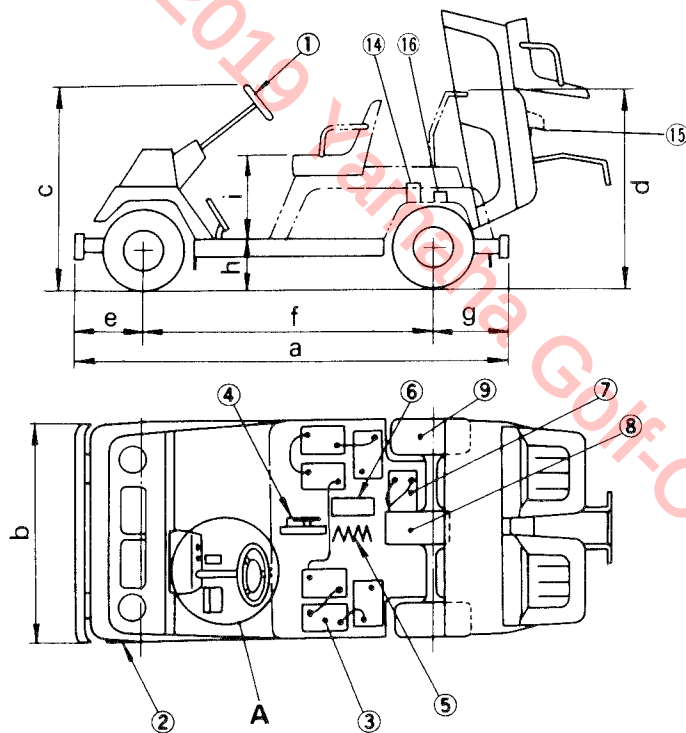
2. DESCRIPTION



NOTE: _____

The golf car that you have purchased differs partly in designs and specifications from that shown in this photo.

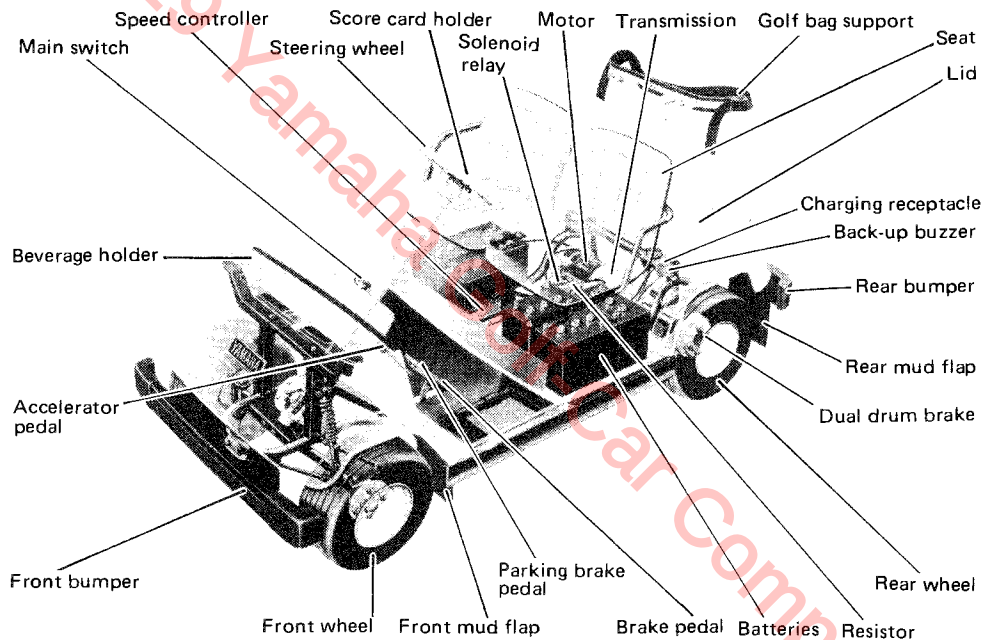




Expanded View of A

a.	Overall length	2,403 mm (94.6 in)
b.	Overall width	1,140 mm (44.9 in)
c.	Steering height	1,180 mm (46.5 in)
d.	Carrier height	1,100 mm (43.3 in)
e.	Over-hang (front)	364 mm (14.3 in)
f.	Wheelbase	1,550 mm (61.0 in)
g.	Over-hang (rear)	489 mm (19.3 in)
h.	Height of floor	295 mm (11.6 in)
i.	Height of seat from floor	428 mm (16.9 in)

- 1 Steering wheel
- 2 Front wheel
- 3 Batteries
- 4 Speedo controller
- 5 Resistor
- 6 Solenoids
- 7 Motor
- 8 Transmission
- 9 Rear wheel
- 10 Parking brake pedal
- 11 Brake pedal
- 12 Accelerator pedal
- 13 Main switch
- Tire size (Tubeless)
- (Front) 18 x 8.50-8-4PR
- (Rear) 18 x 8.50-8-4PR
- 14 Charging receptacle
- 15 LID
- 16 Back-up buzzer



3. FEATURES

1) Quietness

Yamaha has used every possible means to reduce the operating noise to the lowest possible level.

2) Acceleration

The 6-speed control switch allows smooth and powerful acceleration.

3) Riding comfort

Coil springs and shock absorbers provide suspension for both front and rear wheels for greatly improved comfort. This also improves steering and ensures stability.

4) Reliability

The reliability of Yamaha products is widely known among users. The direct drive mechanism simplifies the golf car's construction and increases its reliability.

5) Ease of service

The body shell is hinged to fully open to the rear, allowing easy access to the internal working components.

6) Durability

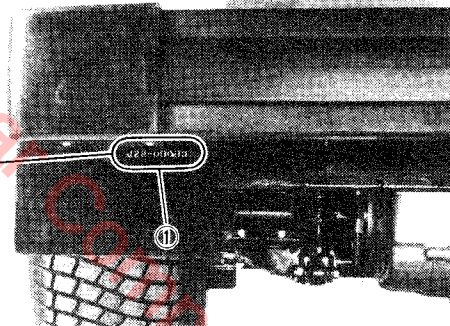
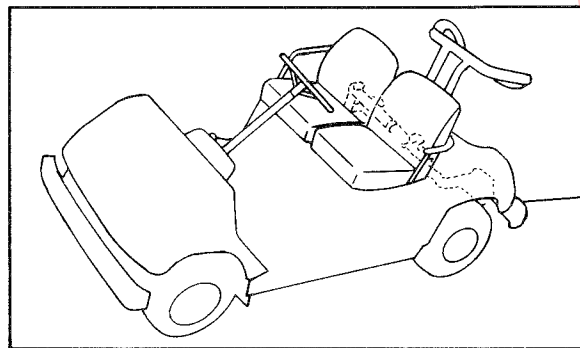
The front cowl is made of flexible urethane so that it can withstand a severe impact.

To increase the wear-resistance of the floor mat, it contains more fibers. All screws and floor metallic surfaces are specially treated for rust-resistance.

4. MACHINE IDENTIFICATION

Frame serial number

The frame serial number is located on the left-hand side of the rectangular pipe by the rear bumper. The first three digits identify the model. This is followed by a dash. The remaining digits identify the production number of the unit.



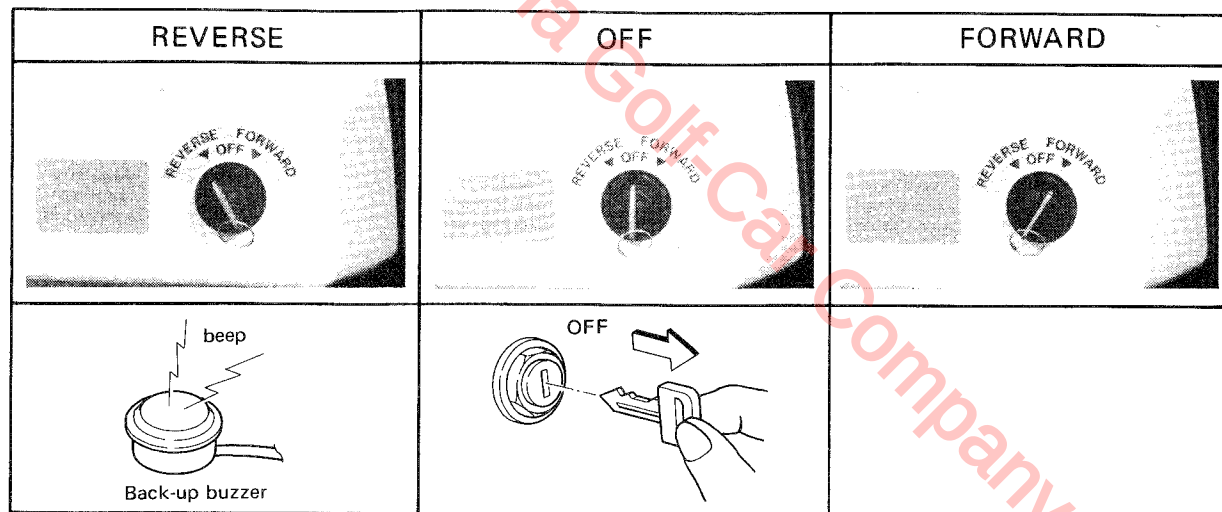
1. Frame serial number

5. MAIN PARTS FOR OPERATION

1) Main switch

The switch has three positions: Forward, Reverse, and Off. Turn to the right for the "Forward" position. Turn to the left for the "Reverse" position and the back

buzzer beeps for warning. Whenever the key is in "Off" position, the motor cannot be started and the key can be removed.



2) Accelerator pedal

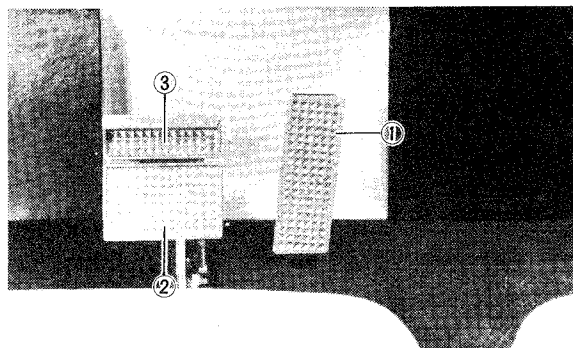
With the key in the Forward or Reverse position, depressing the accelerator pedal will start the motor and make the car move in the selected direction. When the accelerator pedal is released, the motor will stop and the car will coast to a halt.

3) Brake pedal

When the brake is depressed, the brakes will be applied in proportion to the force applied to the brake pedal.

4) Parking brake

The parking brake — (above the regular brake pedal) — functions as a lock on the regular brake. By depressing both at the same time, the parking brake is actuated. Depressing the accelerator pedal automatically release the parking brake.



1. Accelerator pedal
2. Brake pedal
3. Parking brake

6. OPERATION INSTRUCTIONS

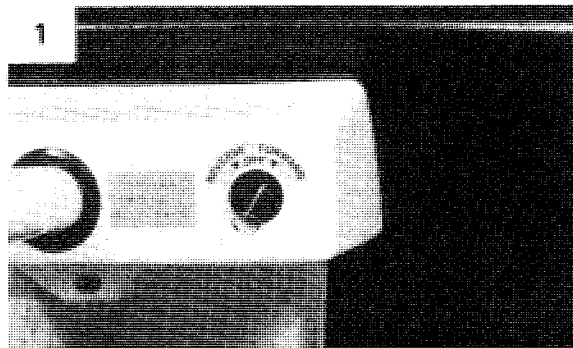
1) Driving

a. Forward

Turn the main switch to "Forward". Slowly depress the accelerator pedal. The car will start to move off. Do not depress the accelerator pedal too sharply.

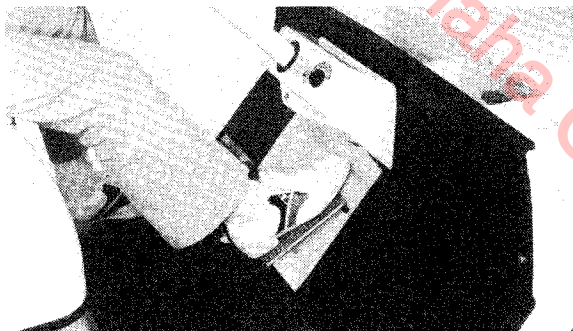
CAUTION:

- Do not depress the accelerator pedal before turning on the switch, or too sharply.
- Avoid starting or stopping abruptly; it's hard on the car and the turf.
- Avoid turning the steering wheel too sharply in order to avoid a possible accident.



NOTE:

Total distance travelled per battery charge will be greater if full speed is utilized whenever safety and conditions permit. Namely, the most efficient mode of operation is when the accelerator pedal is fully depressed.



b. Reverse

Turn the main switch to "Reverse". When the main switch is turned to reverse, back-up buzzer will sound. Slowly depress the accelerator pedal and the motor will start.

CAUTION:

Bring the car to a complete stop before changing directions.

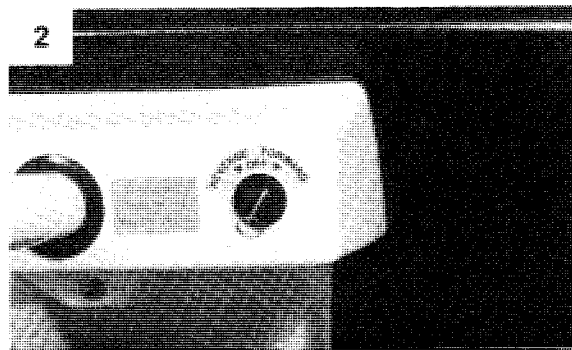
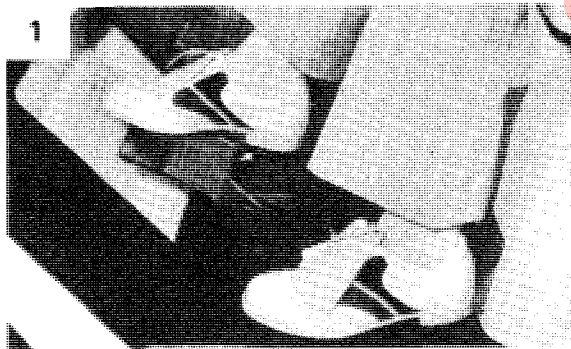


c. Starting on an upward slope

On an upward slope, set the parking brake, turn the main switch to "Forward" and depress the accelerator pedal.

WARNING:

Always drive straight up or straight down inclines; never at an angle.



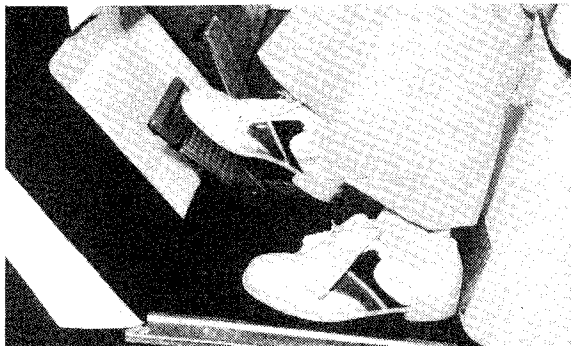
2) Stopping

To slow or stop the car, move your foot off the accelerator pedal and carefully depress the brake pedal as much as necessary.

3) Parking

a. Parking

Depress both the regular brake pedal and the parking brake pedal to the same time to actuate the parking brake.

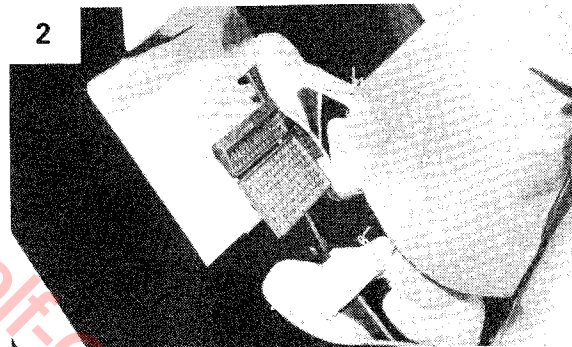
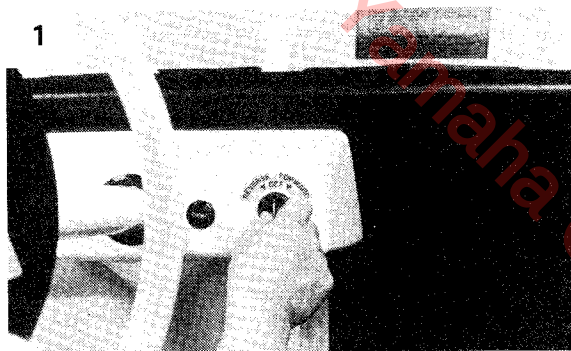


WARNING:

- Park the car on a level surface as much as possible.
 - Do not leave car unattended unless main switch is in the "Off" position or key is removed and the parking brake is on, since accidental movement of the accelerator pedal will put car in motion or may cause it to coast down an incline.
-

b. Unparking

Set the main switch to off. To release the parking brake, depress the accelerator slightly.



7. TIPS AND CAUTIONS

Driving the Yamaha golf car is very easy even for beginners completely unfamiliar with golf car operation. However, special attention is required for safe operation when driving over varied terrain.

- * Bring the car to a complete stop before changing directions.
- * Do not depress the accelerator pedal too sharply.
- * Avoid starting or stopping abruptly; it's hard on the car and the turf.
- * Avoid turning the steering wheel too sharply.
- * Keep your hands on the wheel, and your eyes on the path ahead.
- * Always drive straight up or straight down inclines; never at an angle.
- * When backing up, do so slowly, and watch where you are going.

- * Park the car on a level surface as much as possible.
- * Do not leave car unattended unless the main switch is in the "Off" position and the parking brake is on, since accidental movement of the accelerator pedal will put car in motion or may cause it to coast down an incline.
- * Never allow more than two people to ride in the car.
- * Total distance travelled per battery charge will be greater if full speed is utilized whenever safety and conditions permit. Namely, the most efficient mode of operation is when the accelerator pedal is fully depressed.

8. PERIODIC MAINTENANCE AND MINOR REPAIR

Periodic inspection, and adjustment will keep your electric golf car in the safest and most efficient condition possible. Safety is an obligation of the electric golf car owner.

The most important points of inspection and adjustment are explained in the following.

WARNING:

If the owner is not familiar with electric golf car service, this work should be done by a Yamaha dealer.

1) Daily check

Everyone realizes that it is not feasible to perform mechanical checks on a golf car every day. But for best operation from a safety and maintenance standpoint, it is

important that any car that is not functioning correctly be removed from use until it is properly repaired. The only practical way to satisfy both requirements is to ask that the owner or whoever is responsible for moving the cars from the storage area to the use area be aware of the proper "feel" of the car on such critical areas as BRAKE OPERATION, ACCELERATOR OPERATION, STEERING MOVEMENT AND PLAY, and other operator controls. Any function that does not have the proper "feel" should be inspected more closely.

The best way to insure that proper attention is given to these items is to impress upon the owner or the person who moves the cars that it is an important part of the service procedure, and if responsibly carried out, can improve safety and prevent customer dissatisfaction.

2) Periodic maintenance table

Item	Remarks	Daily	Weekly	Monthly	Others	Page
Batteries	Charge	○				28
	Check electrolyte level.		○			22-a
	Clean tops and terminals, check for corrosion.		○			23-b
	Check for loose or broken connections.			○		33-c
	Check the specific gravity of electrolyte.		○ (3~4 cells)		every two months (all cells)	23-c 24-d 25-e
Brakes	Check operation and adjust if necessary.	○				49-c, d
	Adjustment: Brake pedal play [22 ~ 28 mm (0.87 ~ 1.1 in)]			○		35
Steering	Check operation and adjust if necessary. Oil capacity: 0.16 US qt. (150 cc)/SAE #90 (with the front wheels steered straight ahead)	○				48-a, b 41-6)
	Adjustment				every year	
Tires	Check pressure and correct if necessary. [14 psi (1 kg/cm ²)]	○		○		35
	Check for wear or damage.	○		○		50-g

Item	Remarks	Daily	Weekly	Monthly	Others	Page
Body & Chassis	Check for body and chassis damage.			○		
	Check tightness of all bolts, nuts and screws.				every year	
Differential	Check gearbox oil level and leakage.				every six months	41-5)
	Replace gearbox oil. [SAE #90 0.85 US qt. (800 cc)]				every two years	41-5)
Accelerator (including speed controller)	Check for free movement and return	○				49-e
	Check for loose or broken wires and connections.			○		34
	Check controller contacts.				every six months	37-4)
	Adjustment				every year	37-4)
Solenoid switch	Check "click" (Solenoid contact sound).	○				49-e
	Check wires and connections.				○	34
Traction motor	Check for loose or broken connections.				○	34
Resistor	Check for loose or broken wires and connections.				○	34
Wiring	Check all wire insulation for cracks and/or worn spots.				every six months	

Item	Remarks	Daily	Weekly	Monthly	Others	Refer to
General service check	Complete attention to other minor service items and adjustment should be attended to by an experienced mechanic at least once a year.				every year	

NOTE: Keep from water all the electric parts; solenoids, motor, resistor and controller.

9. OWNER SERVICING

WARNING:

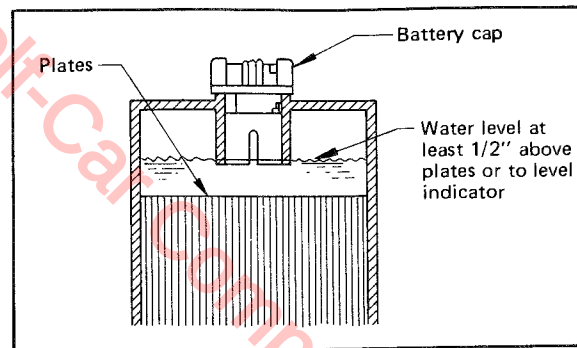
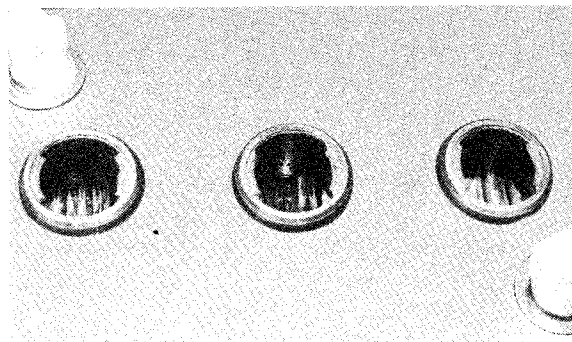
For any adjustments or repairs not mentioned in the preceding owner service section, take your golf car to the nearest Yamaha golf car service dealer.

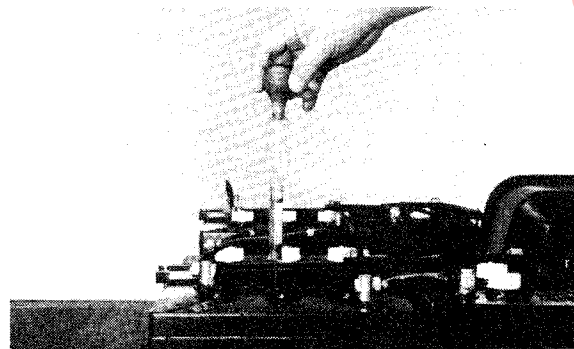
1) Battery

BATTERY CARE

To keep your batteries in top condition, follow this maintenance program on a regular basis:

- a. Check the electrolyte level weekly. Fill to manufactures recommended level when necessary. Use only distilled water or other water certified within imurity limits for battery use. Do not overfill!





b. Clean the battery tops weekly by hosing, off with a water hose. While this is being done, inspect the battery terminals, hold-downs and general area for corrosion. If found, consult your Yamaha dealer for corrective measures.

c. Check the specific gravity of the battery electrolyte every week by "spot checking" 3 ~ 4 cells.

Always first add water as necessary, then charge the batteries, then wait for the bubbles in the electrolyte to dissipate, then check specific gravity. Every two months, check all cells. If any low readings are found, consult your Yamaha dealer with this information to determine appropriate action.

WARNING:

Battery electrolyte is poisonous and dangerous, causing severe burns, etc. Contains sulfuric acid. Avoid contact with skin, eyes or clothing.

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, flame, cigarettes, etc., away. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries.

KEEP OUT OF REACH OF CHILDREN.

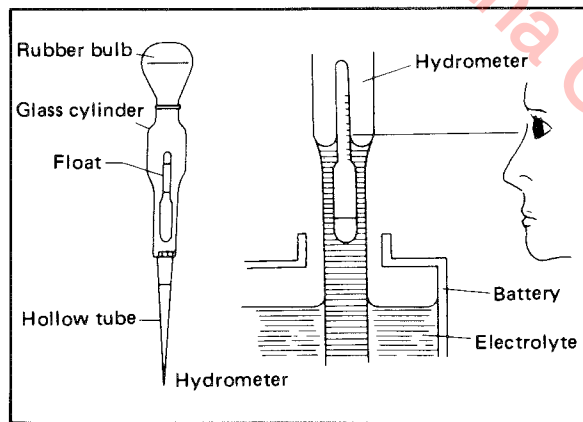
d. Specific gravity table

The specific gravity of battery electrolyte varies greatly according to temperatures, use the chart as reference.

Temperature		Satisfactory uncorrected 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	10.0	1.272
40	4.4	1.276
30	-1.1	1.280

The reading should be 1.260 at 80°F (26.7°C). If the specific gravity is low, charge the batteries. Before charging batteries, remove the vent caps, and be sure the vent holes are free to permit escape of gases. Then replace the vent caps on the batteries, and charging the batteries.

e. Hydrometer



By squeezing and releasing the rubber bulb, fill with fluid until the float is positioned as in the illustration.

With the hydrometer float supported by the fluid, check the specific gravity. Be sure to read as illustrated.

BATTERY CARE FOR ELECTRIC CARS

WARNING:

Batteries emit hydrogen gas while they are charging. Hydrogen gas is extremely explosive, all possible sources of ignition, such as flames, sparks, etc., must be kept away from charging batteries.

1. New batteries must be given at least a 12-hour charge before their first use. Check the specific gravity to ensure adequate charging.
2. For the first five rounds, new batteries should go only 18 holes between charges.
3. Charge the batteries daily if they are used; the charge time is dependent on the amount the car is operated. In addition, a 20-minute charge between rounds helps extend battery life.
4. Add only distilled water to obtain the proper electrolyte level; do not overfill the cells. **Never** add electrolyte to a battery already in service.
5. Organize and store the cars so they get equal use.
6. Check the specific gravity of the electrolyte and refer to the catch-up chart to determine if a catch-up charge is needed.
7. The specific-gravity charts must be used to ensure proper charging; the charts should be prominently displayed.
8. Temperature has an effect on specific-gravity readings; this effect is computed on the specific-gravity charts. Use a combined hydrometer/thermometer for accurate readings. **Never** use a "floating ball" type hydrometer.
9. To ensure accuracy, hydrometers must be cleaned regularly; flush them with clean water after each day's use.

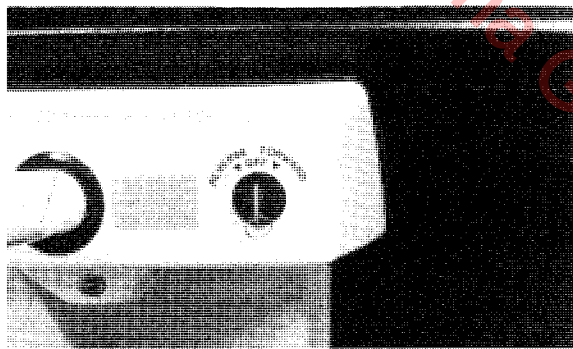
10. As batteries get older, their lives can be extended by decreasing the charge time from the normal 12 hours to as little as six hours when they are close to replacement.
11. Be sure the main switch of the car is turned off before charging the batteries.
12. The charger switch must be turned off when inserting and removing the charger plug at the car's receptacle; this will help prevent dangerous sparks near the batteries.
13. Place the charger cord carefully to avoid damage and accidents.
14. The charger should be mounted on a platform above the ground or in such a way to allow airflow beneath and around the charger; this will prevent overheating and possible damage to the charger.
15. Before charging batteries, remove the vent caps and inspect the vents for obstructions. Replace the vent caps after ensuring that the vents are clear, and proceed with charging.
16. Batteries which are operated with a low charge will soon sulfate, decreasing their service lives.
17. Overcharging batteries will seriously decrease their lives.

BATTERY CHARGING

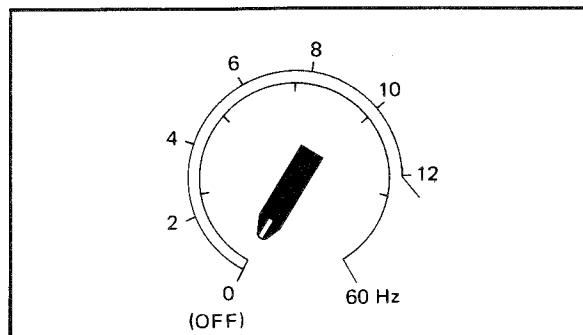
NOTE:

Charge the batteries after each day of use, or periodically during extended storage.

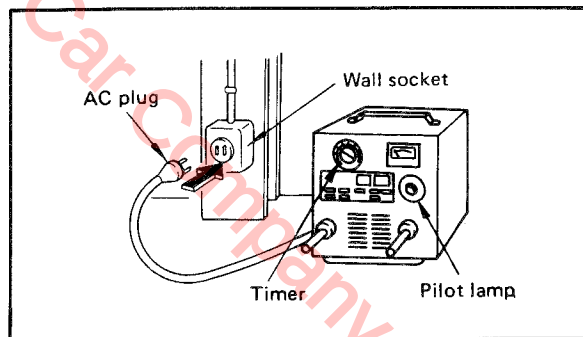
- Turn the main switch to the "OFF" position.



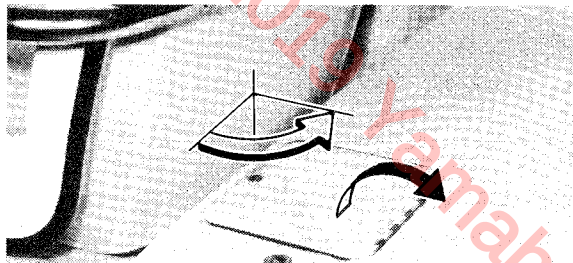
- Turn off the charger timer switch to the "0 Hr" position.



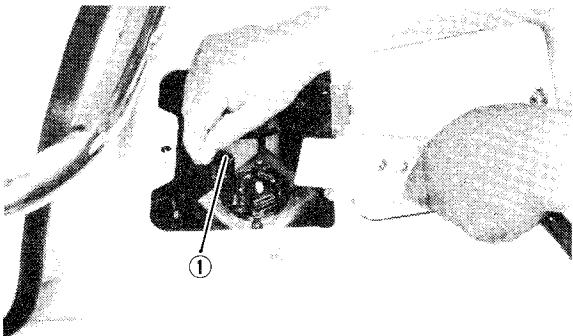
- Connect the AC plug of the battery charger to a wall socket.



d. Turn the knob and open the lid.

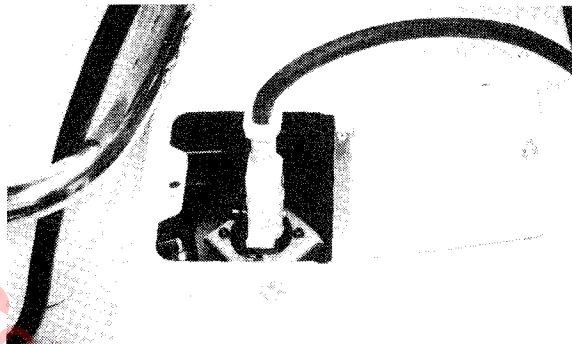


e. Open the receptacle cap.



1. Receptacle cap

f. Insert the charger plug into the car's charging receptacle.

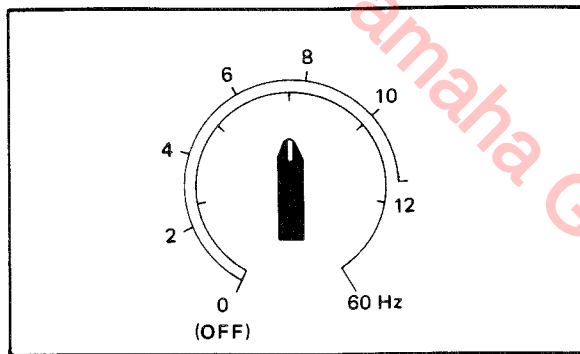


WARNING:

Do not unplug the charger from the receptacle in the car until the charger is turned off. Unplugging an operating charger will cause sparks.

- g. Normally, set the charger's timer at 7 (hours). When it is set, the pilot lamp turns on and charging starts.

In a cold season, the timer should be set at 12 (hours).



- h. When charging is complete, the switch turns off automatically and the pilot lamp also turns off.

* Charging to the battery is automatically controlled by the charger and therefore, you don't have to worry about the risk of overcharging.

NOTE: _____

Use the following for setting the charger time:

Finish rate on Charger Ammeter	Timer setting
1 • 4 Amps	12 Hrs
6 • 8 Amps	10 Hrs
10 • 12 Amps	8 Hrs
15 Amps +	6 Hrs

Batteries should be charged every day that they are used even if the car only went 9 holes. However, the batteries should not be charged if they are not used unless testing shows that a catch-up charge is required. This would lead to overcharging.

Catch-up and storage charge recommendations*:

State of charge (Specific Gravity)	Charge
1.260 to 1.280	None needed
1.240 to 1.260	4 Hours
1.220 to 1.240	8 Hours
Below 1.220	12 Hours

- * For simple guide to charge, see the following chart.

CHARGING TIME CHART

GOLF CAR USE	CHARGING TIME
9 holes or less	7 hours
18 holes or more	12 hours
COMMERCIAL USE	
Less than 1 hour	7 hours
More than 1 hour	12 hours

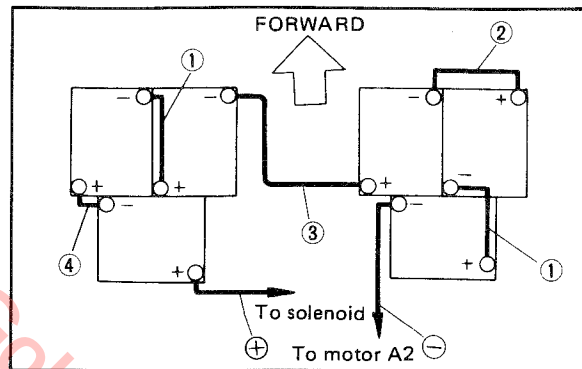
CAUTION:

- Take care that the batteries are not over-charged. This will shorten their life.
- Never charge the batteries in a closed area. Choose a well-ventilated area.

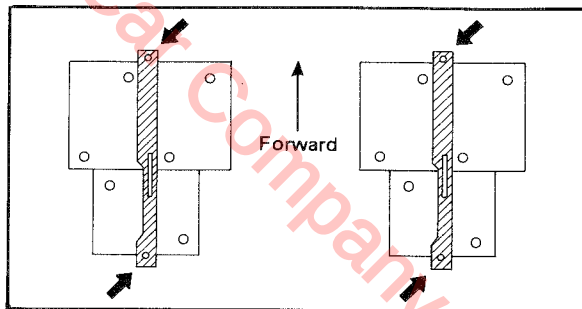
WARNING:

Keep fire and sparks away from the batteries while they are being charged. (Explosive gases are formed during charging)

BATTERY INSTALLATION AND WIRE LEAD CONNECTION



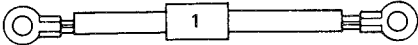
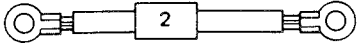
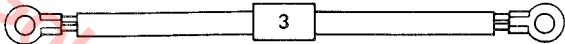
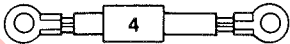
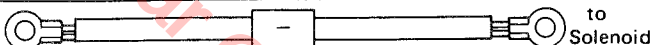
- a. Install the battery holddown plates as shown.



CAUTION:

Do not overtighten the battery holddown nuts. Excessive force will damage the battery casing.

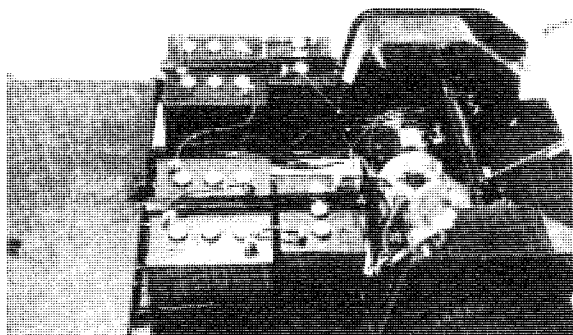
- b. Connect the wire leads as shown. Each wire lead has its own length, position and identification mark.

No.	Items	Q'ty	Identification mark
1	Wire lead 1	2	
2	Wire lead 2	1	
3	Wire lead 3	1	
4	Wire lead 4	1	
	(Wire positive lead)	(1)	 to motor A2
	(Wire negative lead)	(1)	 to Solenoid

- c. Keep all battery wires, connectors, and posts free of corrosion, and their connector bolts tight.

Corrosion should be prevented by use of chemically treated felt washers, special corrosion resistant spray coating, or grease.

- d. Keep the batteries secured in position to avoid damage to the casing, internal parts, or connection posts and wires.



CAUTION:

- When installing batteries, be sure that maximum possible space is allowed between them to allow proper battery cooling.
- When placing batteries on a stand, make sure there is no pebbles or any other things on it and firmly secure them to the stand.
- Never hammer the battery terminals when connecting the cable terminals to batteries.

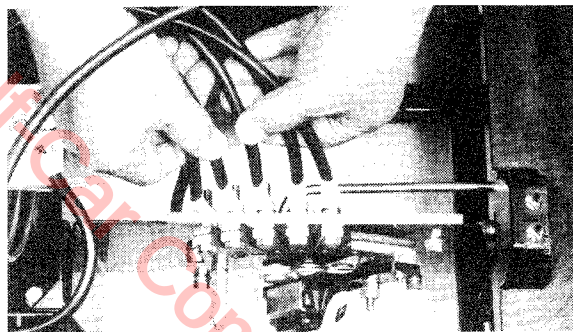
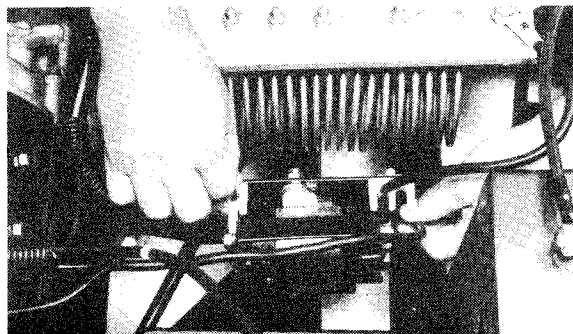
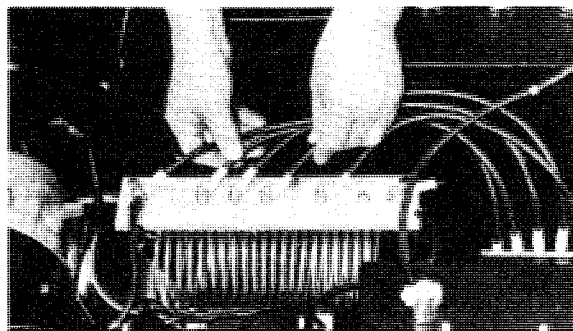
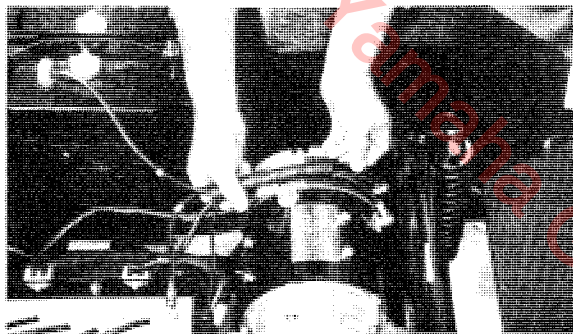
WARNING:

When installing batteries or tightening electrical connectors or terminals, be careful to avoid short circuiting by:

- 1) Careful placement of battery cables and holddowns.
- 2) Avoid touching wrenches to ground when tightening terminal nuts (insulate wrench with tape).
- 3) Always remove — cable to traction motor first, and install it last.

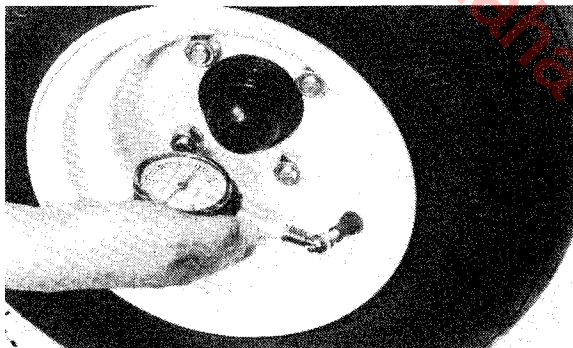
WIRING

Keep the wiring secured in position to avoid damage to the casing, internal parts, or connection posts and wire.



2) Tires

Check tire pressure. Tire pressure should be 14 psi (1.0 kg/cm²) for both front and rear tires. Check for wear or damage to the tires and replace any tire that is damaged or exceeds wear limits 1 mm (0.04 in).



3) Brakes

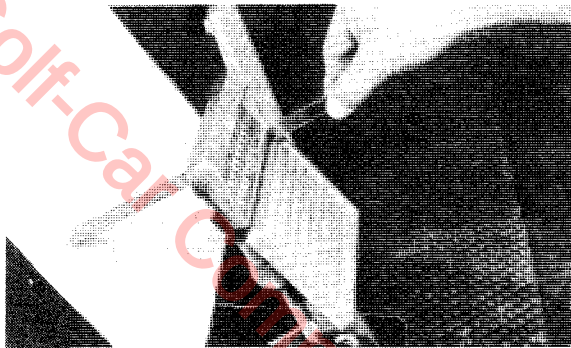
PROCEDURE

a. Brake shoe adjustment

Brake shoes are self-adjusting and therefore, adjustment by the owner is unnecessary.

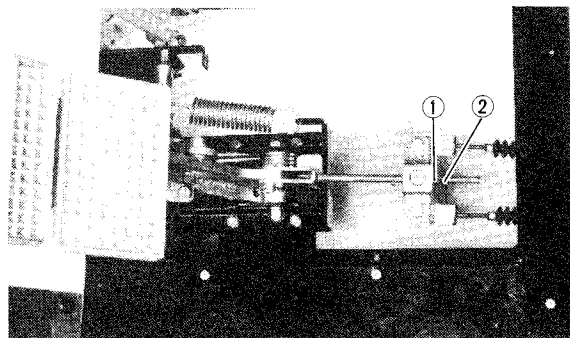
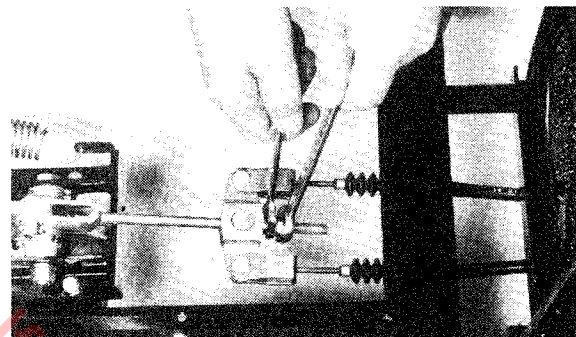
b. Linkage adjustment:

Check brake pedal play as illustrated. Brake pedal play should be 22 ~ 28 mm (0.87 ~ 1.10 in).





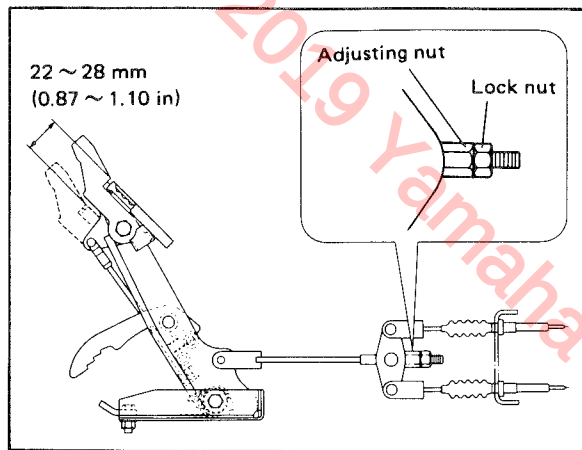
If the pedal play is not correct, adjust the cable tension adjusting nut under the Service Lid, which is located to the rear of the brake pedal.



1. Adjusting nut

2. Lock nut

Tighten the linkage adjusting lock nut until the brake pedal free play is between 22 ~ 28 mm (0.87 ~ 1.1 in).



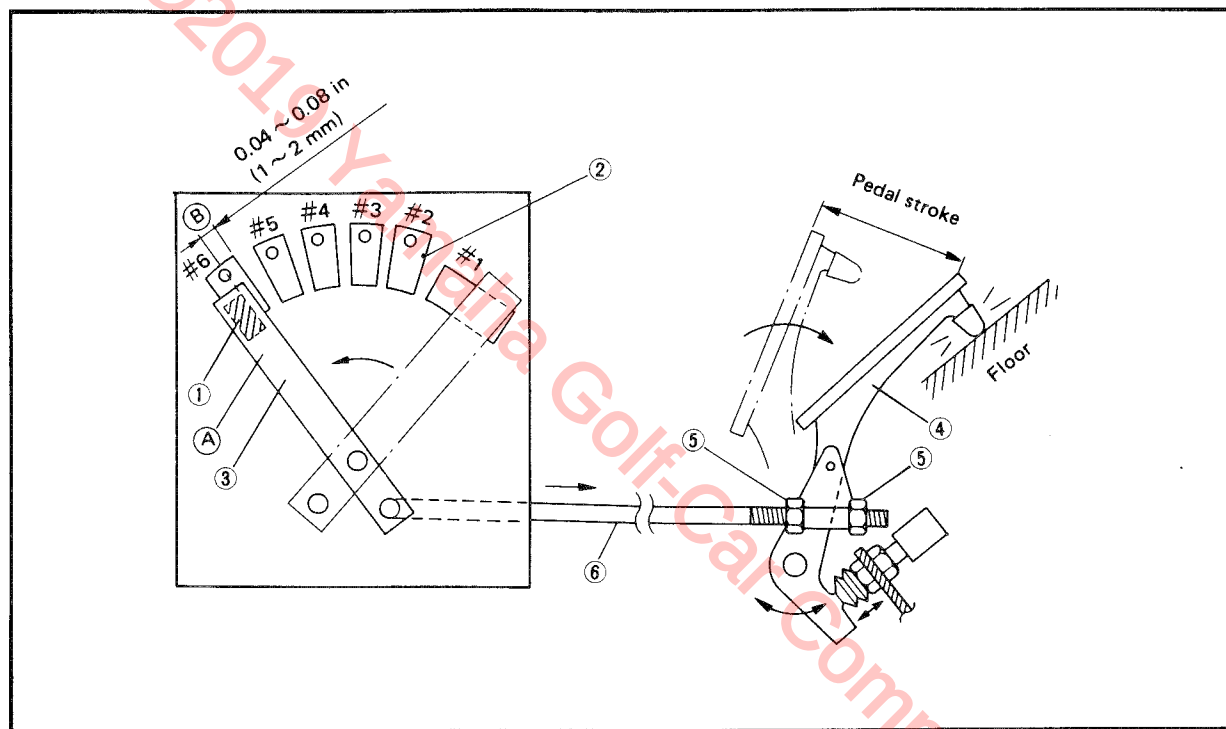
If this adjustment does not give smooth, even stopping without heavy pedal pressure, contact your Yamaha dealer before using your golf car again.

4) Adjustment of speed controller

- a. When accelerator pedal is slowly depressed to the full extent, check whether movable contact is located in position (A) (with the following allowance (B)) in relation to #6 fixed contact in the figure.

Allowance (B) : 1 ~ 2 mm
(0.04 ~ 0.08 in)

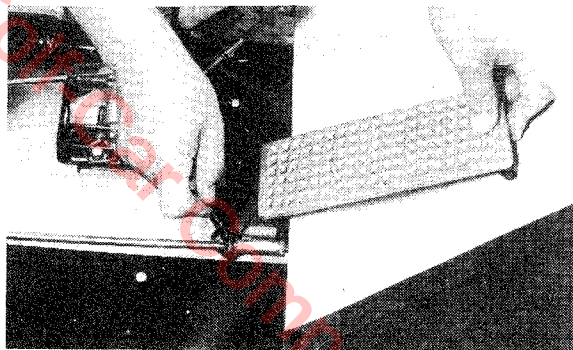
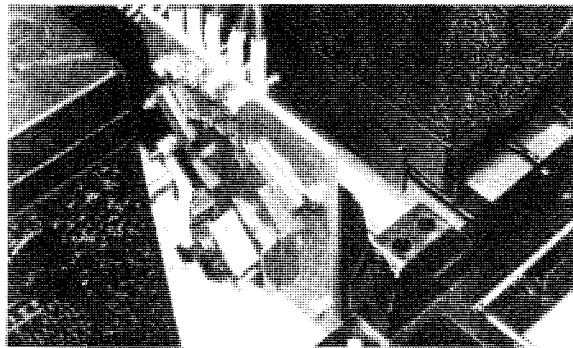
If not, loosen the two lock nuts (5) on accelerator rod (6) and bring the movable contact to the correct position. Tighten the two lock nuts securely.



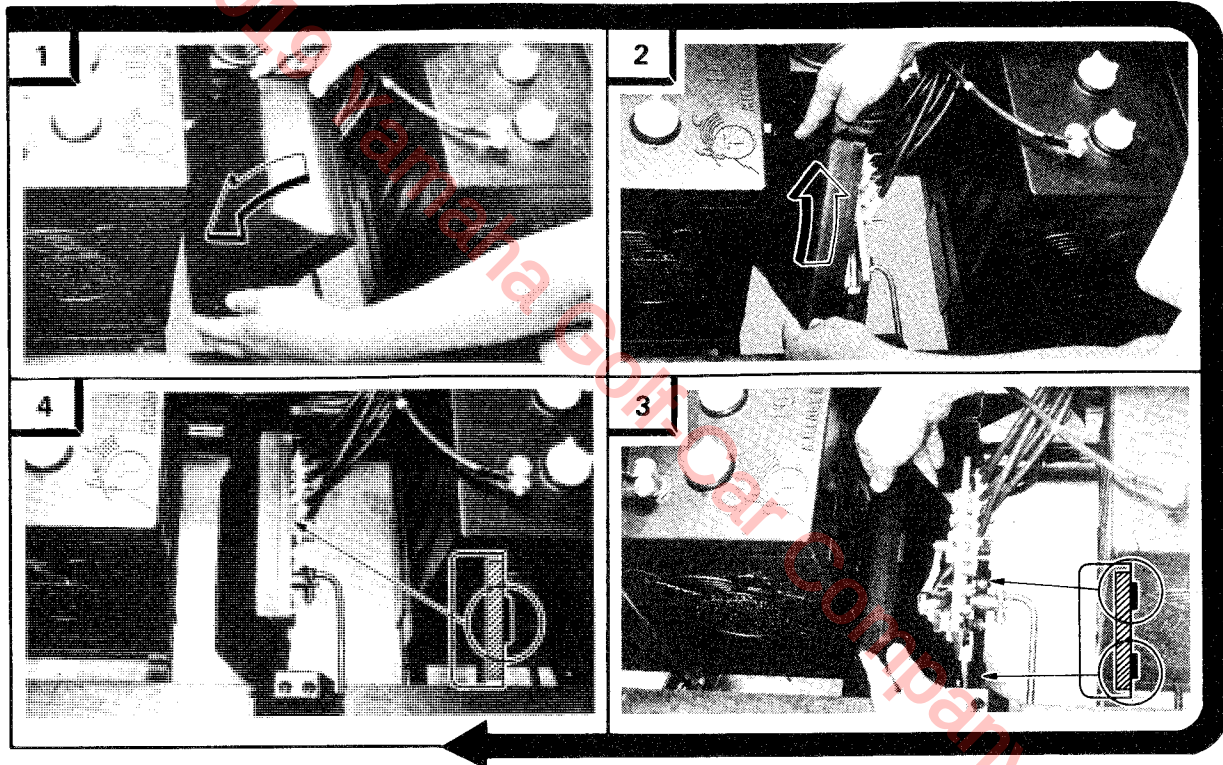
- | | |
|-----------------------------|----------------------|
| 1. Movable contact | 4. Accelerator pedal |
| 2. Fixed contacts (#1 ~ #6) | 5. Lock nuts |
| 3. Moving arm | 6. Accelerator rod |



1. Moving arm
2. Accelerator rod
3. Lock nuts



b. How to install speed controller cover.



5) Gear box oil

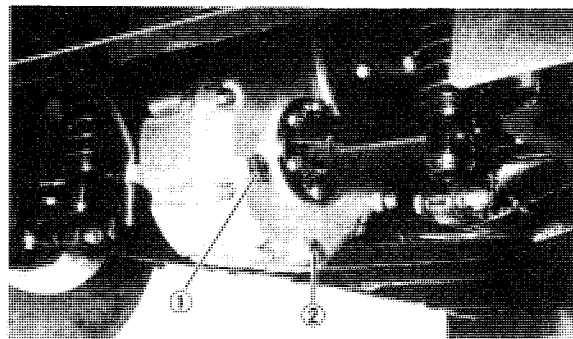
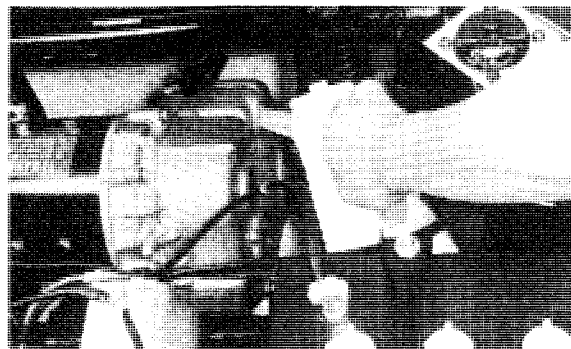
Check oil level using the level plug. Add oil if necessary.

Drain the gear box and refill it at least once every six months.

NOTE:

Use SAE 90 gear oil.

Capacity 0.85 Us qt. (800 cc).



- 1. Oil level plug
- 2. Drain bolt

6) Steering gear box oil

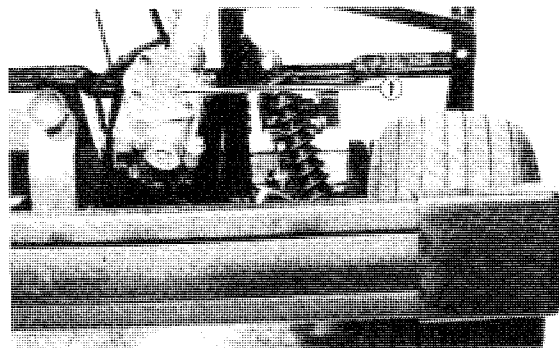
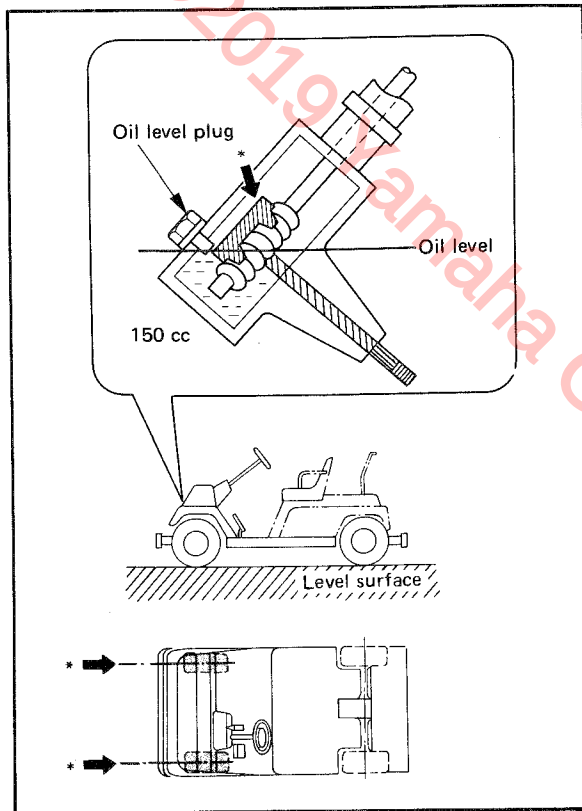
Remove the plug and refill oil, as required.

Lubrication oil grade: Gear oil SAE 90

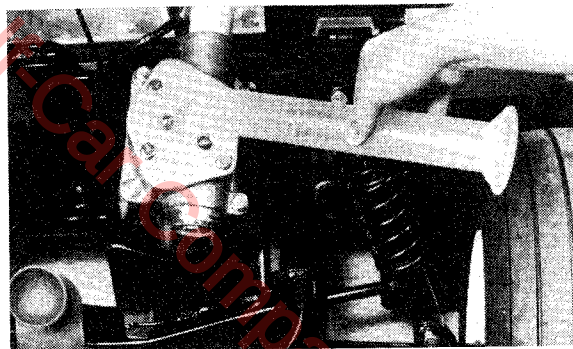
Capacity: 150 cc

NOTE:

When refilling, place the golf car on a level surface with both front wheels steered straight.



1. Oil level plug



10. STORAGE AND RETURN TO SERVICE

When a golf car is to be stored during the off-season, certain steps must be taken to prevent deterioration and extend the life of the car. Likewise, preparations must be made to return a car to service after storage.

STORAGE PREPARATION

1. Add distilled water to the battery cells to achieve the proper level.
2. Fully charge the batteries.
3. Check the specific gravity of the batteries every eight weeks, and charge them as necessary to maintain the proper specific gravity.
4. Store the batteries in an unheated area during the off-season.
5. Increase the tire pressure to 20 psi.

6. Protect the tires from moisture, oil, and ozone.
7. Clean and dry the chassis.
8. Avoid storing the car in damp, humid areas to prevent rust and corrosion.

RETURN TO SERVICE

1. Ensure that the battery is at the proper specific gravity and fluid level.
2. Adjust the tire pressure to 14 psi.
3. With the key turned off, check the operation of the brakes, parking brake, accelerator, and steering mechanism.

11. ACCESSORIES AND OPTIONAL EQUIPMENT

Part name	Part number	
	For U.S.A.	For Canada, Australia and others
Sun roof	* ABA-J1098-00-00	
Sweater basket	* ABA-J1097-00-00	
Tow bar assembly	* ABA-J1099-00-00	
Tow bar bracket set	* ABA-J1086-00-00	
Wind shield	** J11-78320-00	** J11-78320-00
Four passenger conversion		
Odometer		

*: Made in YPDI, U.S.A.

**: Made in YMC, Japan

The above mentioned accessories and optional equipment are available from Yamaha golf car dealer. Please contact to a dealer for detail informations.

12. MAINTENANCE CHECK LIST

1) Daily maintenance check list

CODE PROBLEM

1. TIRES:

- Inflation
- Uneven wear
- Damage or cuts

2. BRAKES:

- Pedal adjustment
- Parking lock
- Free movement

3. STEERING:

- Free movement
- Full-lock check
- Wheel play

4. ACCELERATOR:

- Free movement

5. RUNNING:

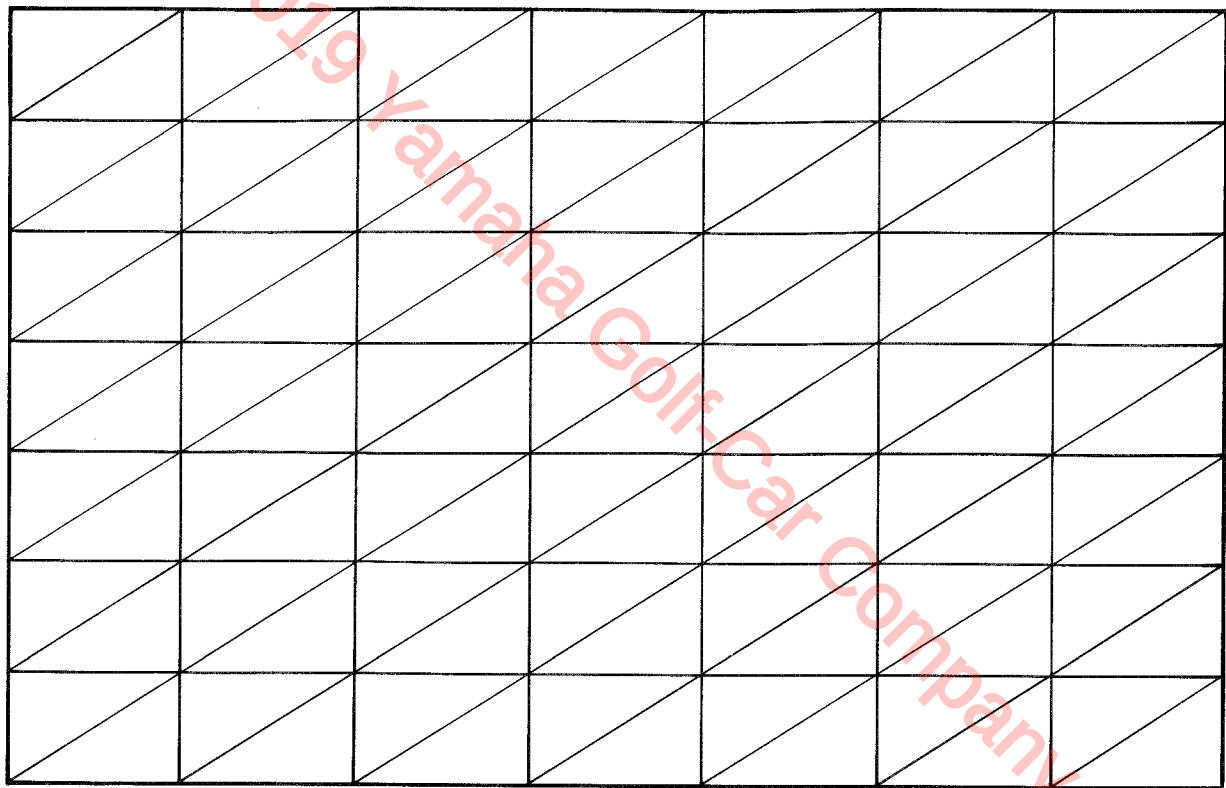
- Forward check
- Forward brakes
- Reverse check
- Back-up buzzer

6. RATTLES OR UNUSUAL NOISES

7. BATTERY FLUID LEVEL

8. CLEANUP

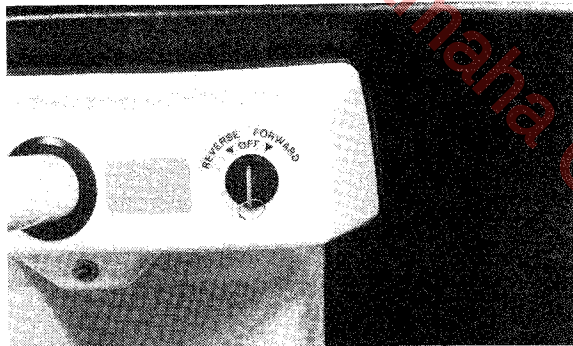
Record the date and, if necessary, the problem code:



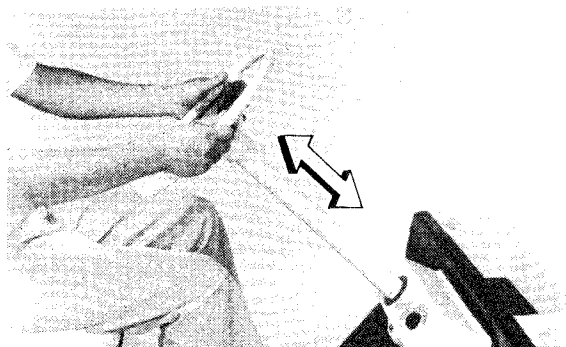
DAILY CHECK (Procedure)

NOTE:

Before checking, turn the main switch to the OFF position.



a. Check the steering mechanism free play.



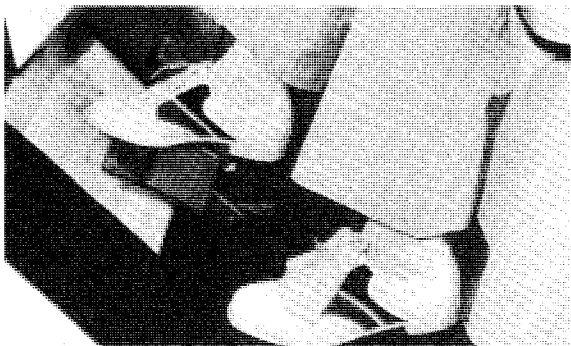
b. Check the steering mechanism movement.



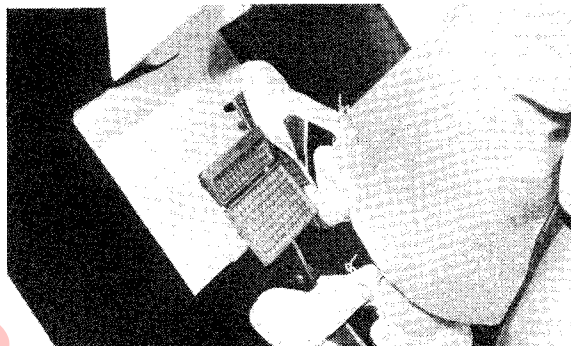
c. Check brake pedal movement.



d. Check parking brake operation.



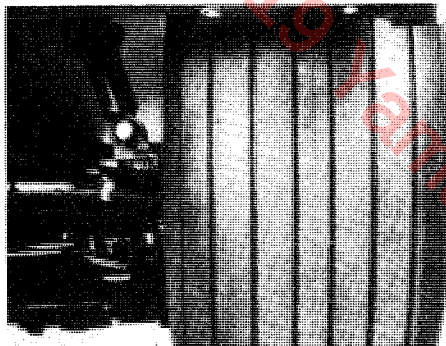
e. Check accelerator pedal operation.



f. Check a back-up buzzer beep at the "REVERSE" key position.



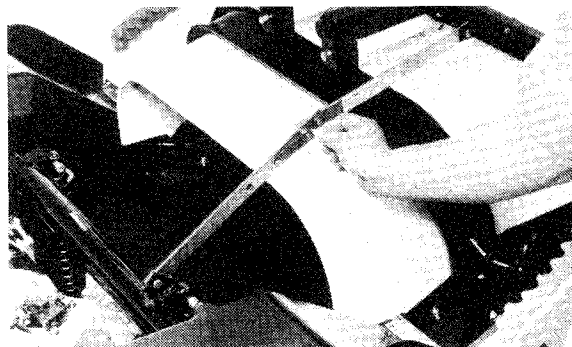
g. Check the tires for cuts or low air pressure.



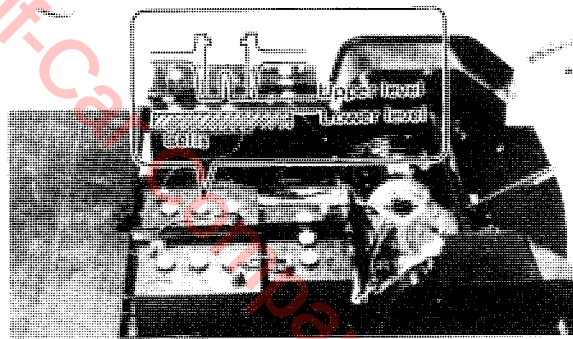
Open the cowl body for the following checks.

NOTE: _____

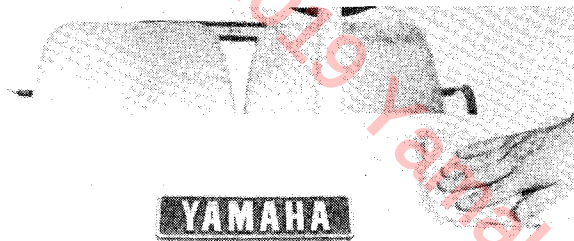
When the cowl body is opened, be sure to insert a safety lock pin into the hole as shown below.



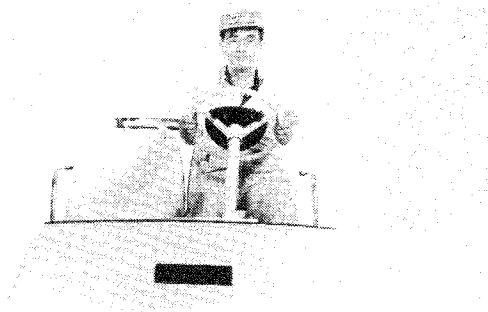
h. Check the only one fluid level of batteries.



- i. Clean the seats and cowl if they're dirty.



- j. Check the feel of the car while driving to the line.



2) Monthly maintenance check list

1. Check and adjust the tire pressure.
2. Check for any tire damage.
3. Adjust the brake pedal play.
4. Check the operation of all the cables, and lubricate them.
5. Adjust the parking brake.
6. Check the battery connections and fluid level.
7. Clean the battery and its connections.
8. Check for any loose wires or connections.
9. Wash the car, and wax it if necessary.
10. Check the electrolyte specific gravity.

Record the date, and initial when all the above operations are completed.

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3) Six months and yearly maintenance check list

SIX MONTHS

1. Check the transmission oil level.
2. Check the steering gear oil level.
3. Wax the car.

YEARLY

1. Lubricate all the cables.
2. Tighten all the bolts, nuts, and screws.
3. Adjust the steering gear.
4. Adjust the steering alignment.
5. Check the moving arm and contacts.

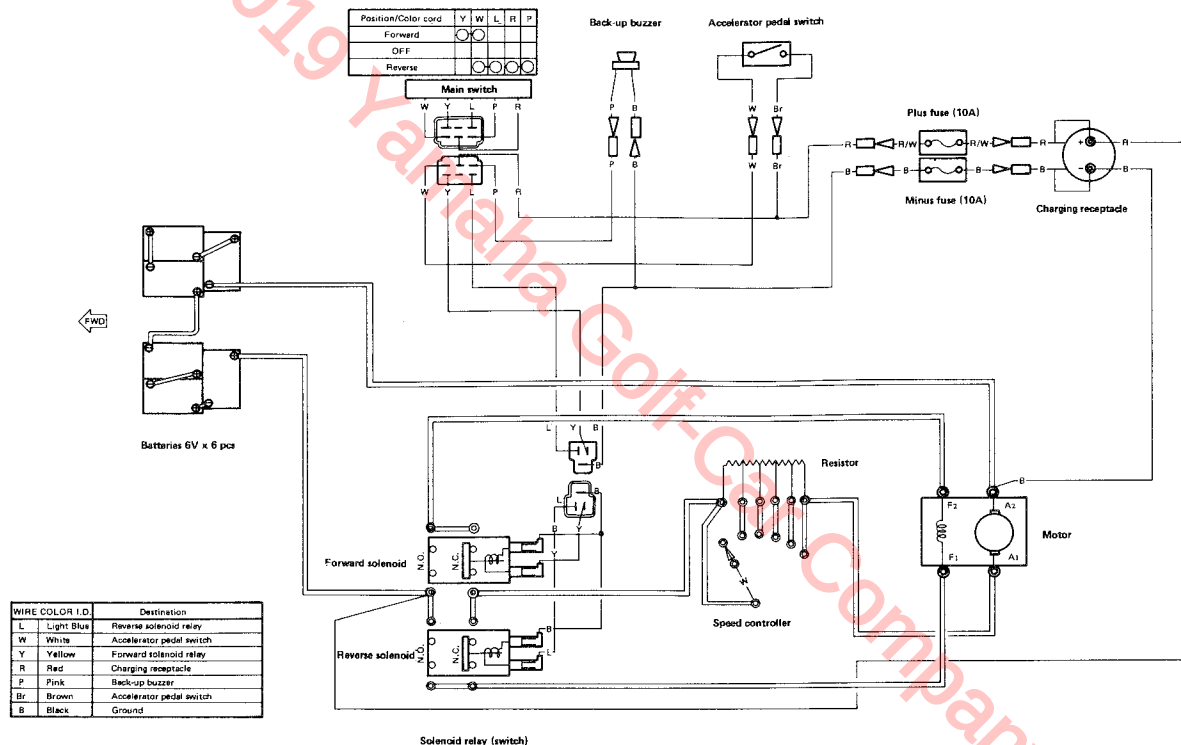
Record the date in a box, and initial the adjacent area when the service is completed. Keep this sheet as a permanent record.

1		2		3		4	
6 MONTHS DATE:	YEARLY DATE:	6 MONTHS DATE:	YEARLY DATE:	6 MONTHS DATE:	YEARLY DATE:	6 MONTHS DATE:	YEARLY DATE:
INITIALS	INITIALS	INITIALS	INITIALS	INITIALS	INITIALS	INITIALS	INITIALS

13. SPECIFICATION

ITEMS	DESCRIPTION
Motor	36 volt, DC series wound, 2.7 HP 2,600 r/min.
Drive/Transmission	Double reduction helical gear 13.55 : 1, Direct drive motor/axle
Electric system	Six, 6 volts storage batteries (36 volt)
Overall length	94.6 in (2,403 mm)
Overall width	44.9 in (1,140 mm)
Overall height	46.5 in (1,180 mm)
Wheelbase	61.0 in (1,550 mm)
Height of floor	11.6 in (295 mm)
Height of seat from floor	16.9 in (428 mm)
Brakes	Mechanical brake linkage to individual drum brakes on each rear wheel with self-adjusting brake shoe. Parking brake with automatic release.
Front suspension	Independent front wheel suspension. Coil springs with hydraulic shock absorbers.
Rear suspension	Coil springs with hydraulic shock absorbers.
Body	Front cowl; Urethane, Rear cowl; All-weather FRP fiberglass
Frame	Tubular steel
Tire type	18 x 8.50 – 8.00 Tubeless – 4 ply rating
Tire pressure	14 psi (1.0 kg/cm ²)
Turning radius	9 feet 10 in (3.0 m)
Maximum speed	12 mph (19.3 km/h)

14. CIRCUIT DIAGRAM



WARRANTY INFORMATION

Please refer to your copy of the Yamaha Warranty Certificate for details of the warranty offered on your new Yamaha.

Becoming familiar with these policies will be to your advantage in making the best use of Yamaha's warranty program.

The Yamaha Golf Car is designed and manufactured in accordance with very strict standards of quality. Your servicing dealer completely services and checks each new Yamaha Golf Car as certified by your copy of the Dealer Assembly and Pre-Delivery Check List.

There are certain requirements which you must meet in order to qualify for warranty coverage. FIRST, your new Yamaha must be operated and maintained properly, as, explained in this manual. If you have any questions about any procedure in this manual, please consult your dealer. ABUSE AND NEGLECTED MAINTENANCE MAY LEAD TO MECHANICAL FAILURES WHICH WILL NOT BE COVERED UNDER WARRANTY.

SECOND, IF ANY PROBLEMS OCCUR WHICH YOU FEEL SHOULD BE COVERED UNDER WARRANTY, NOTIFY YOUR DEALER IMMEDIATELY. Don't delay, as small problems left unrepaired can become large problems which may not be covered under warranty. To assure proper warranty registration of your golf car(s), be sure that the Dealer Assembly and Pre-Delivery Check List is completed and that you have been given your copy.

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