

YAMAHA

**OWNER'S/
OPERATOR'S
MANUAL**

GOLF CAR

G3A

LIT-11626-04-92

J42-28199-10

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G3-A OWNER'S MANUAL

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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.

SAFETY WARNINGS

FAILURE TO OBEY THESE SAFETY WARNINGS MAY RESULT IN INJURY TO YOU AND/OR OTHERS.

Before operating the vehicle:

- Read the Owner's Manual carefully and understand the controls.
- Make pre-operation checks.
- Be sure all occupants are seated.
- Be sure the operator is authorized to operate the vehicle.
- Be sure the vehicle has no more than two persons aboard.
- Know where the designated driving areas are.
- Be sure the vehicle has not been modified; unwarranted modifications can render the car unsafe and could cause injury.
- Do not depress the accelerator pedal until the main switch has been turned on.

While operating the vehicle:

- Be sure all occupants remain seated.
- Keep arms, legs, and feet inside the vehicle.
- On an incline, drive up and down the incline in a vertical manner slowly — never at an angle.
- Slow down when turning.
- Avoid sharp, quick turns.
- Vary the speed of the vehicle to match the terrain.
- In reverse, drive slowly and watch where you are going.
- Do not exceed the factory speed setting of 12mph under any circumstances.

Before leaving the vehicle:

- Turn the key to the "OFF" position and remove it.
- Always set the parking break by firmly depressing the top of the brake pedal.
- Lock the wheels if parking on an incline; accidental movement of the accelerator pedal may cause the vehicle to roll down the incline.

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 ever 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 golf car dealer.

TECHNICAL PUBLICATIONS
SERVICE DIVISION
MOTORCYCLE OPERATIONS
YAMAHA MOTOR CO., LTD.

— MEMO —

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LOCATION OF THE “WARNING, CAUTION AND SPECIFICATION LABELS”



①

FOR YOUR SAFETY

- ALWAYS SET PARKING BRAKE BEFORE LEAVING CAR.
- DO NOT START THE CAR UNTIL ALL OCCUPANTS ARE SEATED.
- REMAIN SEATED WHEN THE CAR IS IN MOTION.
- DRIVE SLOWLY STRAIGHT UP AND DOWN SLOPES.
- AVOID SHARP, QUICK TURNS.
- KEEP ARMS, LEGS, AND FEET INSIDE THE CAR.
- ONLY THE DRIVER AND ONE PASSENGER ARE ALLOWED.
- OPERATE BY AUTHORIZED PERSONS ONLY AND ONLY IN DESIGNATED AREAS. NO CHILDREN ARE TO OPERATE.

②

(Steering wheel)

WARNING

- OPERATE BY AUTHORIZED PERSONS ONLY AND ONLY IN DESIGNATED AREAS. NO CHILDREN ARE TO OPERATE.
- ONLY THE DRIVER AND ONE PASSENGER ARE ALLOWED.
- THIS VEHICLE WAS NOT MANUFACTURED FOR USE ON PUBLIC STREETS AND DOES NOT COMPLY WITH FEDERAL MOTOR VEHICLE SAFETY STANDARDS APPLICABLE TO PASSENGER CARS.
- DO NOT EXCEED THE FACTORY SPEED SETTING OF 12MPH UNDER ANY CIRCUMSTANCES.

OPERATING INSTRUCTION

- BE SURE OCCUPANTS ARE SEATED. SELECT FORWARD OR REVERSE SWITCH POSITION BEFORE STARTING THIS VEHICLE.
- THIS VEHICLE STARTS AUTOMATICALLY WHEN ACCELERATOR PEDAL IS DEPRESSED. RELEASE THE PEDAL AND APPLY BRAKE TO STOP.
- ALWAYS SET THE PARKING BRAKE BY FIRMLY DEPRESSING THE TOP OF BRAKE PEDAL AND REMOVE KEY BEFORE LEAVING THIS VEHICLE. BRAKE WILL AUTOMATICALLY RELEASE WHEN ACCELERATOR PEDAL IS DEPRESSED.
- BRING THIS VEHICLE TO A COMPLETE STOP BEFORE REVERSING DIRECTION.

③

(Fuel lid)

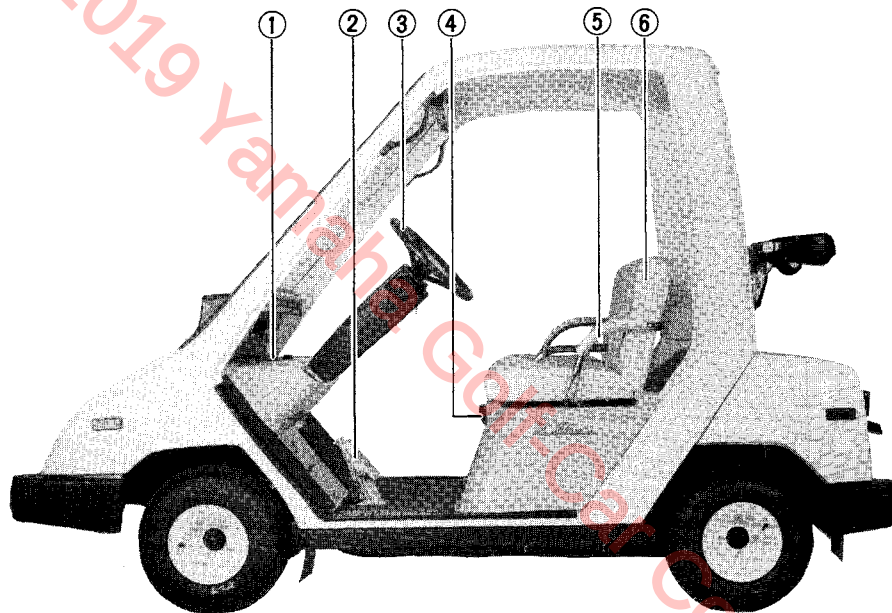
NOTICE

USE STRAIGHT GASOLINE ONLY
THIS CAR IS EQUIPPED WITH AUTOLUBE OIL INJECTION SYSTEM
DO NOT USE A GASOLINE OIL MIX
FILL WITH YAMAHA GOLF CAR OIL

* (A B1A, TC-W TYPE OIL CAN BE USED IF YAMAHA GOLF CAR OIL IS NOT AVAILABLE.)

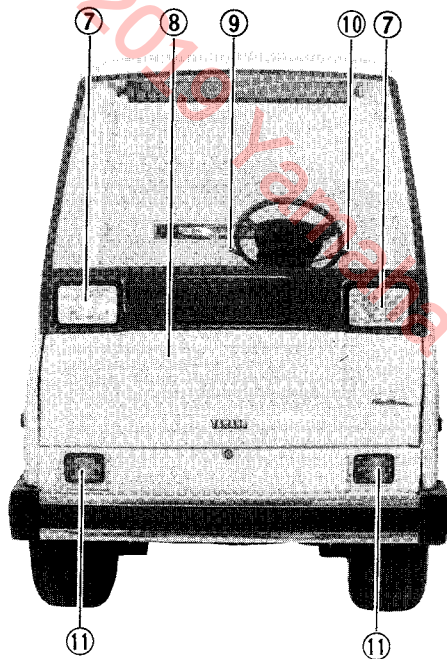
* CHECK OIL TANK LEVEL PERIODICALLY.

DESCRIPTION



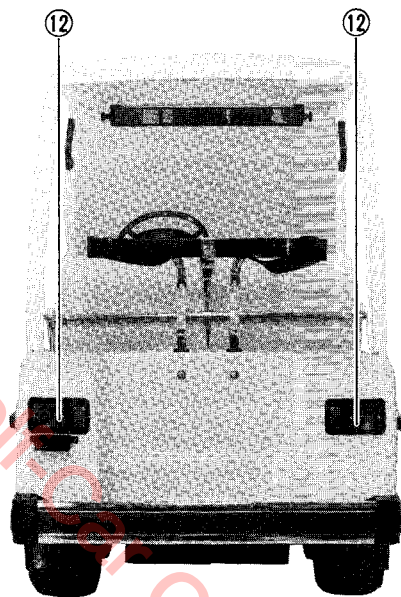
NOTE:

The golf car that you have purchased may differ partly in design and specifications from that shown in this photo.



1. Glove box
2. Parking brake pedal
3. Steering wheel
4. Ashtray

5. Arm rest
6. Seat
7. Headlight
8. Front trunk

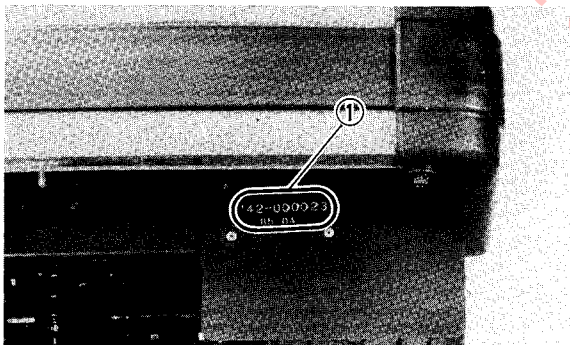


9. Horn switch lever
10. Combination switch lever
11. Marker light
12. Tail/brake light

CAR IDENTIFICATION

Frame serial number

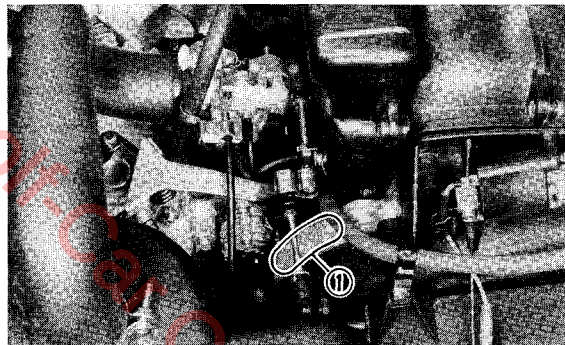
The frame serial number is located on the right-hand side of the rectangular pipe by the rear bumper. The first three digits identify the model. This is followed by a dash. The remaining digits identify the production number of the unit.



1. Frame serial number

Engine serial number

The engine serial number is located on the right-hand side of the crankcase cover. The prefix indicates engine type and displacement. The prefix is followed by a dash and the serial number. Normally both frame and engine serial numbers are identical.

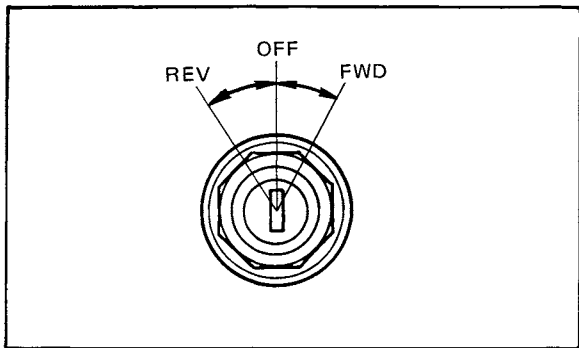


1. Engine serial number

MAIN PARTS FOR OPERATION

Main switch

The main switch has three positions: Forward, Reverse, and Off. Turn to the right for the "FWD" position. Turn to the left for the "REV" position and the back-up buzzer beeps for warning. Whenever the key is in the "OFF" position, the engine cannot be started and the key can be removed.



Accelerator pedal

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

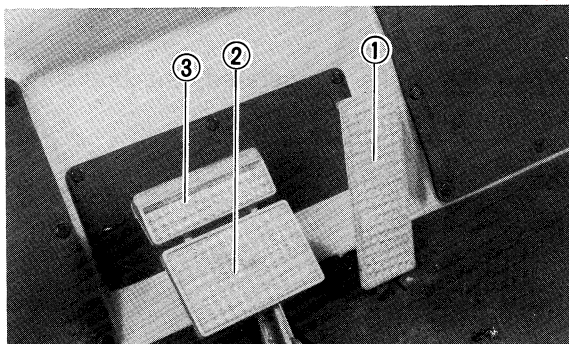
Brake pedal

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

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 releases the parking brake.

When the parking brake is operated, the brake light will illuminate.



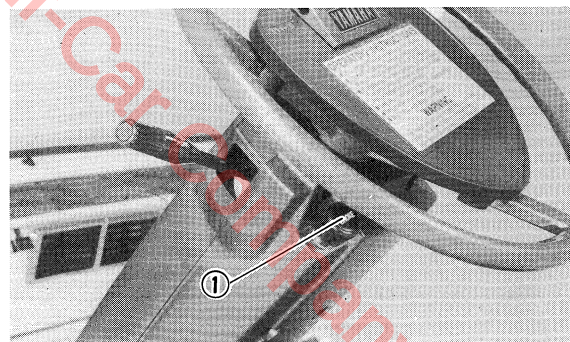
- 1. Accelerator pedal
- 2. Brake pedal
- 3. Parking brake

NOTE: _____

Turn the main switch to "FWD" or "REV". In this state the brake light will go off automatically in about 30 seconds when the brake pedal is even applied or when the parking brake is used.

Choke knob

Use the choke knob when starting a cold engine. Pull out the choke knob and hold it in position until the engine responds correctly. Release the choke knob as the engine warms up.



- 1. Choke knob

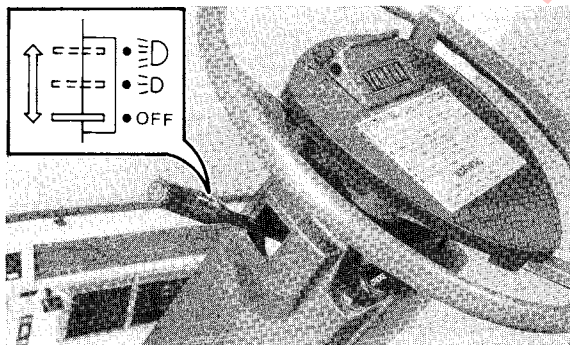
Combination headlight, dimmer, and turn switch

Light switch:

To turn the lights on, twist the knob on the lever end.

Twist the knob to " $\equiv D$ ", to turn on the marker, license, and tail lights.

Twist the knob to " $\equiv D$ ", to turn on the head, marker, license, and taillights.



Light (dimmer) switch:

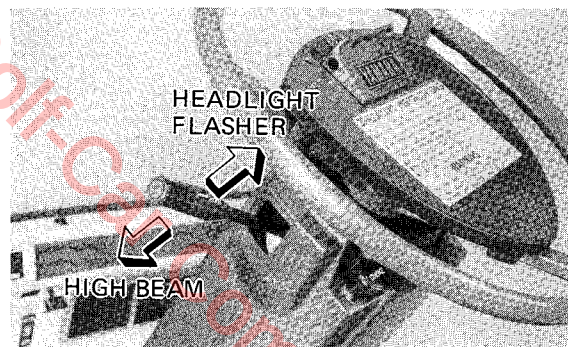
For the high beam, push down the lever.

Pull it back for the low beam.

For the headlight flasher, pull it further back.

NOTE: _____

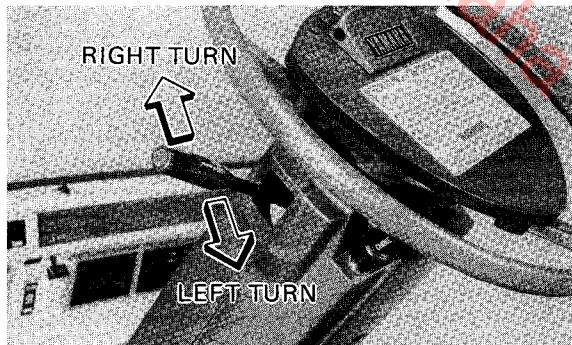
The headlight flasher works whether the headlight switch is on or off.



Turn signal switch:

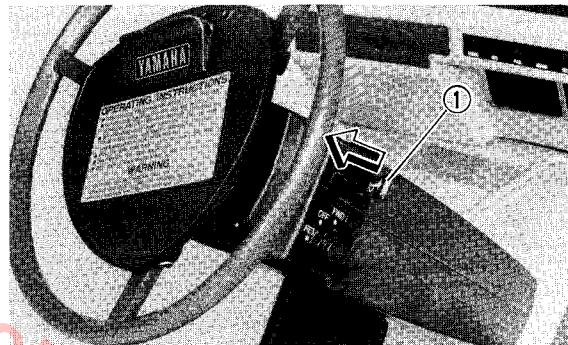
To signal a right or left-hand turn, push the lever as shown.

To cancel the signal, return the lever to the original position. Or returning the steering wheel to the "straight" position allows the self-cancelling device to cancel the signal.



Horn switch

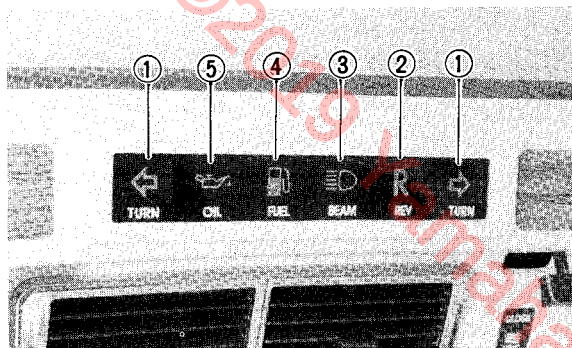
Pull the lever to sound the horn.



1. Horn switch lever

Indicator lights

- "TURN" indicator light (orange)
This indicator flashes when the turn switch is "ON".
- "BEAM" indicator light (blue)
This indicator comes on when the headlight high beam is "ON".



1. "TURN" indicator light
2. "REV" indicator light
3. "BEAM" indicator light
4. "FUEL" indicator light
5. "OIL" indicator light

- "REV" indicator light (red)

This indicator light comes on when the main switch is "REV" position.

- "OIL" and "FUEL" indicator light (red)

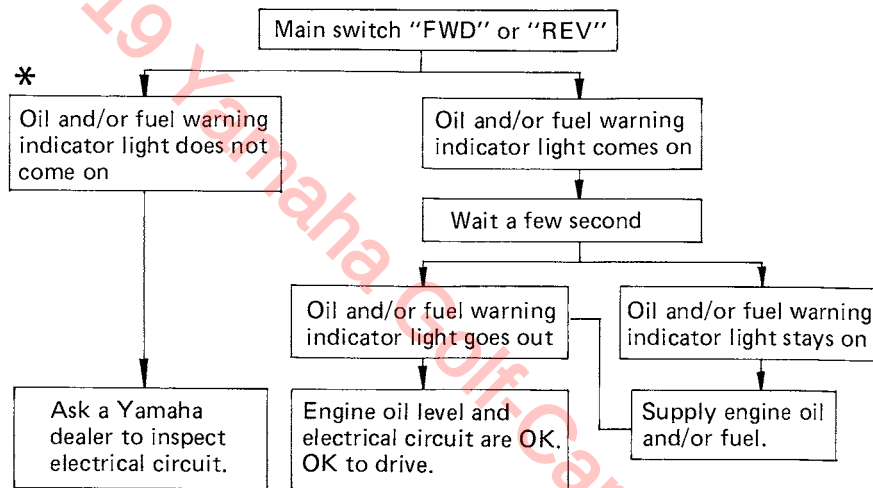
This indicator comes on when the oil or fuel level is low.

The circuit of this light can be checked by the following procedure.

CAUTION:

Do not run the golf car until you know the golf car has enough engine oil and/or fuel.

Oil and fuel warning light checking method



*

NOTE: _____

If the main switch is turned off after the oil and/or fuel warning light goes out and then the main switch is immediately turned on again, the oil and/or fuel warning light may not come on. This is not because of failure.

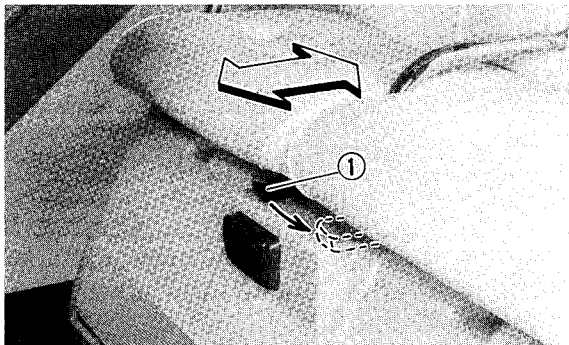
Seat adjustment

Slide the seat lock lever as shown. Move the seat to the desired position with slight body pressure and release the lever.

After releasing the seat lock lever, slide the seat forward and backward to make sure it is locked in position.

WARNING:

This adjustment should not be made while the golf car is moving.

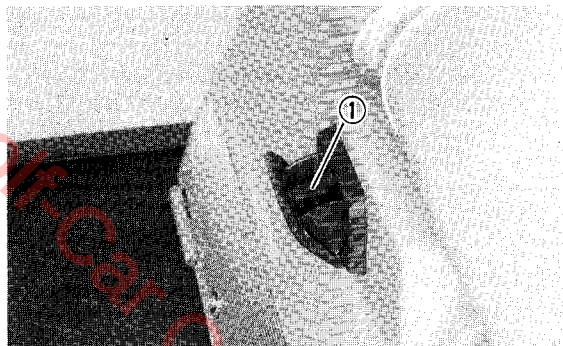


1. Seat lock lever

Ashtray

After using the ashtray, push it in completely. Otherwise the heat of a cigarette may cause other cigarette butts to burn, resulting in a fire.

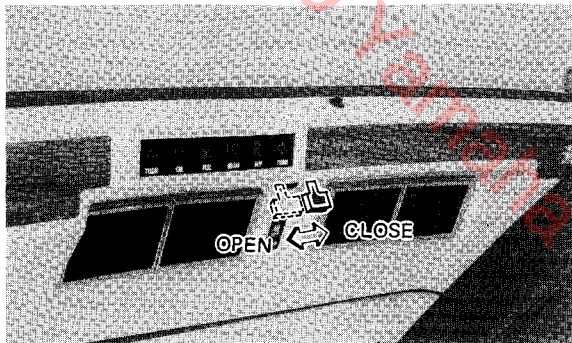
To remove the ashtray, press down on the protector and pull it out.



1. Protector

Air ducts

The air ducts may be opened or closed as shown.



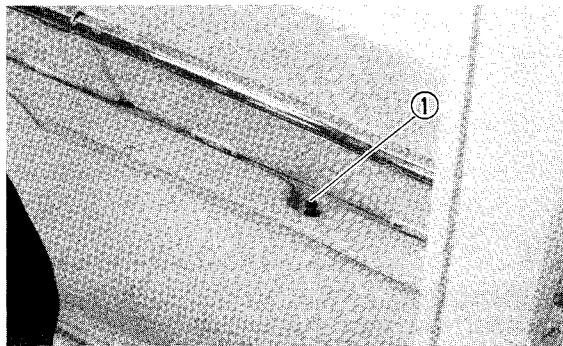
Seat

NOTE:

To open the seat, slide it all the way backward. If not, the seat and steering wheel may contact each other.

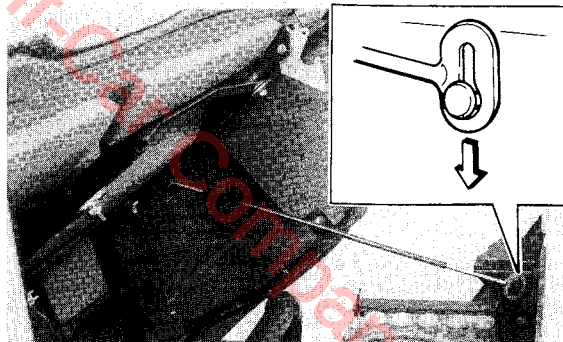
To open the seat:

Push the knob and slowly open the seat forward.



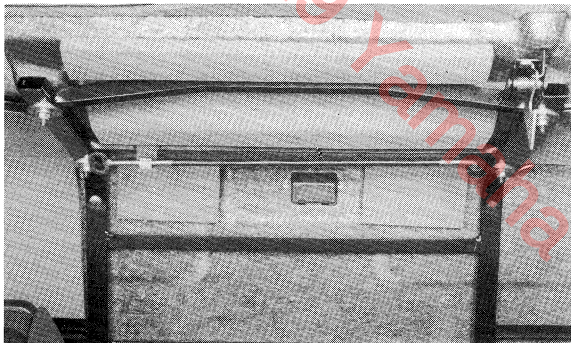
1. Knob

Set the seat stopper end as shown.



To close the seat:

Pull out the seat stopper end and reset to the original position.



Close the seat slowly.

Glove box

WARNING:

Before driving the golf car, make sure the lid is locked.

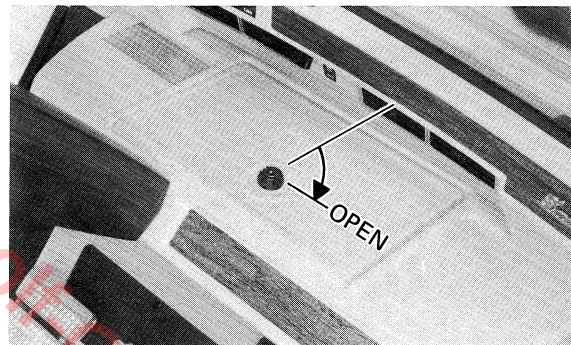
To open:

- Insert the key in the lock and turn it 1/4 turn clockwise.

- Rotate the knob 1/4 turn clockwise.

To lock:

- Push down on the lid and insert the key and turn it 1/4 turn counterclockwise.



Front trunk

WARNING:

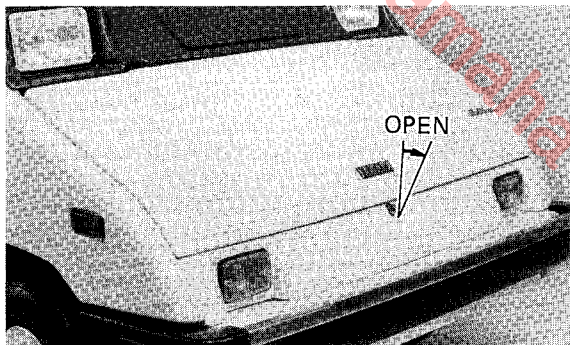
Before driving the golf car, make sure the lid is locked.

To open:

- Insert the key in the lock and turn it 1/8 turn clockwise.

To lock:

- Push down on the lid.



OPERATION INSTRUCTIONS

1) Driving

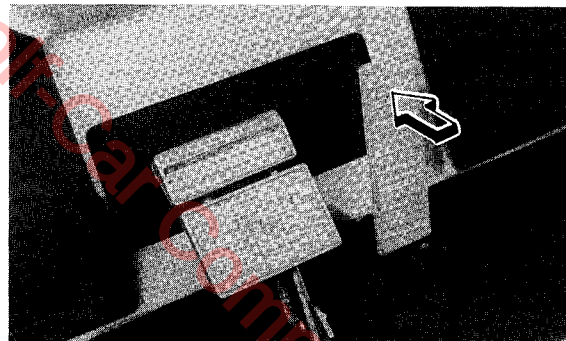
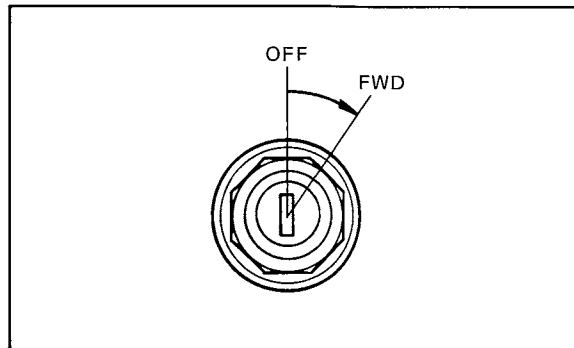
a. Forward

Turn the main switch to "FWD".

Slowly depress the accelerator pedal. The car will start to move off. Do not depress the accelerator pedal too sharply.

WARNING:

- 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 at high speed, an accident may result.



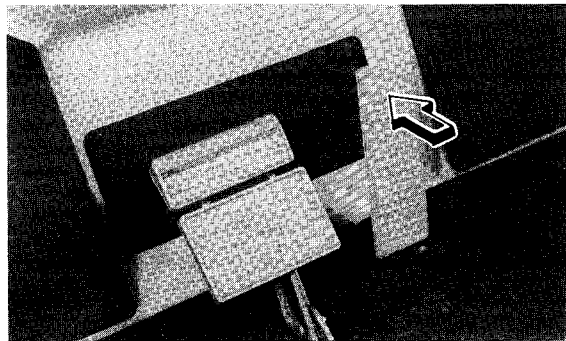
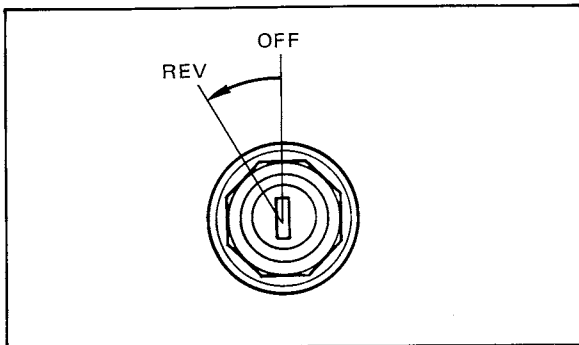
b. Reverse

Turn the main switch to "REV".

When the main switch is turned to reverse, "REV" indicator comes on and the back-up buzzer will sound. Slowly depress the accelerator pedal and the engine will start.

CAUTION:

Bring the car to a complete stop before changing directions.

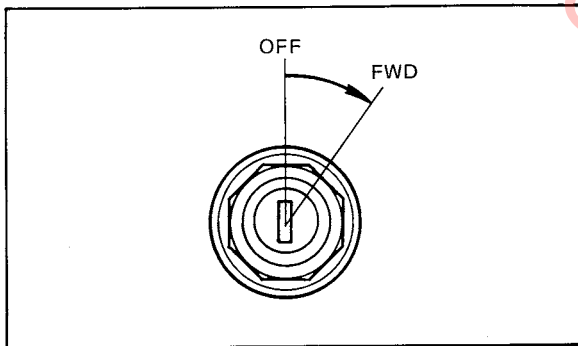
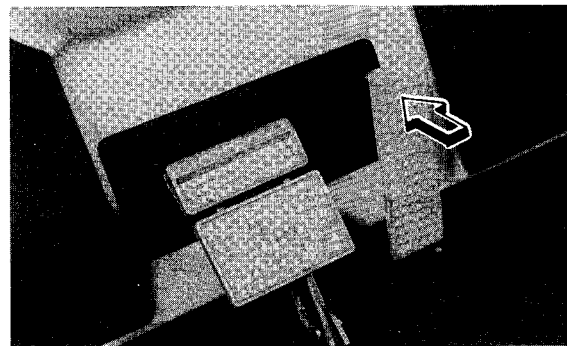


c. Starting on an upward slope

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.

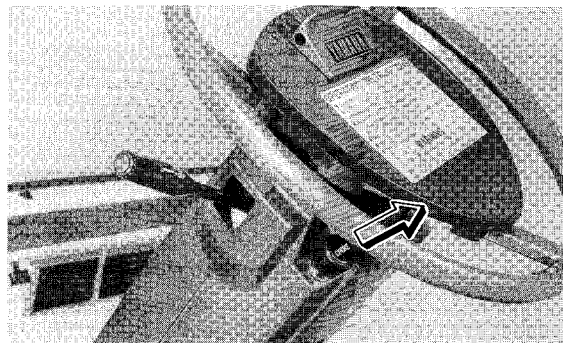
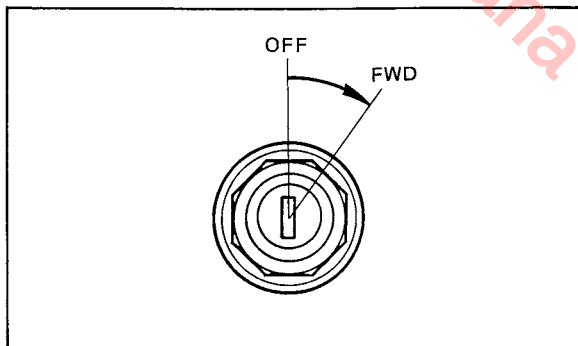


d. Choke

To start a cold engine, pull out the choke knob and hold it in position. Slowly depress the accelerator pedal. The car will start to move off. Push back the choke knob lightly to "OFF" position by the finger when the engine begins to respond correctly.

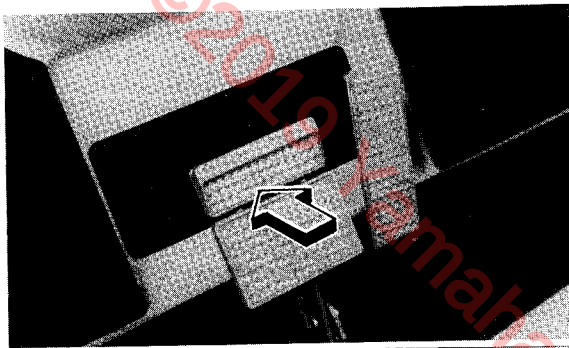
CAUTION:

Holding the choke knob for longer than necessary may result in a wet spark plug and consequent engine stoppage. Normally, the choke should be released after about one minute.

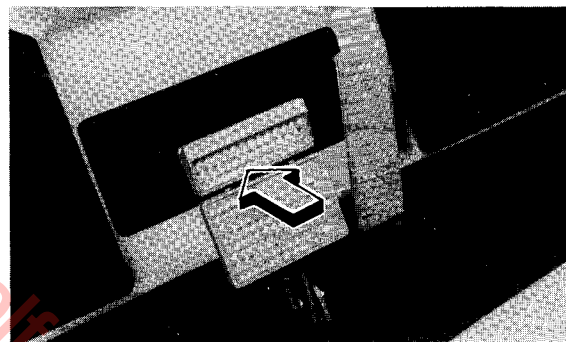


2) Stopping

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



ON. Accidental movement of the accelerator pedal may cause the car to coast down an incline.



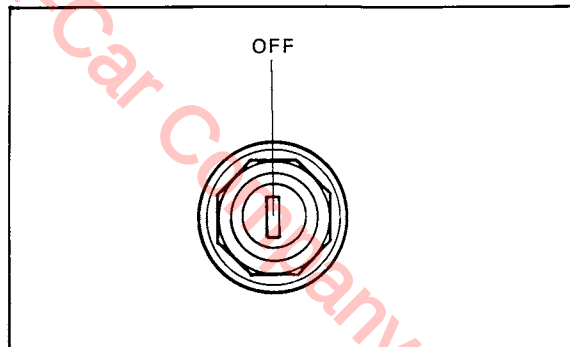
3) Parking

a. Parking

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

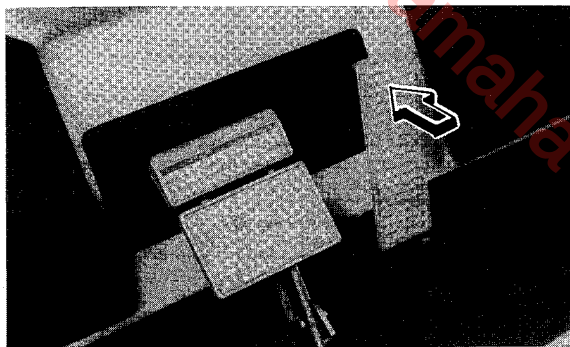
WARNING:

- Park the car on a level surface as much as possible.
- Do not leave car unattended unless the main switch is in the "OFF" position or key is removed and the parking brake is



b. Parking brake release

To release the parking brake, depress the accelerator slightly. If you do not want the engine to start, be sure that the main switch is set to the off position.



PRE-OPERATION CHECKS

Before using this golf car, check the following points.

Procedure	Item	Check point	Refer to page	
1	Fuel tank	Fuel level		29
2	Oil tank	Oil level		30
3	Battery	Fluid level		31
4	Wheel	Tire pressure Cracks, damage, or hard objects embedded in tires		32
5	Steering wheel	Tightness, excess play Handling (Shaking, pulling to one side, stiffness)		72
6	Back-up buzzer	Back-up warning alarm at "reverse" key position	6	73
7	Choke	Operation of choke wire	18	73
8	Brake pedal	Play	6	33
		Braking efficiency	19	72
9	Parking brake	Braking efficiency and releasing timing	7	72
10	Accelerator pedal	Easy operation and return	6	73
11	Lights/Signals	Operation	8	

Procedure	Item	Check point	Refer to page
12	Miscellaneous	Installation of golf bag securing device. Any irregularities noticed during operation on the day before	75

NOTE:

Pre-operation checks should be made each time the machine is used. Such an inspection can be thoroughly accomplished in a very short time; and the added safety it assures is more than worth the time involved.

PERIODIC MAINTENANCE AND MINOR REPAIR

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

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

1) Daily check

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 insure that any problem receives proper attention is to ask that the owner or whoever is responsi-

ble for moving the cars is 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.

WARNING:

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

PERIODIC MAINTENANCE TABLE

Item	Remarks	Every				Replace [year(s)]	Page
		Preoper- ation	month	year	others		
Engine	Check tightness of cylinder head.				4 years		
	Check condition of air filter foam cover. Wash it with solvent and allow it to dry.				6 month	every 1	35~39
	Check condition of air filter element ass'y. Replace element.				6 month	every 1	35~39
	Check condition of exhaust system and exhaust color.		○	○			
	Check spark plug for condition of electrodes. Plug gap: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in)					every 1	50~51
	Adjustment: Engine bracket tensioner. [Free play: 0.5 mm (0.02 in)]			○			49
	Check ignition timing.			○			
Fuel system	Adjustment: Throttle cable [Free play: 0.5 mm (0.02 in)]			○			40~46
	Adjustment: Choke cable [Free play: 1 mm (0.04 in)]			○			48
	Check operation of cables.	○		○			
	Check carburetor for dirt, or water.				2 years		
	Check fuel lines for fuel leakage. Replace fuel hose.	○		○		every 4	
	Check fuel filter for clogging. Replace filter.			○		every 4	
	Check fuel level.	○					29

Item	Remarks	Every				Replace [year(s)]	Page
		Preoper- ation	month	year	others		
Lubrication system	Check engine oil level.	○					30
	Check oil lines for damage, or oil leakage.	○		○			
	Check jet sensor hose for damage. Replace hose.				6 month	every 2	
Primary and secondary shafts	Check drive belt for slippage, wear, or scratches.			○			
	Grease primary shaft. Grease amount: 2 ~ 3 shots (manual grease gun), 2 ~ 3 seconds (automatic grease gun) Grease type: Molybdenum disulfide grease			○			
	Check for operation and wear of sliding shaft.			○			
	Check for wear of ramp shoes on secondary spring seat. Wear limit: 1.0 mm (0.04 in)			○			
Trans- mission case	Check for operation and installation of speed limiter.			○			40
	Check gearbox oil level and leakage.			○			
	Replace gearbox oil. Oil amount: 800 cc (0.70 Imp qt, 0.85 US qt) Oil type: SAE 90 gear oil					every 4	
Brakes	Check operation and adjust if necessary.	○	○				33 ~ 35
	Adjustment: Brake wire end play [0.1 ~ 0.5 mm (0.004 ~ 0.02 in)]	○		○			33 ~ 35
	Check for wear or damage parking brake ratchet and stopper.				2 years		
	Check shoe lining thickness. Wear limit: 1.5 mm (0.06 in)			○			

Item	Remarks	Every				Replace [year(s)]	Page
		Preoper- ation	month	year	others		
Brakes	Check drum inside diameter. Wear limit: 161 mm (6.30 in)			○			
Steering	Check operation and adjust if necessary.	○	○				
	Check gear box for oil leakage. Oil amount: 150 cc (0.13 Imp qt, 0.16 US qt) Oil type: SAE 90 gear oil				4 years		
	Adjustment: Wheel alignment [Toe-in: Unloaded 15 ± 5 mm (0.59 $\pm$ 0.20 in), Fully loaded 0 mm (0 in)]			○			
	Check kingpin play.			○			
	Check seal, cap of kingpin for damage.			○			
	Lubricate kingpin.			○			
Wheel	Check tire pressure and correct if necessary. Front and rear: 78 kPa (0.8 kg/cm ² , 11 psi)	○	○				32 ~ 33
	Check tire groove depth or far damage. Wear limit: 1.0 mm (0.04 in)			○			32 ~ 33
	Check tire surface for damage, cracks, or hard objects limbeded.	○		○			
	Check tightness of wheel nut.			○			
	Check wheel rims for damage.			○			
	Check front wheel bearings for play.			○			
	Check rear axle bearings for play.			○			
	Check rear axle for cracks, or bending.			○			

Item	Remarks	Every				Replace [year(s)]	Page
		Preoper- ation	month	year	others		
Body & Chassis	Check body and chassis for damage.						
	Check tightness of all bolts, nuts and screws.			○			
	Check shock absorber for oil leakage.			○			
	Check coil spring for cracks, or damage.			○			
Starter	Check starter V-belt for damage, tension, and tightness.			○			54 ~ 55
	Check brushes for wear. Wear limit: 16 mm (0.63 in)				2 years		
	Check commutator for dirt.				2 years		
Battery	Check electrolyte level.	○	○				74
	Check specific gravity of electrolyte.			○			
Accelerator stop switch	Check operation, and adjust if necessary.			○			
Back-up buzzer	Check operation.	○					
NOTE: Keep high pressure water away from all electric parts; solenoid and connector.							

NOTE: _____

Be sure to perform periodic inspection for safe operation.

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) Refueling

Check the fuel level gauge as often as necessary according to your usage of the golf car and fill the fuel tank if necessary.

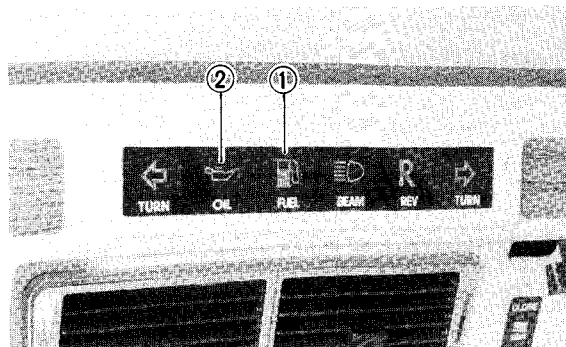
Fuel tank capacity:

24.5 L (5.4 Imp gal, 6.5 US gal)

Recommended fuel:

Regular or low lead gasoline

(Premium grade is acceptable)



1. "FUEL" indicator light

2. "OIL" indicator light

NOTE:

Do not mix oil with the gasoline. This is unnecessary with the Yamaha Automatic oil injection system.

2) Check oil

Oil tank capacity:

1.7 L (1.5 Imp qt, 1.8 US qt)

Recommended oil:

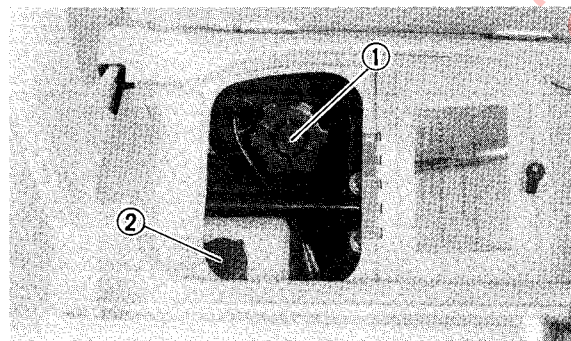
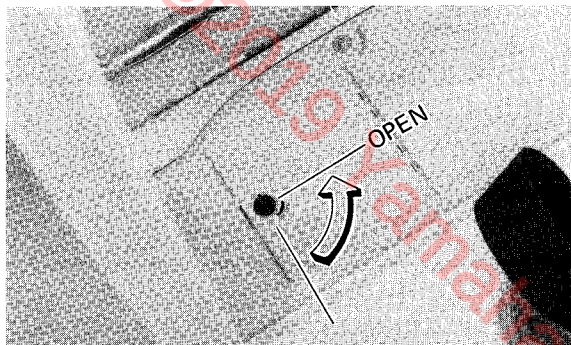
YAMALUBE 2-cycle oil

(YAMALUBE Golf car oil for U.S.A.)

Check the oil by glancing at the oil tank whenever gasoline is added. Fill the tank if necessary. Consumption will vary depending on driving conditions, a full tank should last for almost 200 ~ 300 rounds.

NOTE:

The ridge at the lower front of the oil tank marks the "one quart low level". Use YAMA-LUBE Golf car oil for U.S.A. or BIA-TCW approved oils; or high quality 2 cycle oil.



1. Fuel tank cap

2. Oil tank cap

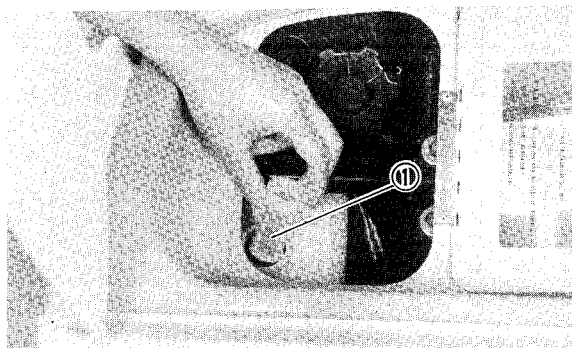
CAUTION:

Don't mix two different types of 2-cycle engine oil, or the mixture may produce a grease deposit and the engine may lack oil.

Be sure to use only one brand of oil.

3) Oil filter

If the oil filter is found dirty or clogged, clean it in solvent or replace it with a new one.

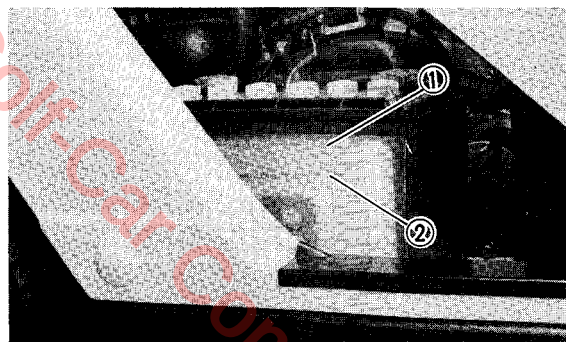


1. Oil filter

4) Battery

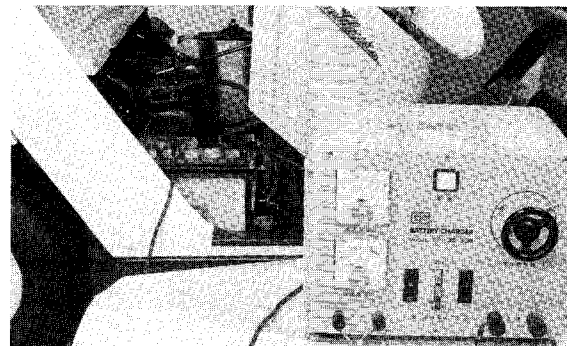
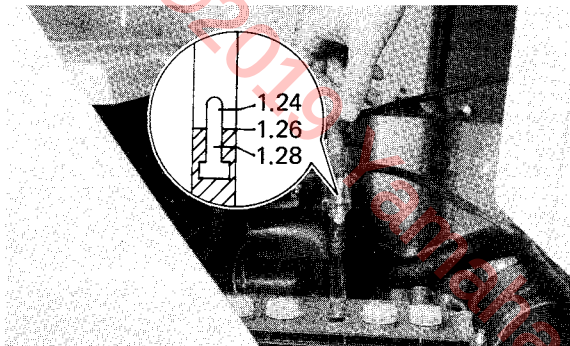
Check electrolyte level periodically and fill the battery with distilled water up to the specified level.

Check the specific gravity of the electrolyte. The reading should be 1.26 at 26.7°C (80°F). If the specific gravity is low, charge the battery. (Refer to page 32)



1. Upper level

2. Lower level



5) Battery charging

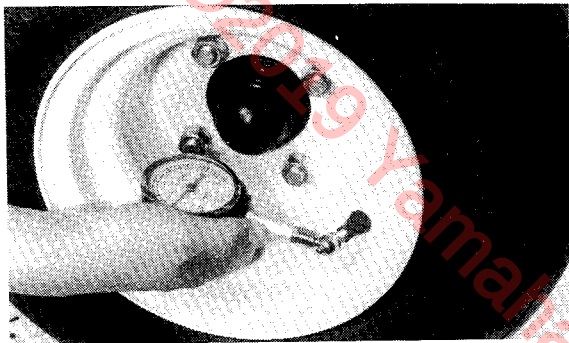
- a. Turn the main switch to the "OFF" position.
- b. Open the body and remove the negative battery cable.
- c. Loose the vent caps to allow the gas to escape.
- d. Connect the charger plug into the battery terminal as shown below.

- e. Set the battery charger at 2.5A (when the battery is a 50-Ah type) and charge it until the specific gravity of the battery fluid is 1.26 at 26.7°C (80°F).

6) Tires

Check tire pressure. Tire pressure should be 78 kPa (0.8 kg/cm², 11 psi) for both front and rear. Check for wear or damage to the tires and replace any tire that is damaged or exceeds wear limit.

Minimum tread depth: 1 mm (0.04 in)



7) Brakes

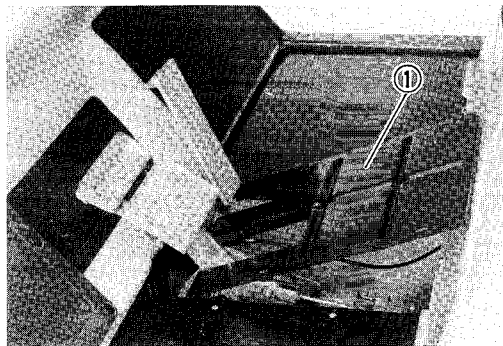
PROCEDURE:

a. Brake shoe adjustment:

Brake shoes are self-adjusting. Before the initial start on a new car, just step down the brake pedal about 10 times to make sure that braking works.

b. Linkage adjustment:

- 1) Remove the floor panel, which is located to the rear of the brake pedal.



1. Floor panel

- 2) Check the brake wire end play as illustrated.

Brake wire end play:

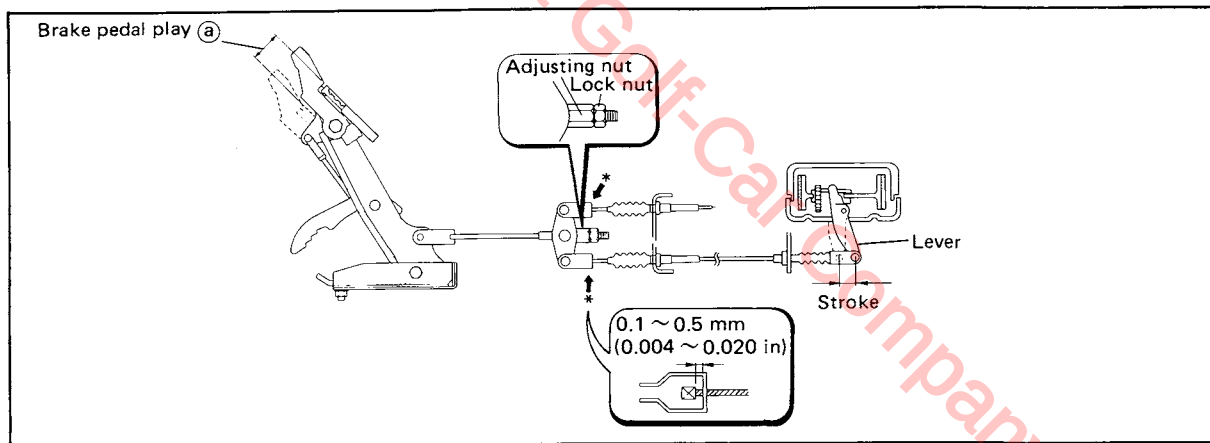
0.1 ~ 0.5 mm (0.004 ~ 0.02 in)

WARNING:

1. To provide the brake shoe self-adjusting lever with an effective stroke, the brake wire end (as illustrated below) must be set just tight enough not to be loose (0.1 ~ 0.5 mm play). If the brake wire end play is too tight, it will not enable the self-adjusting device to work, thereby causing

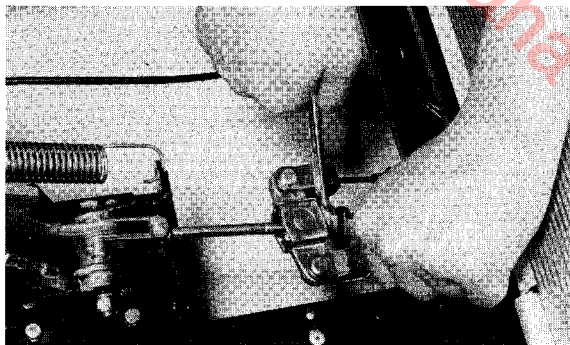
the brake pedal play ① to increase with the resultant braking feel.

2. If the brake wire end play is too loose, it will cause the brake pedal play ① to increase accordingly, also resulting in a bad braking feel.



If necessary, adjust the brake wire end play by turning the adjusting nut and lock it with the Lock nut.

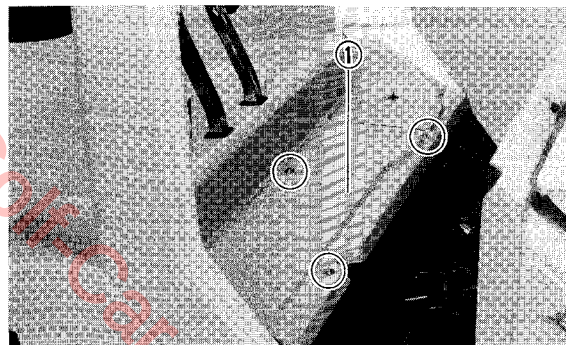
Adjustment (Adjusting nut)	Free play (Brake wire end)
Tightening	Decreasing
Loosening	Increasing



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

8) Air cleaner

The air cleaner element is made of oiled filtering paper which is covered with a polyurethane foam element cover. Open the seat and remove the seat inspection lid.



1. Seat inspection lid

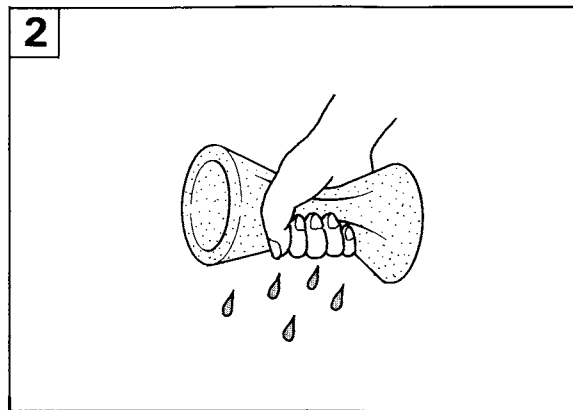
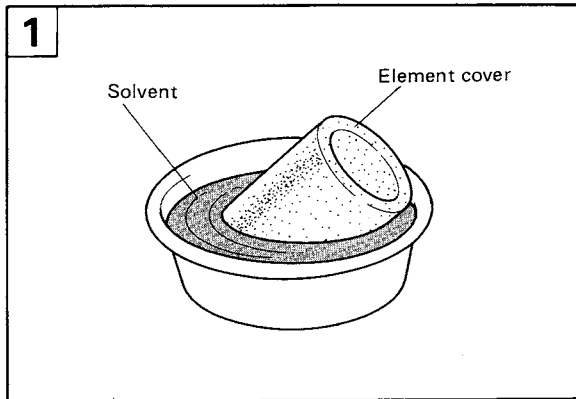
a. Element cover

By frequently washing the element cover, the air cleaner element life can be prolonged.

Thoroughly clean the element cover with solvent. If the element cover is wet with water or oil, wash it with solvent and allow it to dry.

CAUTION:

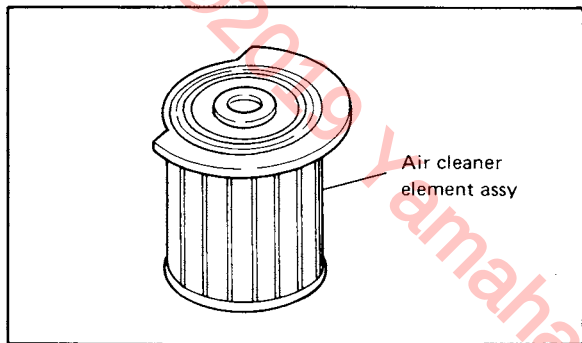
Do not apply oil to the element cover; resistance to air flow will be increased and adversely affect the performance.



b. Air cleaner element assy

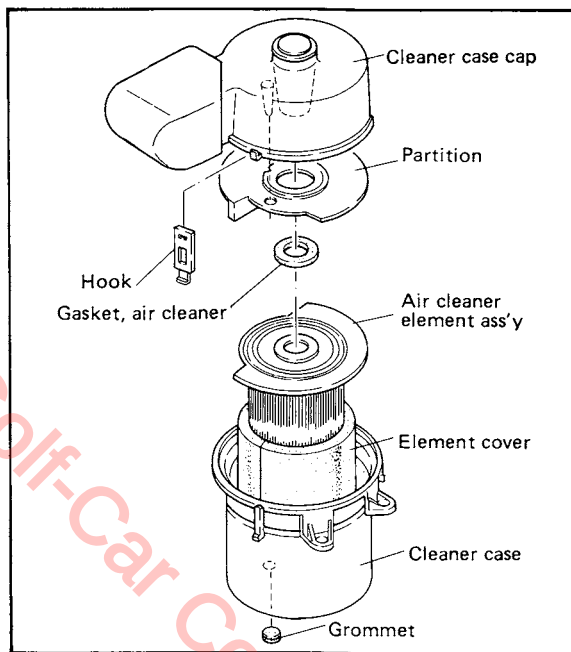
Replace the air cleaner element once a year or as required.

If the car is operated in extra dusty areas, replacement may be required every 6 months.



CAUTION:

Never blow out the air cleaner element with compressed air or wash with solvent. The oil will be removed and the engine will be damaged.



c. Air cleaner case grommet

To remove the sand and grass collecting in the cleaner case, remove the grommet from the case so the opening can be used

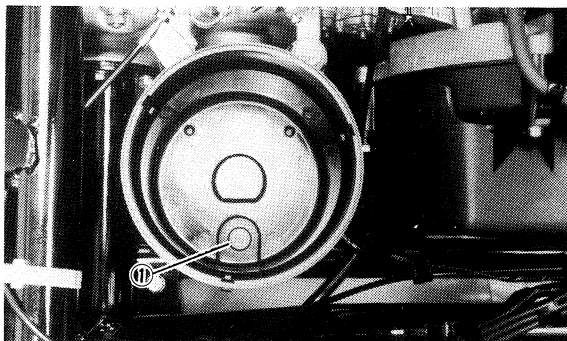
as a drain hole for cleaning.

NOTE: _____

The grommet can easily be removed by pushing it by hand.

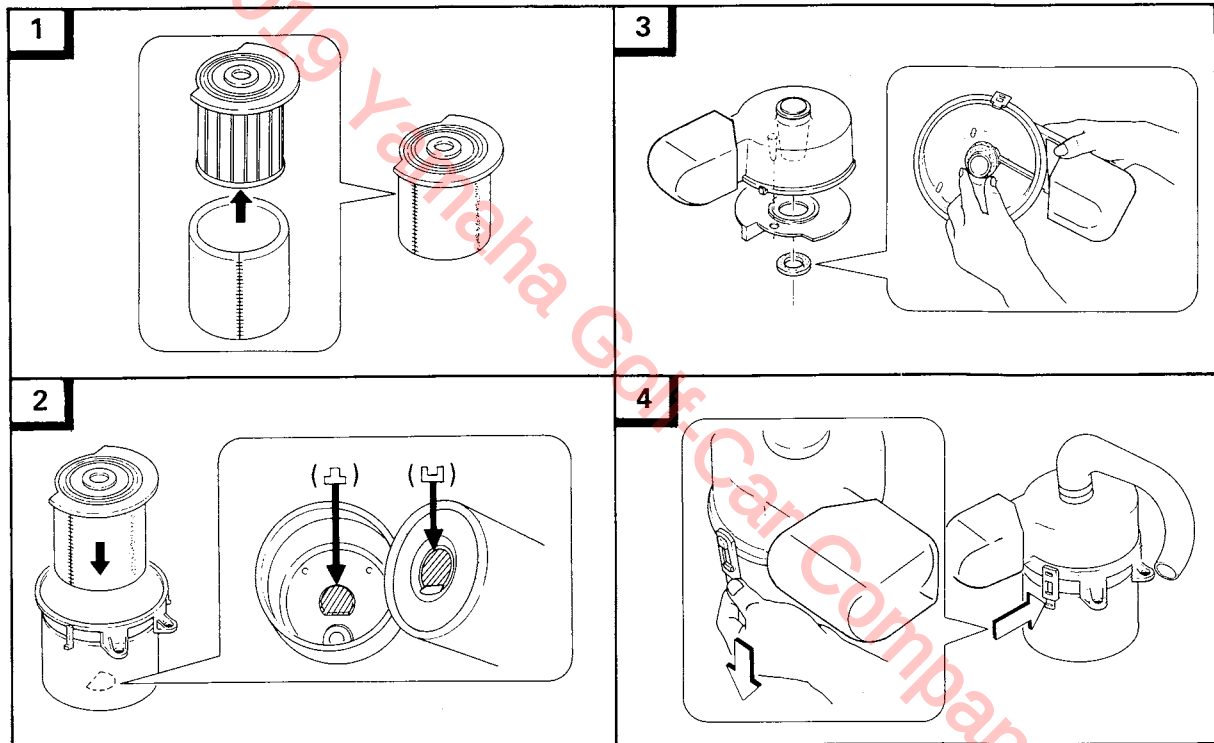
CAUTION: _____

Don't forget installing this grommet; otherwise, resistance to air flow will decrease, thus adversely affecting engine performance.



1. Grommet

How to install the air cleaner element ass'y



9) Governor adjustment

The governor is properly adjusted at the factory, so no adjustment is normally required.

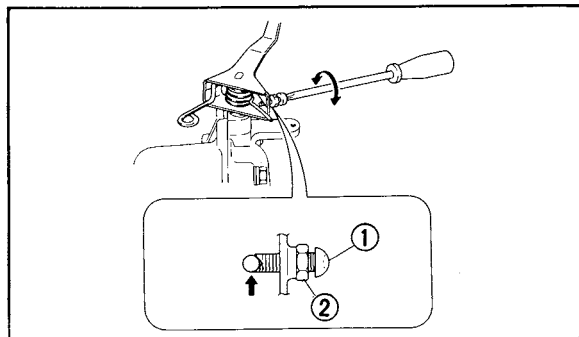
Standard governor setting:

Approx. 3,050 r/min at 19 km/h
(12 mph)

NOTE:

The governor can be adjusted so that the maximum vehicle speed is 16 ~ 22 km/h.

If required, consult your nearby Yamaha dealer.



1. Adjusting screw

2. Lock nut

10) Full throttle wire adjustment

- 1) Make sure that the tension spring is not pulled as indicated by the dotted line (in the illustration) when the accelerator pedal is depressed all the way in.

WARNING:

Before starting this operation, be sure to turn off the main switch.

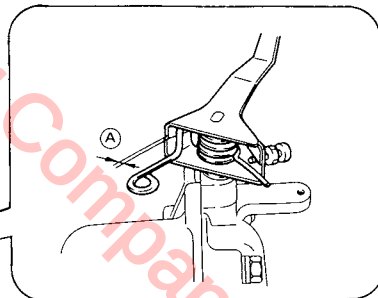
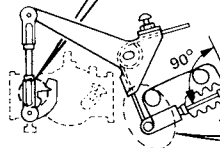
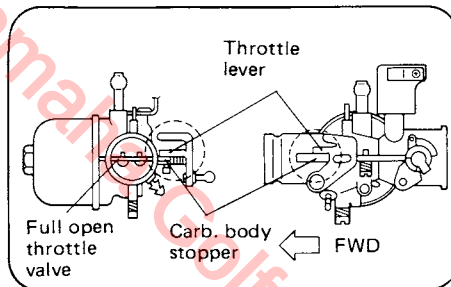
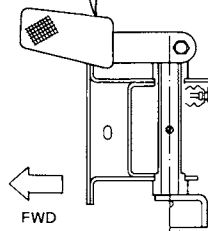
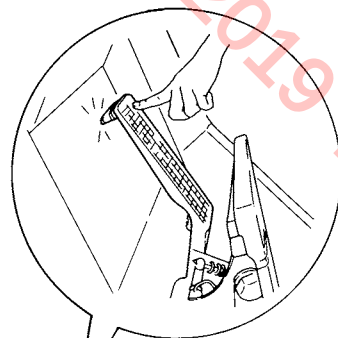
- 2) When the accelerator pedal is depressed all the way down, the throttle lever should come to contact with the carburetor body stopper.

CAUTION:

Otherwise, the carburetor shaft may possibly be worn abnormally.

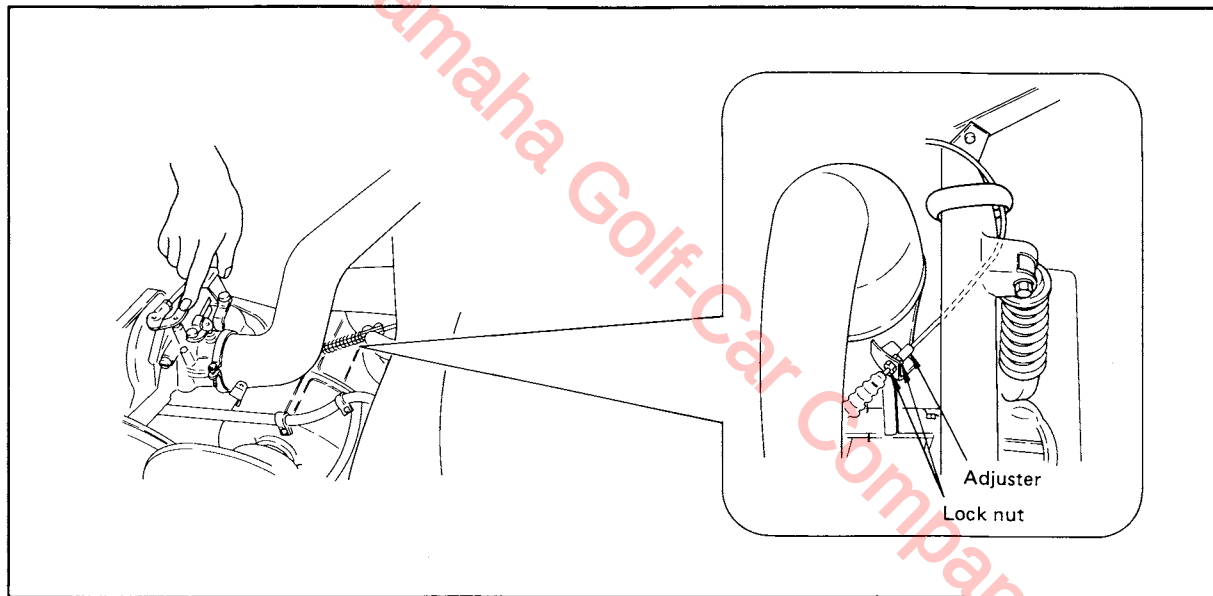
NOTE:

Make sure there is no gap (A) between the spring and the lever when depressing the accelerator until its stop.



- 3) If necessary, adjust throttle wire at adjuster so that when the accelerator pedal is depressed to limit, the throttle just reaches the full-open position. And tighten the lock nut.

NOTE: _____
By pulling and pushing the adjuster, adjust it.
Then tighten the lock nut.



11) Throttle wire free play adjustment

a. Free play adjustment

- 1) Turn off the main switch.
- 2) Set the parking brake in the second position.
- 3) Lightly depress the accelerator pedal with your hand. (The parking brake should not be released).

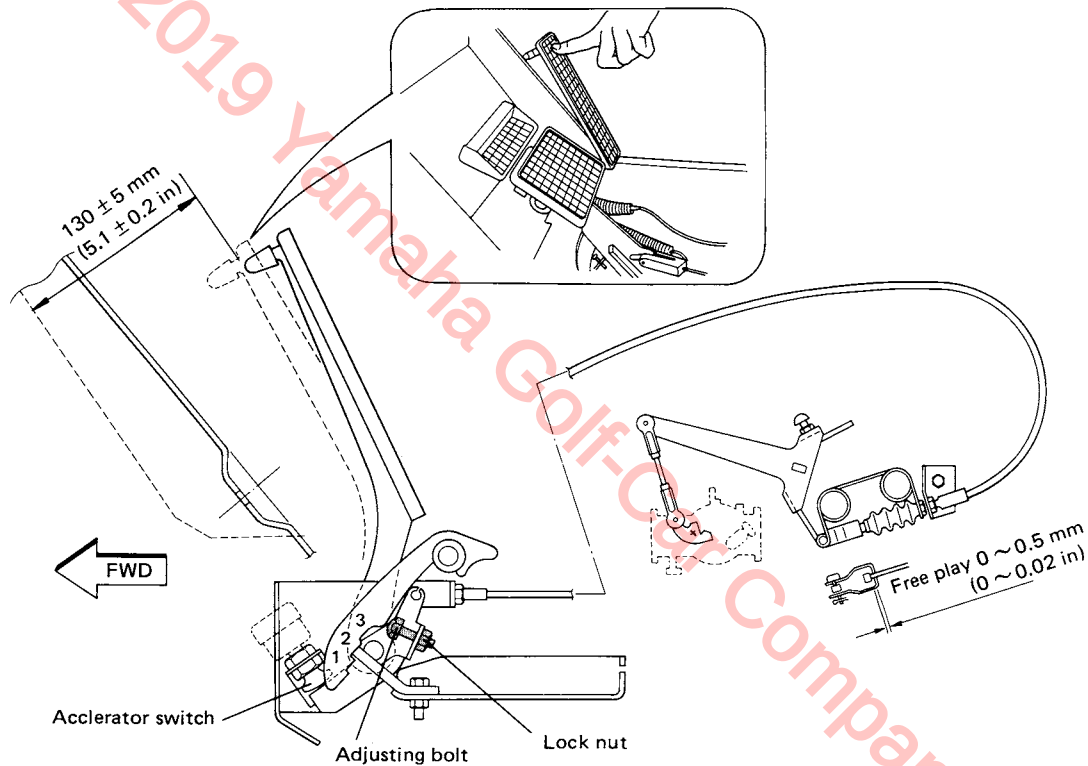
When the accelerator pedal is depressed, the free play of the speed limiter lever is 0 ~ 0.5 mm (0 ~ 0.02 in).

Free play of throttle wire:

0 ~ 0.5 mm (0 ~ 0.02 in)

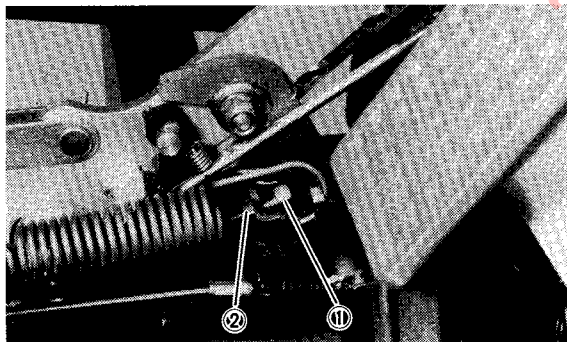
WARNING:

An excessive free play will allow the car to back, when making a start on a slope, so be sure that the free play of the throttle wire is properly adjusted.



If necessary, adjust the free play by turning the adjust bolt and lock it with the lock nut.

Adjustment (Adjusting screw)	Free play (Throttle wire END)
Tightening (Clockwise)	Decreasing
Loosening (Counterclockwise)	Increasing



1. Adjusting bolt 2. Lock nut

WARNING:

Check to see that when the accelerator pedal is depressed and released, the throttle wire moves smoothly and that the throttle valve closes completely.

- b. To check if the engine can keep on smooth idling, proceed as follows:
- 1) Remove the V-belt.
 - 2) Disconnect the black/white connector.

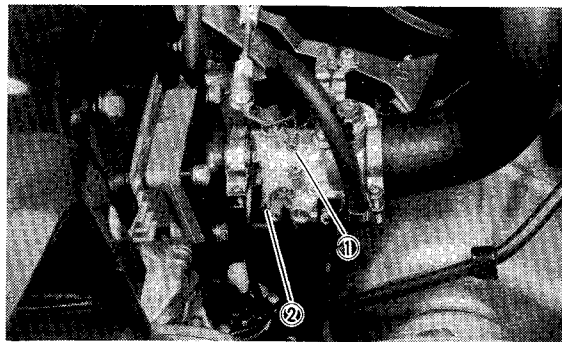


- 3) Turn the main switch to "Forward" position.
- 4) Set the parking brake in the second position from the lower.
- 5) Lightly depress the accelerator pedal with your hand. (The parking brake should not be released.)
Now the engine will start.
Take your hand off the accelerator pedal, and check to see that the engine keeps on running.

Idling speed: 1,200 r/min

For adjustment, refer to "Carburetor Adjustment."

12) Carburetor adjustment



1. Throttle stop screw 2. Pilot screw

a. Slow circuit adjustment

The golf car is operated mostly at low speeds, and therefore the adjustment of the slow circuit is very important.

Turn out the pilot screw to specification from a lightly seated position*, and make a test run. According to the weather and terrain, adjust the slow circuit properly by loosening or tightening the pilot screw 1/8 ~ 1/4 turn each time.

NOTE:

Tightening (clockwise) the pilot screw (PS) makes the mixture leaner, and loosening (counterclockwise) it makes the mixture rich.

Number of turns out of pilot screw (PS):
1.0 turn out

CAUTION:

*Avoid turning the pilot screw too hard; otherwise, the tapered portion of the pilot screw could be damaged and poor lower speed performance may result.

b. Idling speed adjustment

When the accelerator pedal is released, the golf car engine will stop. For this reason, it is impossible to measure the idling speed under normal conditions.

• ADJUSTMENT PROCEDURE:

- 1) Make sure that the pilot screw (P.S.) is 1.0 turn out.
- 2) Loosen the carburetor throttle stop screw to clear the throttle arm.
- 3) Slowly tighten the throttle stop screw until it is lightly touched the throttle arm, and give it another two turns.

Standard throttle stop screw (S.S.) setting:
2 turns in

NOTE:

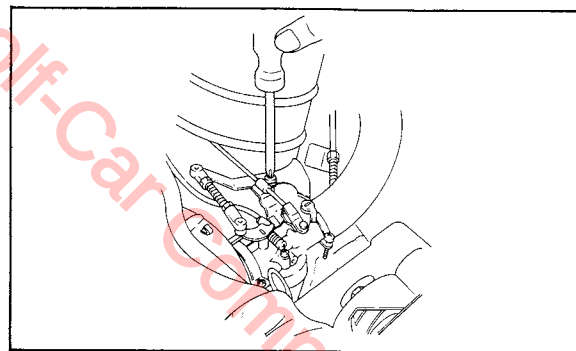
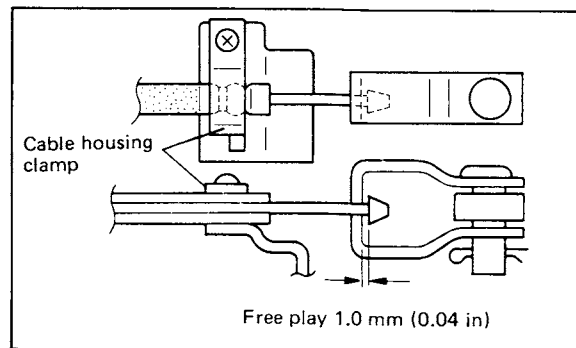
The G3-A has been designed with importance on both fuel economy and riding comfort, but if additional riding qualities are required, the following throttle stop screw setting is recommended.

Recommended throttle stop screw setting:
4 turns in

13) Choke cable adjustment

Adjust the outer cable by positioning it in the cable housing clamp so the choke cable lever has a play of about 1 mm (0.04 in).

After adjusting the choke cable, make sure that the choke moves smoothly.



14) Engine bracket tensioner

Check to see that the gap between the damper and rear arm bracket is 0.5 mm (0.02 in).

Standard gap between damper and rear arm bracket: 0.5 mm (0.02 in)

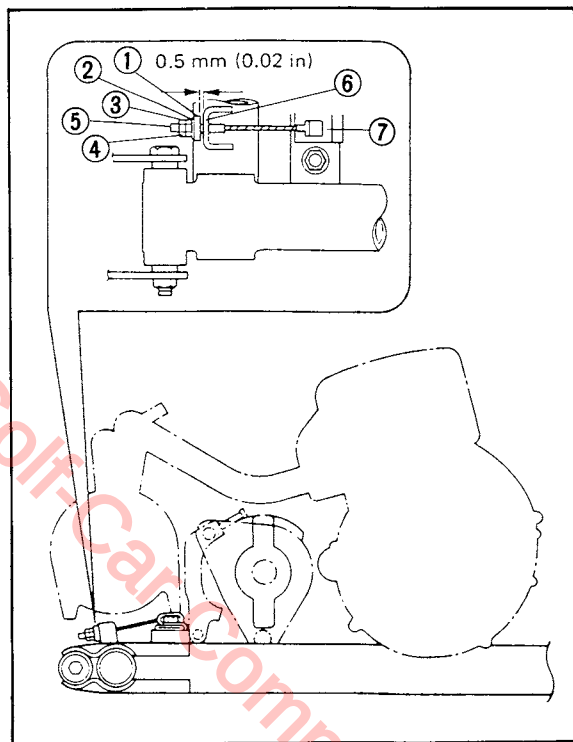
CAUTION:

- If there is no gap, that is, if the damper is in contact with the rear arm bracket, the engine vibration will transfer to the seat, thus impair riding comfort.
- On the contrary, an excess gap will have an adverse effect on the operation of the clutch drive belt.

ADJUSTMENT

Insert the thickness gauge into the gap between the damper and rear arm bracket, and tighten the double locknut.

Next, remove the thickness gauge, and check to see that the tensioner wire moves.



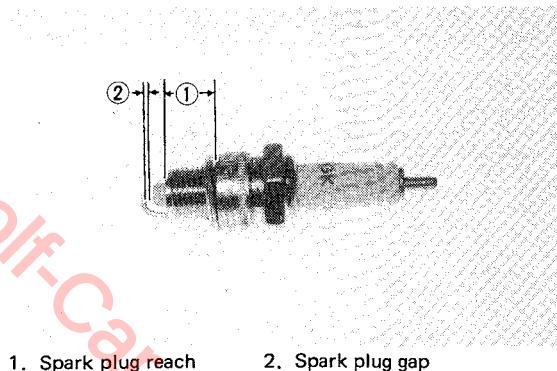
- | | |
|-----------------|-------------------|
| 1. Damper | 5. Tensioner |
| 2. Plain washer | 6. Rear arm comp. |
| 3. Lock nut | 7. Engine bracket |
| 4. Lock nut | |

15) Spark plug inspection

The spark plug is an important engine component and is easy to inspect. The condition of the spark plug can indicate something of the condition of the engine. Check the coloration on the white porcelain insulator around the center electrode. The ideal coloration at this point is a medium to a light tan color for a machine that is being driven normally. If a spark plug shows a distinctly different color, there could be something wrong with the engine. For example, a very white center electrode porcelain color could indicate an intake tract air leak or carburetion problem. Do not attempt to diagnose such problems yourself. Instead, take the machine to your Yamaha dealer. You should periodically remove and inspect the spark plug because heat and deposits will cause any spark plug to

slowly break down and erode. Consult your dealer before changing to a different type of spark plug.

Standard spark plug: BP5HS (NGK)



Spark plugs are produced in several different thread lengths. The thread length (reach) is the distance from the spark plug gasket seat to the end of the threaded portion. If the reach is too long, overheating and engine damage may

result. If the reach is too short, spark plug fouling and poor performance may result also, if too long, carbon will form on the exposed threads resulting in combustion chamber hot spots and thread damage.

Always use a spark plug with the proper reach.

Spark plug reach: 12.7 mm (1/2 in)

Before installing any spark plug, measure the electrode gap with a wire thickness gauge. Adjust to specification.

Spark plug gap:

0.6 ~ 0.7 mm (0.024 ~ 0.028 in)

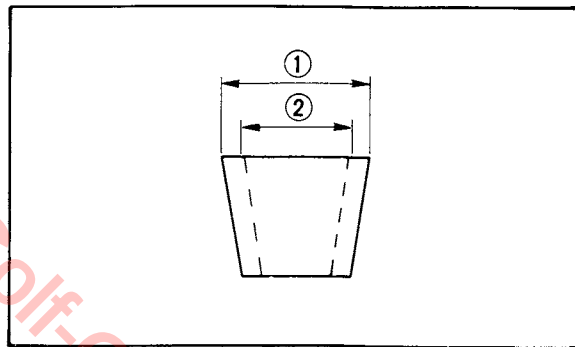
When installing the plug, always clean the gasket surface. Wipe off any grime from the threads and torque the spark plug properly.

Spark plug torque:

28 Nm (2.8 m•kg, 20 ft•lb)

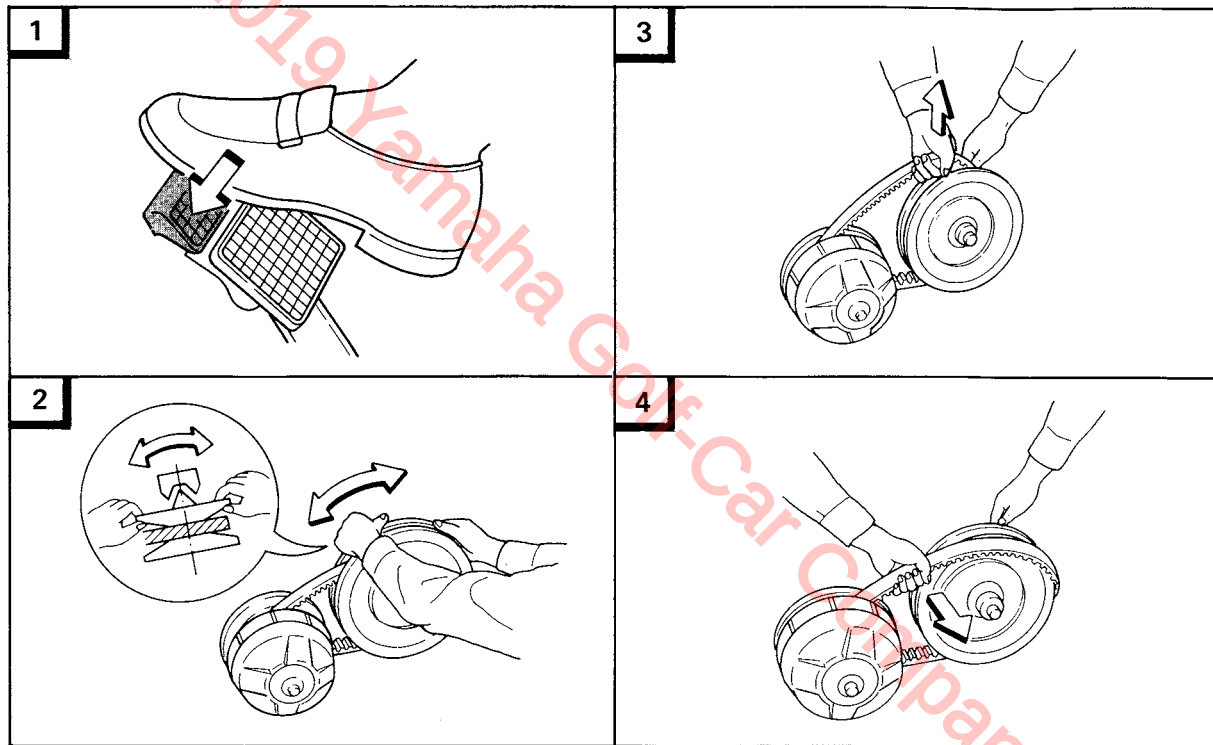
16) Clutch belt

Check wear and damage. If worn beyond the wear limit or damaged, replace it with new one.

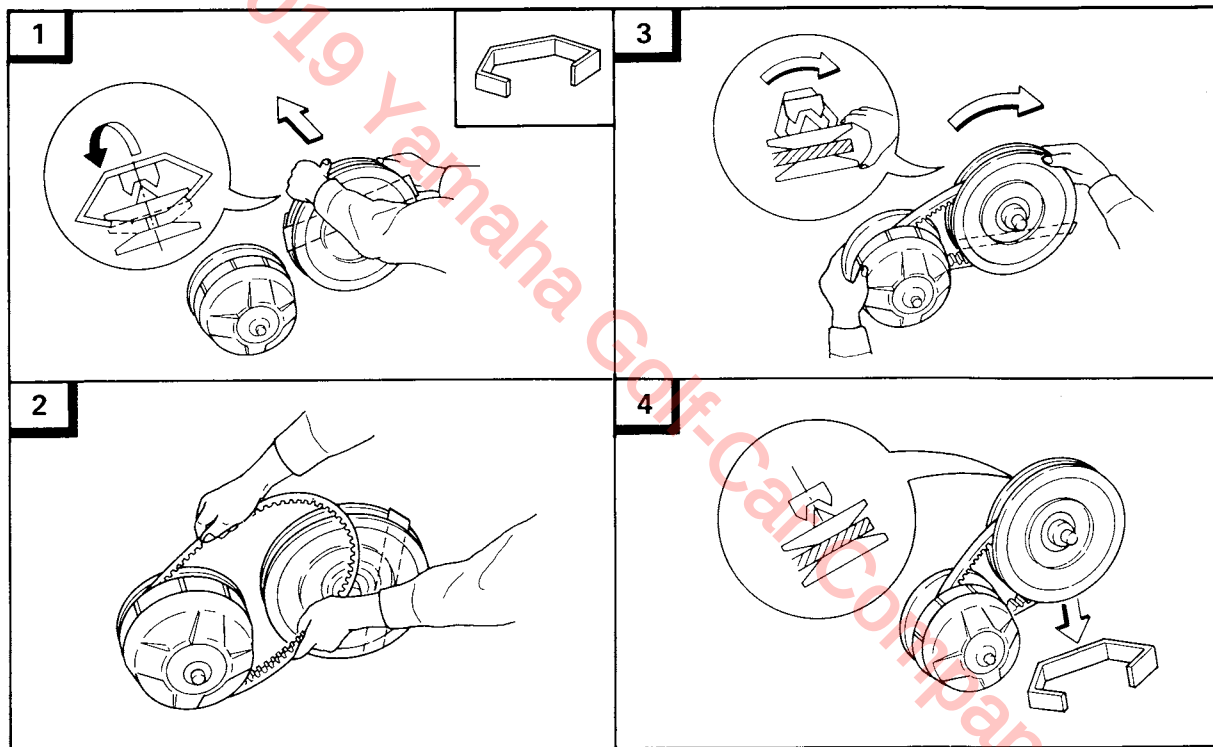


1. New: 31.0 mm (1.22 in)
2. Wear limit: 27 mm (1.06 in)

How to remove the V-belt

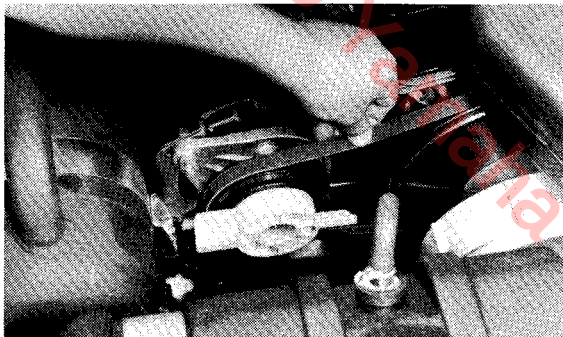


How to install the V-belt



17) Starter-generator belt

- a. Check for damage, and replace it if it is at all damaged.



Starter-generator belt tension:

New belt (preset tension)

8 mm/10 kg (0.31 in/22.05 lb)

Normal

10 mm/10 kg (0.39 in/22.05 lb)

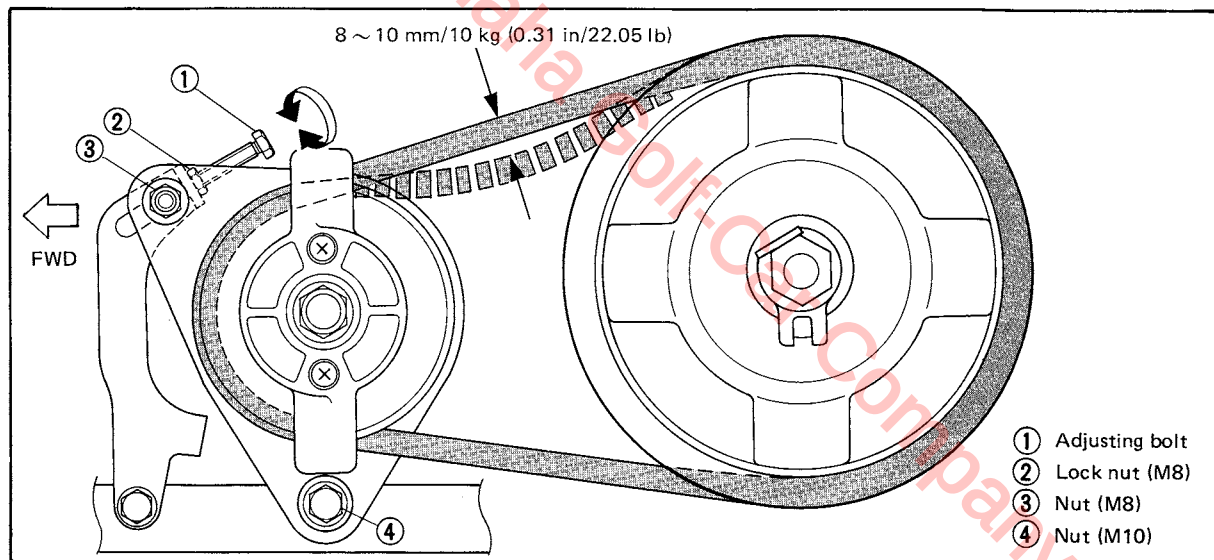
- b. Starter-generator belt tension adjustment

Check the belt tension by applying a force of 10 kg (22.05 lb) at its center.

If it deflects more than specification, adjust the belt tension.

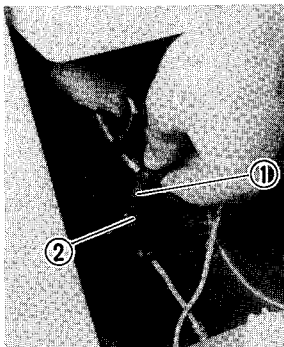
- 1) Loosen the nut ④ (M10) at the bottom of the starter-generator.
- 2) Loosen the nut ③ (M8) on top of the starter-generator.
- 3) Loosen the lock nut ② (M8) and adjust the belt tension by turning the adjusting bolt ①.

- 4) Tighten the nut ③ on top of the starter-generator.
- 5) Check the belt tension.
- 6) Tighten the lock nut ②.
- 7) Tighten the nut ④ (M10) at the bottom of the starter generator.

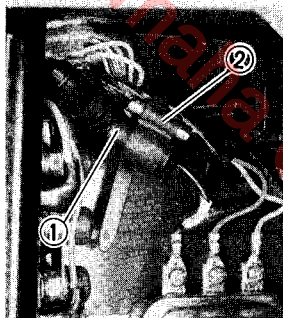


Fuse replacement

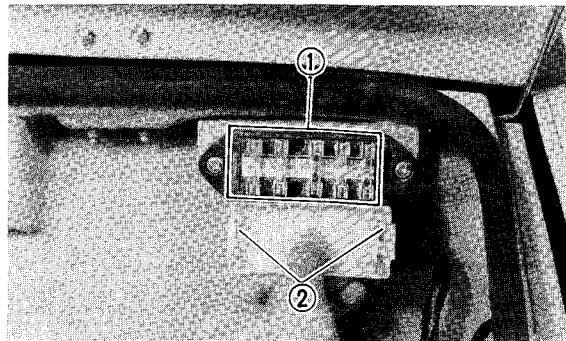
1. There are two fuse blocks on this golf car. The main fuse block is located under the seat inspection lid. The other fuse block is located in the front trunk.



1. Main fuse



2. Spare fuse



1. Other fuse block

2. Spare fuse

2. If any fuse is blown, turn off the main switch and the switch in the circuit in question. Install a new fuse of proper amperage.

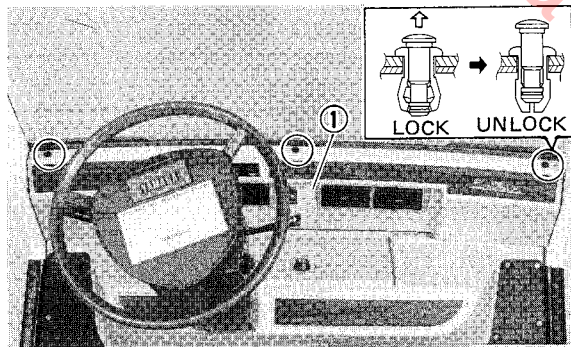
Turn on the switches, and see if the electrical device operates. If the fuse immediately blows again, consult a Yamaha dealer or other qualified mechanic.

CAUTION:

Do not use fuses of higher amperage rating than those recommended. Substitution of a fuse of improper rating can cause extensive electrical system damage and possibly a fire.

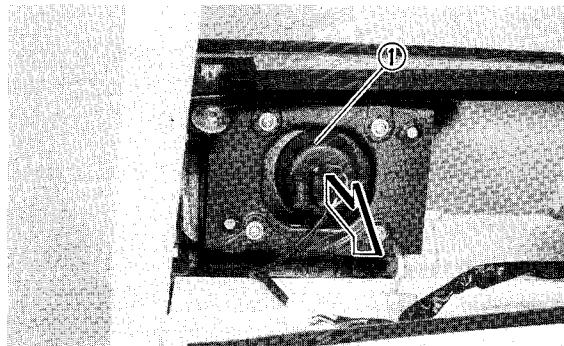
Headlight bulb replacement

1. Remove the headlight cover.



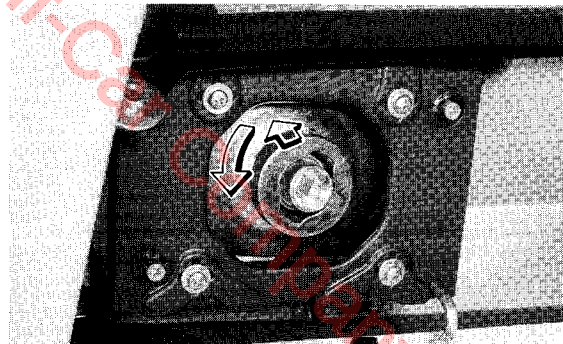
1. Headlight cover

2. Disconnect the lead wires and remove the cover.



1. Cover

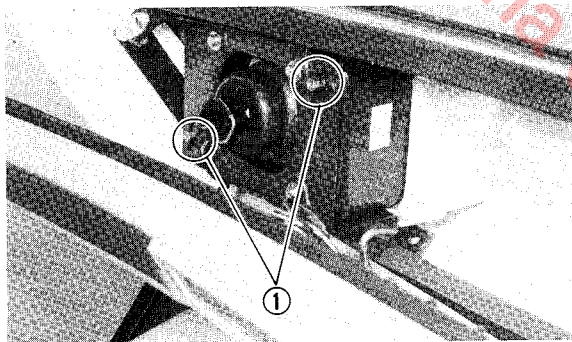
3. Turn the bulb holder counterclockwise and remove the defective bulb.



4. Slip a new bulb into position and secure it with the bulb holder.
5. Reinstall by reversing the removal procedure. Adjust the headlight beam if necessary.

Headlight beam adjustment.

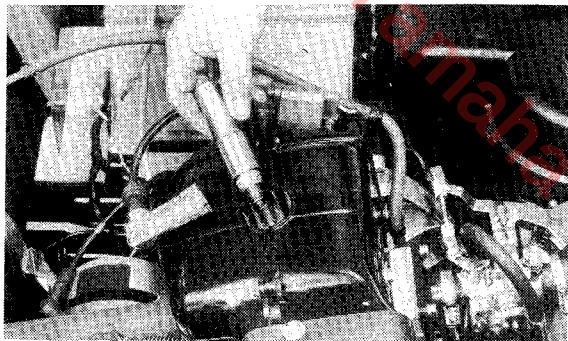
To adjust the headlight beam, turn the adjuster clockwise or counterclockwise.



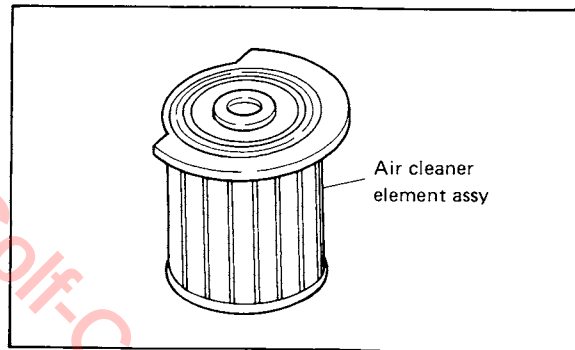
1. Adjuster

COMPONENTS REPLACED ANNUALLY

Replace the spark plug yearly or as necessary.



Replace the air cleaner element ass'y yearly or as necessary.

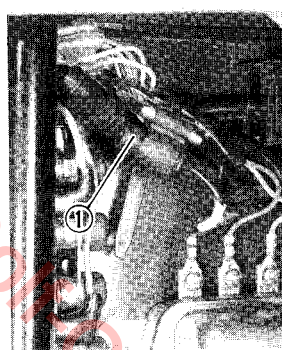


TROUBLESHOOTING

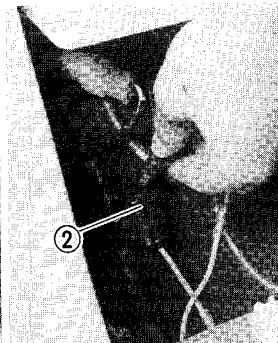
Troubleshooting a running problem or a "won't start" problem may at first appear difficult. If a methodical approach is taken, however, the problem usually can be found quickly and easily. Many troubleshooting procedures require special equipment such as multimeters and other electrical testing devices. Only the most basic items have been included in the following troubleshooting material. If the problem cannot be found with these procedures, and if you are not familiar with more advanced diagnostic methods, consult your golf car dealer.

TROUBLESHOOTING PROCEDURE

- 1) If the gas car is completely dead and will not turn over, check both fuses and replace them as necessary.



1. Fuse (-)

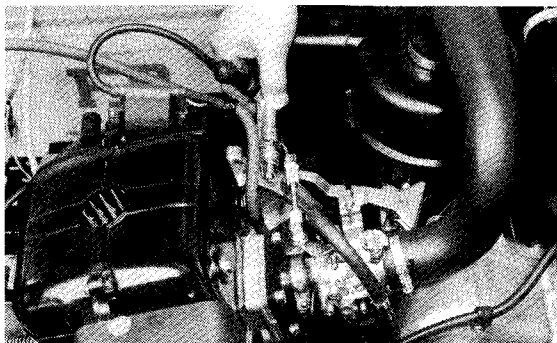
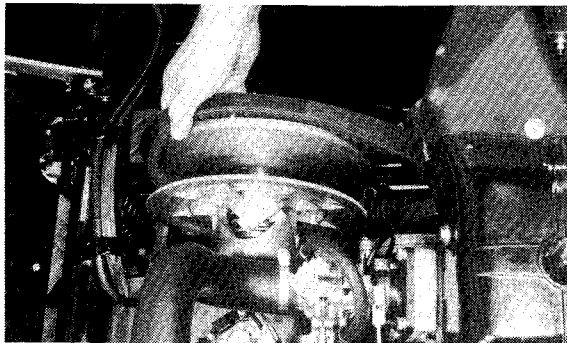


2. Fuse (+)

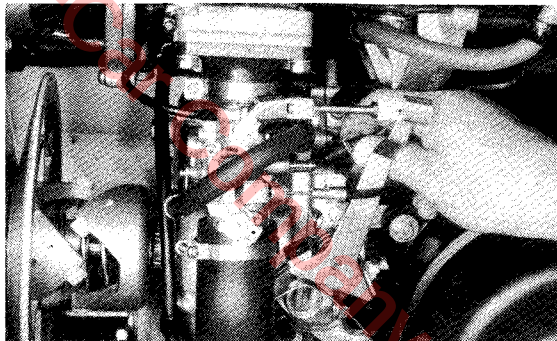
- 2) To check for spark, first remove the drive belt; remove the spark plug and put the spark plug in the plug cap, ground the plug body, and turn the engine over while observing the spark plug electrodes.

WARNING:

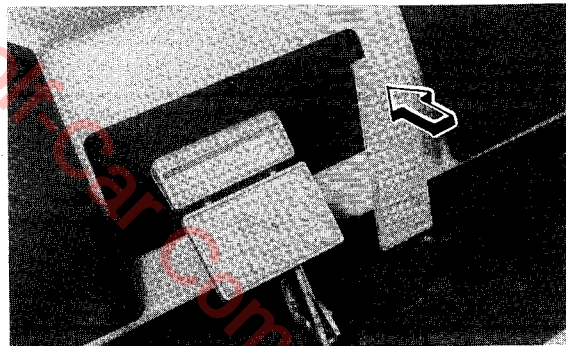
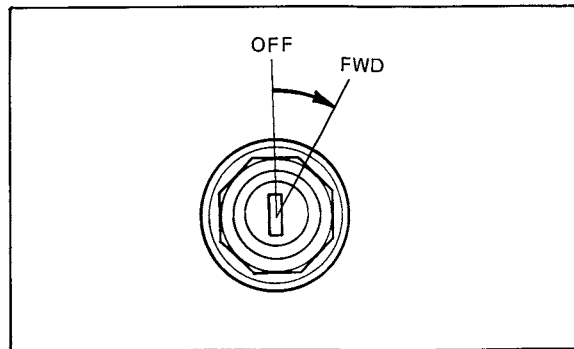
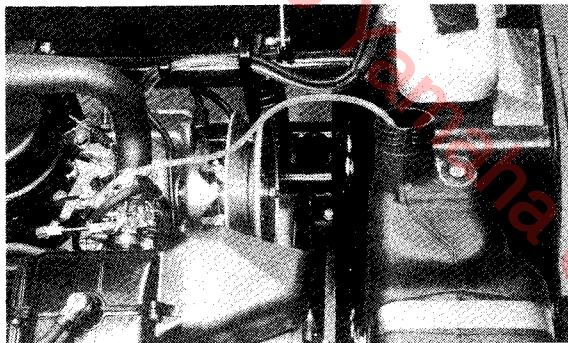
When conducting the above test, the spark plug must not be placed near the cylinder head, or any place where gasoline or gasoline fumes may exist.



- 3) To check gas flow to carburetor, remove the drive belt and pull the gas line from the carb.

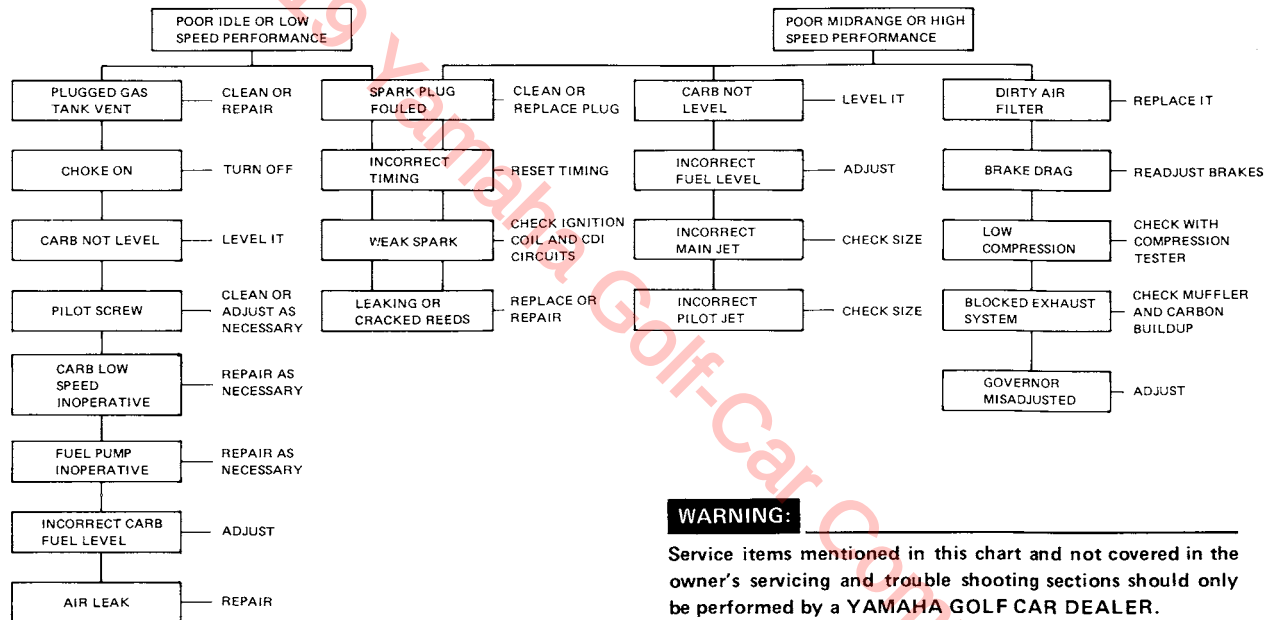


Connect an additional fuel pipe from the outlet to the fuel tank and turn the engine over while observing flow from the line.



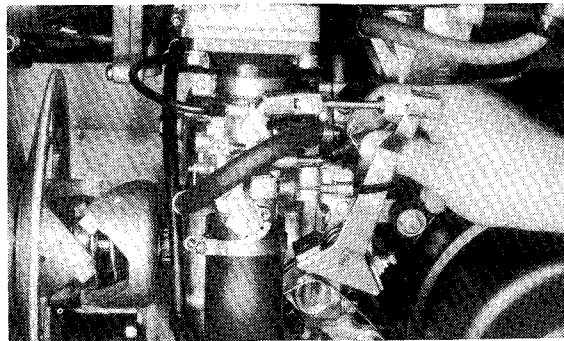
The following chart provides additional ideas on troubleshooting.

TROUBLESHOOTING CHART



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

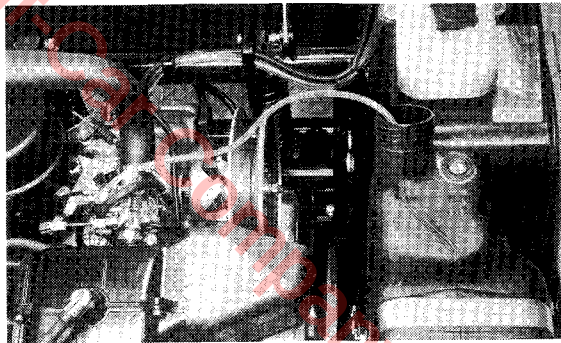
1. Remove the fuel line from the carburetor.
 - a) Remove the V-belt.

NOTE: _____

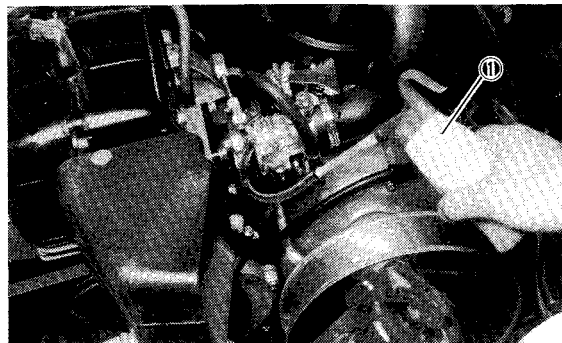
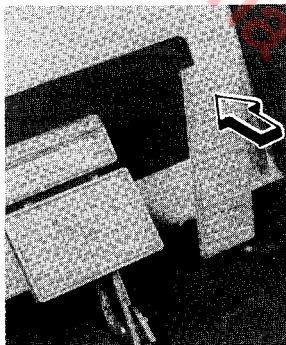
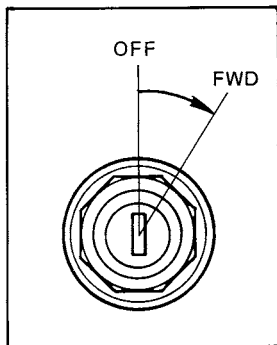
Store the golf car with the V-belt removed.

- b) Remove the fuel line from the carburetor.

- c) Connect it to the fuel tank by using an additional suction.



- d) Remove the outer hose from oil pump at the carburetor.
- e) Start the engine (Turn the main switch to Forward and depress the accelerator pedal) and squirt 2-stroke oil into the air intake until the float-bowl fuel is used up and the engine stops.

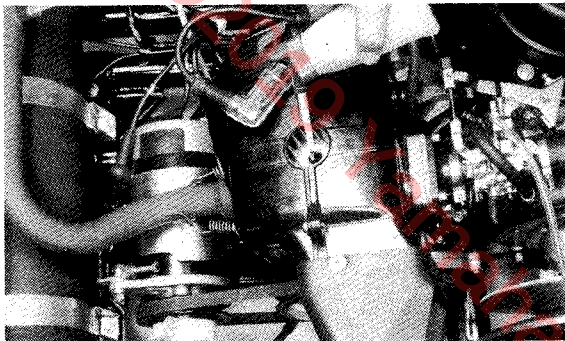


1. Oiler

- f) Pour 1/2 ounce of oil into the spark plug hole.

CAUTION:

Position the piston at top dead center (TDC). If it is at bottom dead center (BDC), the oil may flow into the exhaust port and intake port, thus adversely affecting engine performance.



- g) Replace the spark plug and run the starter for a few seconds. (Depress the accelerator)
- h) Install the spark plug.

NOTE: _____

Place the piston at TDC for storage.

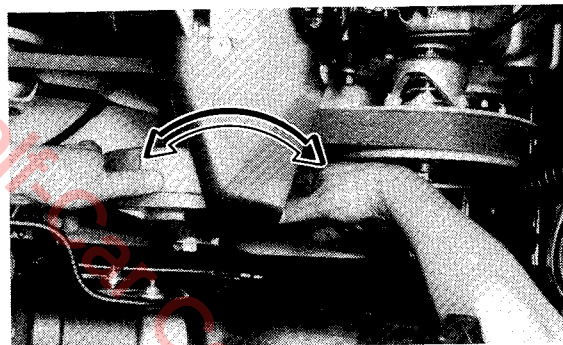
Relationship between the piston position and humidity

By closing the exhaust port with the piston (which is positioned at TDC), the entry of moisture into the cylinder can be reduced, and thus engine parts can be pro-

tected from rust.

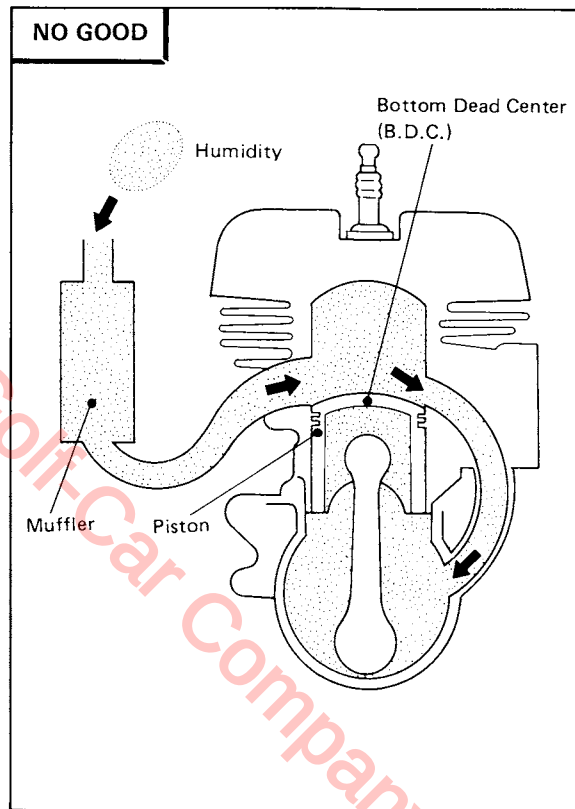
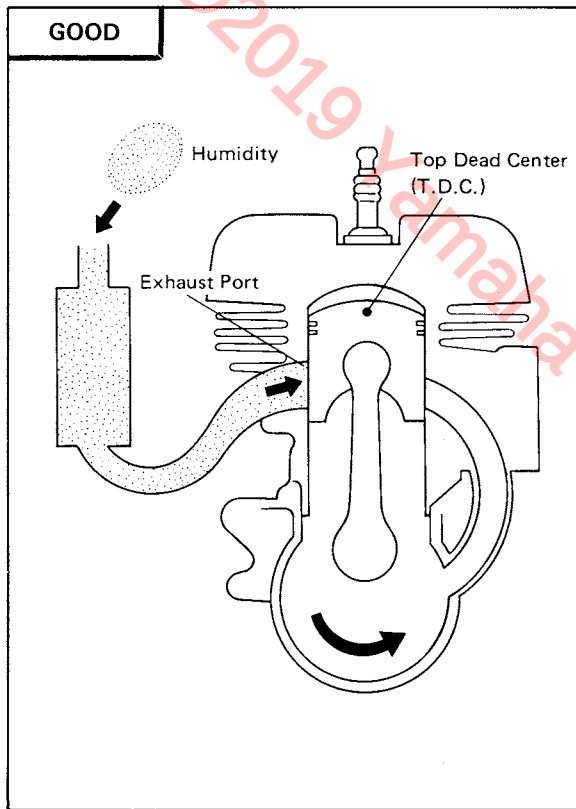
PROCEDURE:

Store the vehicle with the piston positioned at TDC. To bring the piston to TDC, turn the primary sheave by hand and it becomes stiff for a certain range of turn. Determine the center point of that range, which is the piston TDC.



NOTE: _____

During the rainy season or when the car is not used for more than one month, place the piston at TDC.



2. Drain the fuel tank and line.
3. Charge the battery until it reaches 1.260 specific gravity.
4. Add distilled water to the battery cells to achieve the proper electrolyte level.
5. Check the cells with a hydrometer every eight to 10 weeks, and charge the battery as necessary to maintain the 1.260 specific gravity reading at 80° F.
6. Increase the air pressure in the tires to 20 psi.
7. Protect the tires from moisture, oil, and ozone (such as that found in the battery charging area).
8. Lift the body, and clean and dry the chassis.
9. Avoid storage in humid areas to prevent rust and corrosion.

RETURN TO SERVICE

1. Refill the fuel tank.
2. Adjust the tire pressure to 12 psi.
3. With the key turned off, check the operation of the brakes, parking brake, accelerator, steering mechanism, and choke.
4. Start the engine and run it briefly.

NOTE: _____

Due to the additional oil placed in the engine for storage, the engine will smoke heavily for a few minutes after first being started.

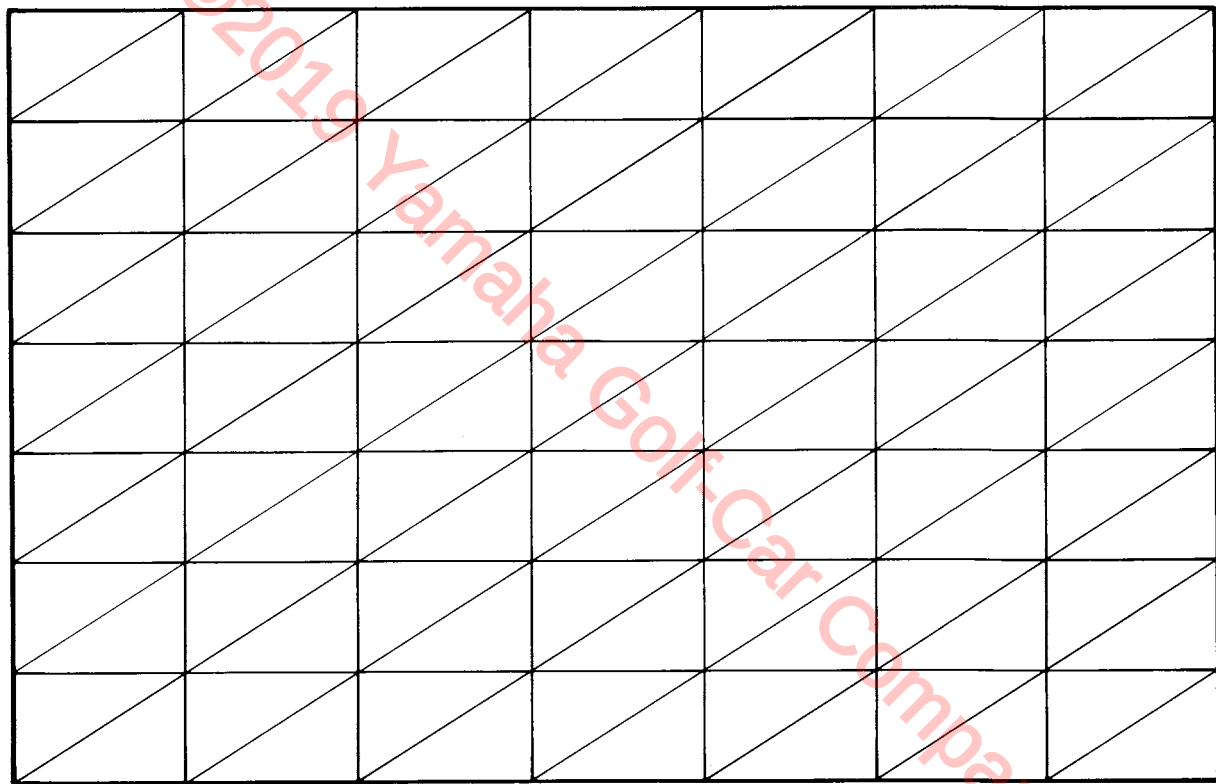
MAINTENANCE CHECK LIST

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 and return

CODE	PROBLEM
5	RUNNING: • Forward check • Forward brakes • Reverse check • Back-up buzzer
6	RATTLES OR UNUSUAL NOISES
7	OIL LEVEL
8	FUEL LEVEL
9	BATTERY FLUID LEVEL
10	CLEANUP

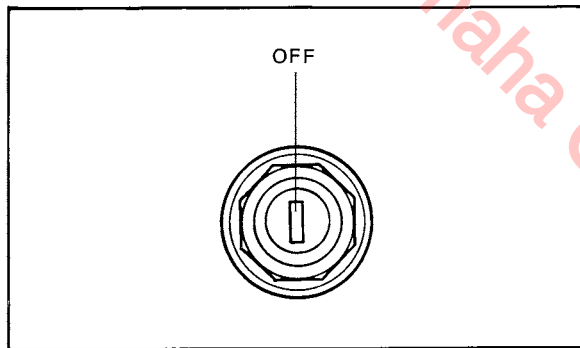
Record the date and, if necessary, the problem code:



DAILY CHECK (Procedure)

NOTE:

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



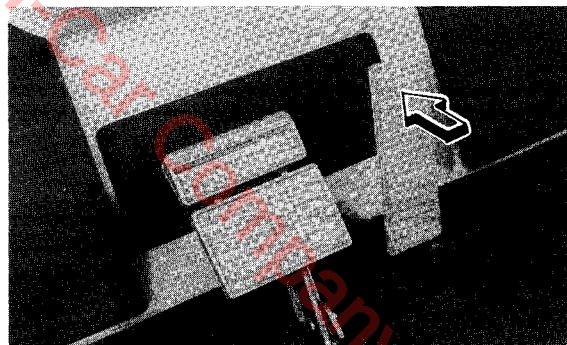
a. Check the steering mechanism free play.

b. Check the steering mechanism movement.

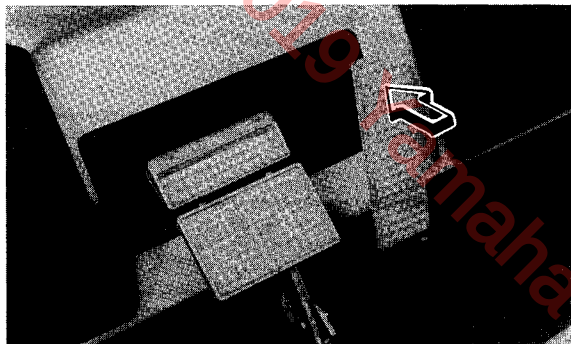


c. Check brake pedal movement.

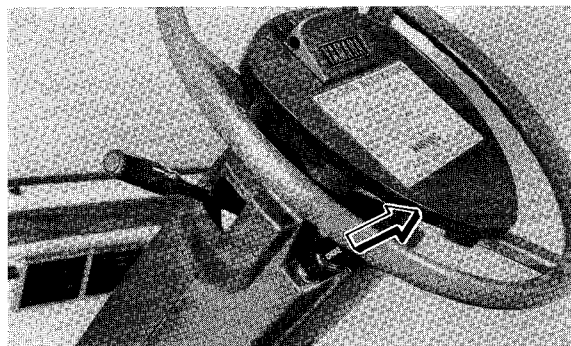
d. Check parking brake operation.



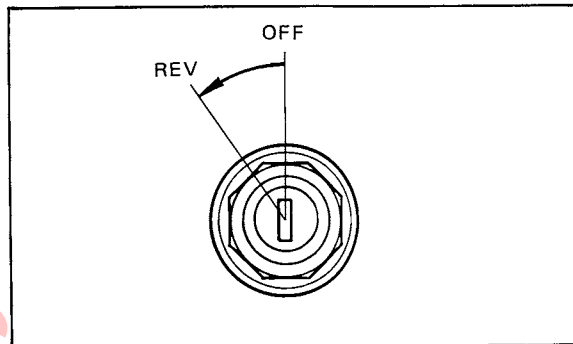
e. Check accelerator pedal operation.



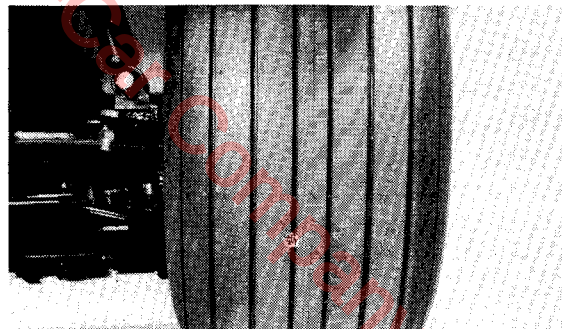
f. Check the choke wire movement.



g. Check the back-up buzzer keep at the "RESERVE" key position.



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



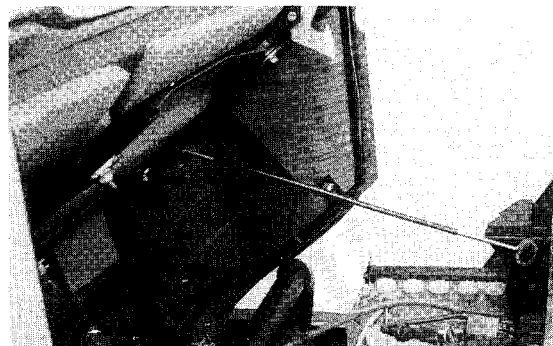
- i. Check all indicator lights before operation.



- j. Open the seat for the following checks.

NOTE: _____

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



- k. Check the battery fluid level.

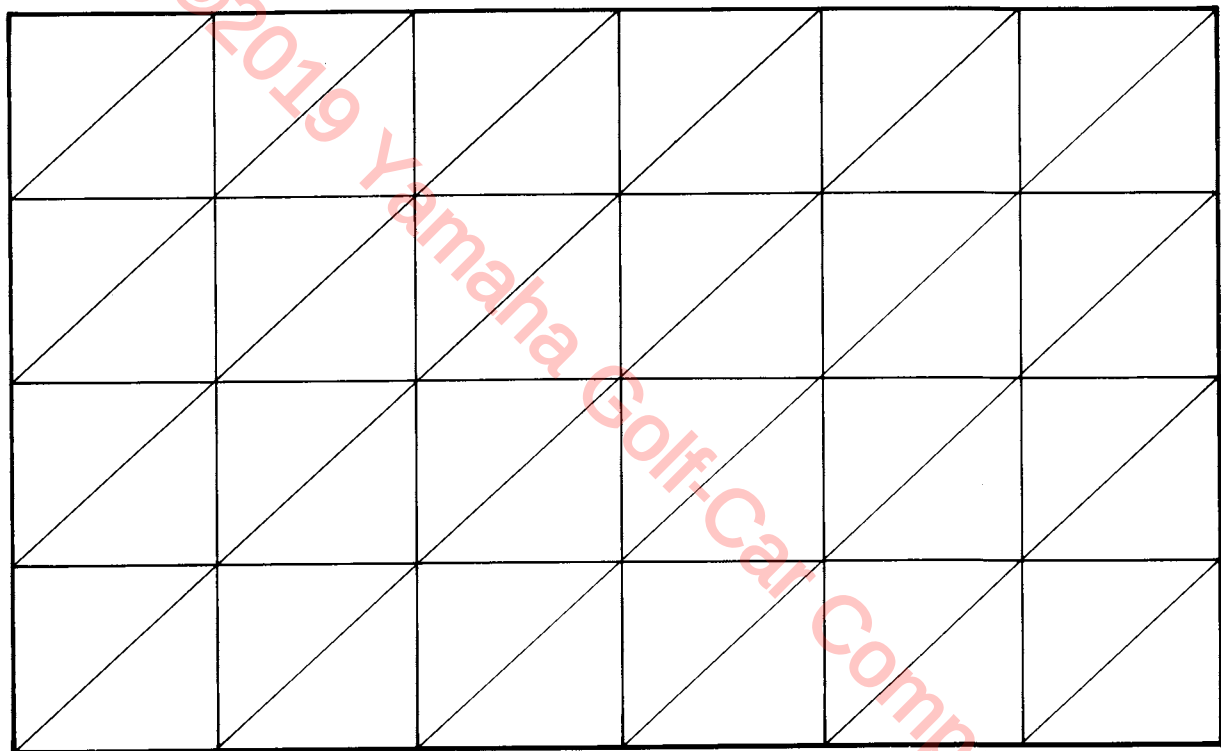


- l. Clean the seats and cowl if they're dirty.
- m. Check the feel of the car while driving to the line.
- n. Installation of golf bag securing device.

2) Golf car 13-point monthly check

- 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. Clean the engine and the engine compartment.
- 11. Check the air filter.
- 12. Check and fill the oil tank.
- 13. Check the electrolyte specific gravity.

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



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.
4. Replace the spark plug.

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. Replace the air filter.
6. Replace the oil and fuel filters.
7. Check the clutch V-belt wear.
8. Check the starter-generator belt tension.

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

SPECIFICATION

ITEMS	DESCRIPTION
Dimensions (L x W x H)	2,653 x 1,168 x 1,672 mm (104.4 x 46.0 x 65.8 in)
Dry weight	362 kg (798 lb)
Turning radius	3,000 mm (118 in)
Lubrication system	YAMAHA Automatic oil injection system (Controlled by exhaust pressure)
Oil tank capacity	1.7 L (1.5 Imp qt, 1.8 US qt)
Oil required	Yamalube Golf car oil, or if not available, any two stroke oil that is B.I.A. certified for service T.C.W.
Fuel tank capacity	24.5 L (5.4 Imp gal, 6.5 US gal)
Fuel required	Any grade of gasoline is acceptable NOTE: DO NOT USE PREMIX fuel (oil mixed in gasoline)
Ignition system	CDI Electronic ignition
Spark plug type	BP-5HS (NGK)
Spark plug gap	0.6 ~ 0.7 mm (0.024 ~ 0.028 in)
Transmission system	Automatic variable-pitch V-belt transmission, Double reduction helical gear 13.55 : 1
Brakes	Mechanical brake linkage to individual drum brakes on each rear wheel with self-adjusting brake shoe. Parking brake with automatic release.

ITEMS	DESCRIPTION
Tire type	18 x 8.50 – 8.00 Tubeless – 4 ply rating
Tire pressure	78 kPa (0.8 kg/cm ² , 11 psi)
Battery	12V 50AH

WARRANTY INFORMATION

Please refer to your copy of the YAMAHA LIMITED WARRANTY* for details of the warranty offered on your new Yamaha.

The YAMAHA LIMITED WARRANTY contains the warranty policy, an explanation of the warranty, and other important information. Becoming familiar with these policies will be to your advantage in making the best use of Yamaha's warranty programs.

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 CANNOT 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.

We recommend that the YAMAHA LIMITED WARRANTY be used as a folder in which you may keep your registration and other important documents related to your new Yamaha.

*The YAMAHA LIMITED WARRANTY is to be supplied by your Yamaha dealer at the time of purchase. If you did not receive one, or have lost yours, you may obtain extra copies upon request from your Yamaha dealer or by writing to:

**YAMAHA MOTOR CORPORATION, U.S.A.
6555 KATELLA AVE.
P.O. BOX 6555
CYPRESS, CALIFORNIA 90630
ATTN: WARRANTY DEPARTMENT**

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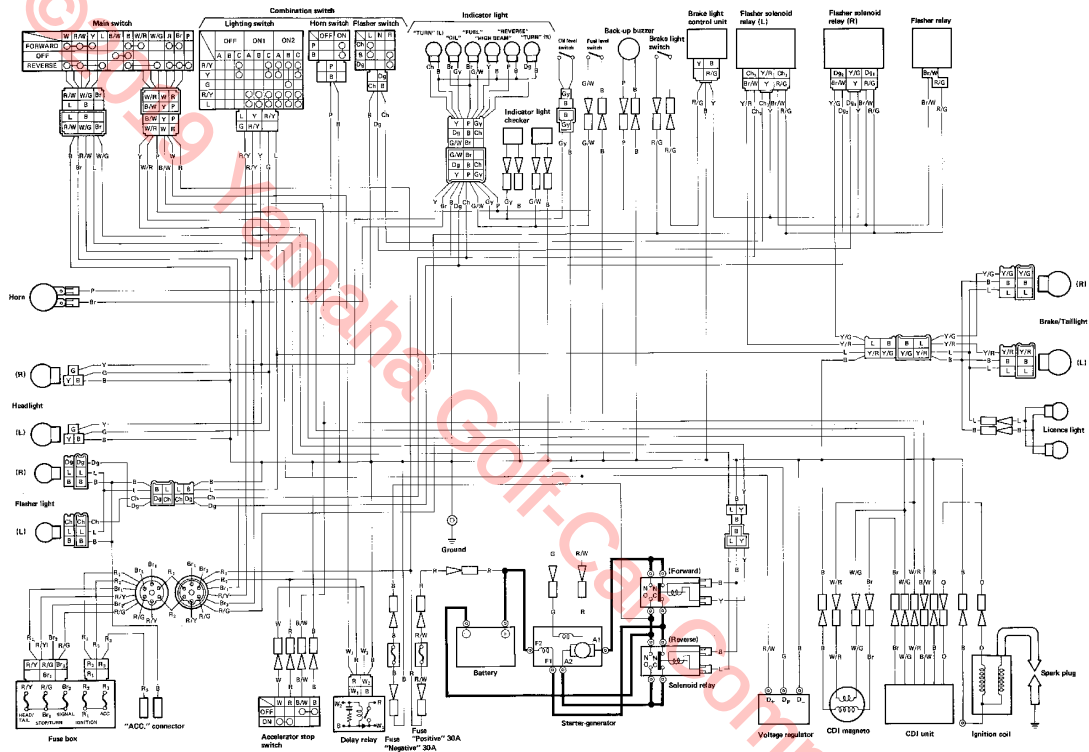
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WIRING DIAGRAM



COLOR CODE

BBlack
GGreen
LBlue
OOrange
PPink
RRed

WWhite
YYellow
BrBrown
G/W . . .Green/White
R/G . . .Red/Green
DgDark green
GyGray

B/W . . .Black/White
Br/W . .Brown/White
G/W . . .Green/White
R/G . . .Red/Green
R/W . . .Red/White
R/Y . . .Red/Yellow

W/G . . .White/Green
W/R . . .White/Red
Y/G . . .Yellow/Green
Y/R . . .Yellow/Red

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