

YAMAHA

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

GOLF CAR

G2A

LIT-11626-06-55

J38-28199-13

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G2-A

OWNER'S MANUAL

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Printed in Japan

LIT-11626-06-55

WARNING:

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:

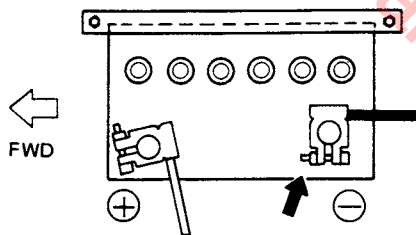
A CAUTION indicates special procedures that must be followed to avoid damage to the machine.

WARNING:

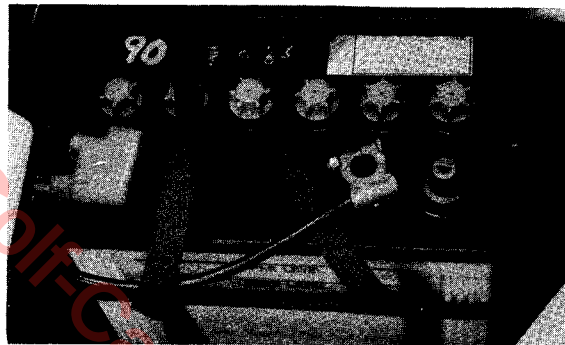
A WARNING indicates special procedures that must be followed to avoid injury to a machine operator or person inspecting or repairing the machine.

WARNING:

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

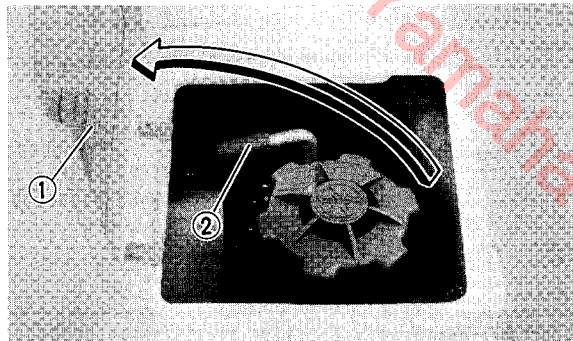


Remove this battery cable before working on car.



OPENING OF THE SEAT

1. Open the lid.
2. Pull up the lever and slowly open the seat forward.

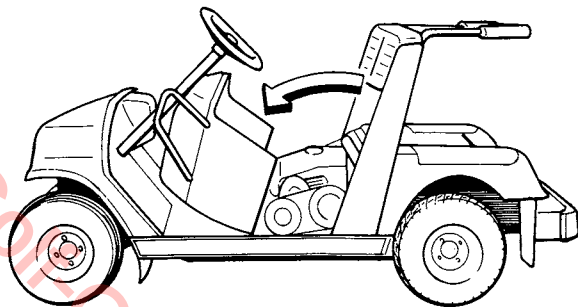


1. Lid

2. Lever

NOTE: _____

Depress the parking brake pedal when opening the body.



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.

SERVICE DEPT.
LEISURE VEHICLE AND POWER
PRODUCTS OPERATIONS
YAMAHA MOTOR CO., LTD.

— MEMO —

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SAFETY WARNINGS

FAILURE TO OBEY THESE SAFETY WARNINGS MAY RESULT IN SEVERE PERSONAL INJURY OR DEATH.

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

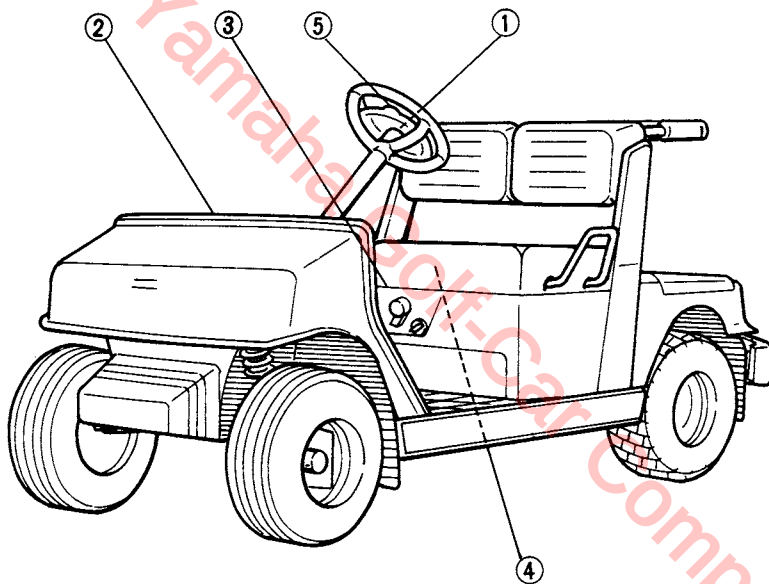
- Be sure all occupants remain seated and a passenger holds on to the arm rest.
- Keep arms, legs, and feet inside the vehicle.
- On an incline, drive up and down the incline in a vertical manner slowly — never at an angle.
- Slow down when turning.
- Avoid sharp, quick turns.
- Vary the speed of the vehicle to match the terrain.

- In reverse, drive slowly and watch where you are going.
- Do not exceed the factory speed setting of 12 mph 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.

LOCATION OF THE “WARNING, CAUTION AND SPECIFICATION LABELS”



①

OPERATING INSTRUCTION

- BE SURE OCCUPANTS ARE SEATED SELECT FORWARD OR REVERSE SHIFT LEVER POSITION BEFORE TURNING IGNITION KEY ON.
- CAR 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 WHEN LEAVING CAR. BRAKE WILL AUTOMATICALLY RELEASE WHEN ACCELERATOR PEDAL IS DEPRESSED.
- BRING THE CAR TO A COMPLETE STOP BEFORE REVERSING DIRECTION.

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.

②

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. CHILDREN ARE TO OPERATE.

③

CAUTION

**DO NOT CHANGE SHIFT
LEVER POSITION WHILE
THE CAR IS MOVING.**

④

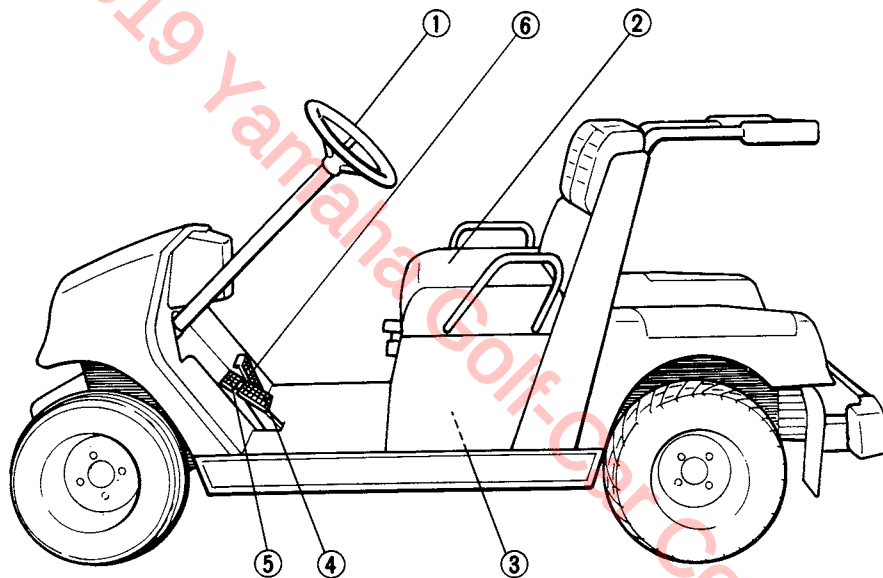
USE REGULAR UNLEADED GASOLINE ONLY**ENGINE OIL**

- SAE 10W30, API SERVICE CLASSIFICATION SE OR SF
- CHECK OIL LEVEL PERIODICALLY. SEE OWNER'S MANUAL.

⑤

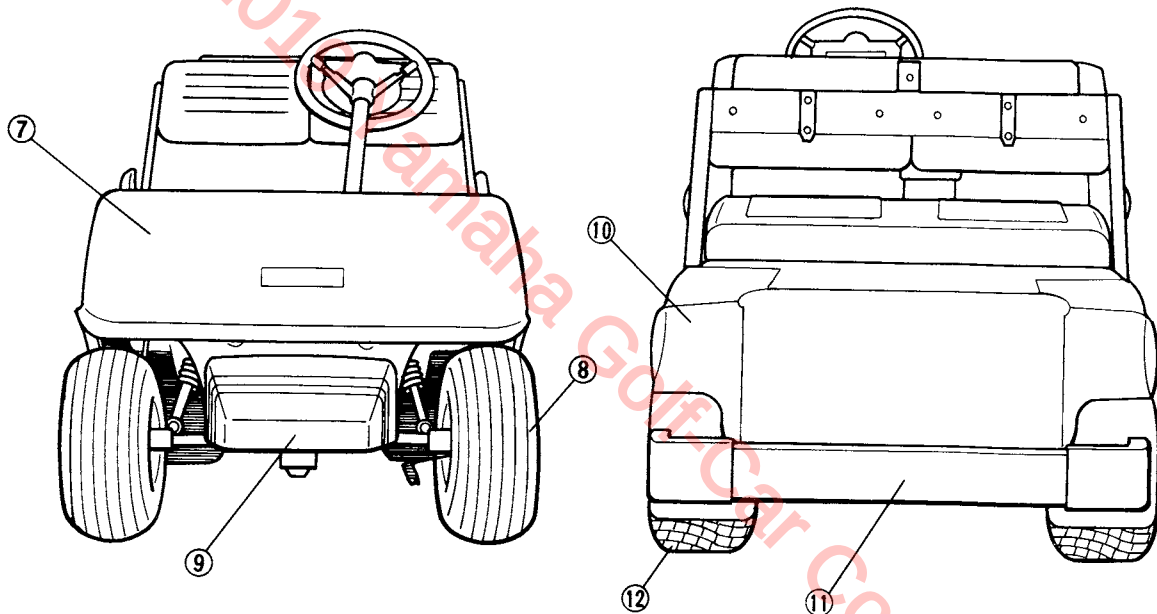
**PUSH IN CHOKE KNOB
AFTER WARMING UP!**

DESCRIPTION



NOTE:

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



1. Steering wheel
2. Seat
3. Battery
4. Brake pedal

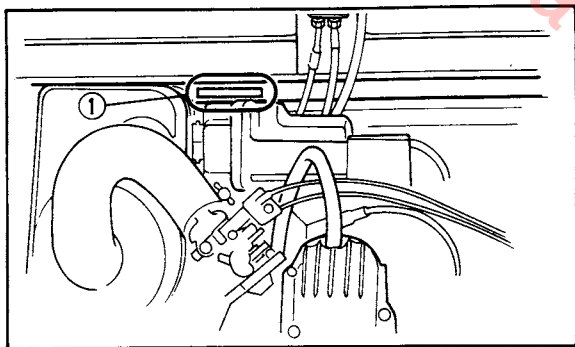
5. Parking brake pedal
6. Accelerator pedal
7. Front cowl
8. Front tire

9. Front bumper
10. Rear cowl
11. Rear bumper
12. Rear tire

CAR IDENTIFICATION

Frame serial number

The frame serial number is located on the rectangular pipe under the operator's seat. 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 left hand side of the crankcase cover. The prefix indicates engine type and displacement. The prefix is followed by a dash and the serial number.



1. Engine serial number

MAIN PARTS FOR OPERATION

Main switch

Functions of the respective switch positions are as follows:

ON:

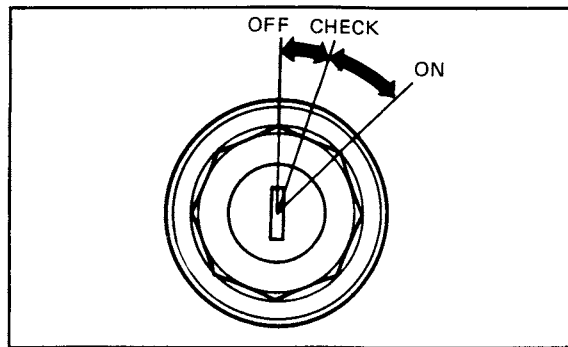
Electrical circuits are switched on. The key can not be removed in this position.

CHECK:

The oil warning indicator light will come on. For details of the oil warning indicator light, refer to the "Oil warning indicator light" on page 10.

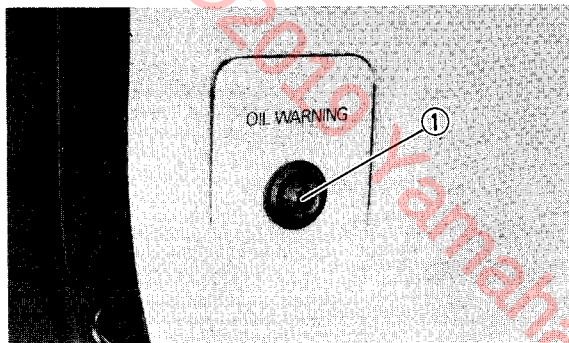
OFF:

Electrical circuit are switched off. The key can be removed in this position.



"OIL WARNING" indicator light (red)

This indicator comes on when the oil level is low. This light circuit can be checked by the following procedure.

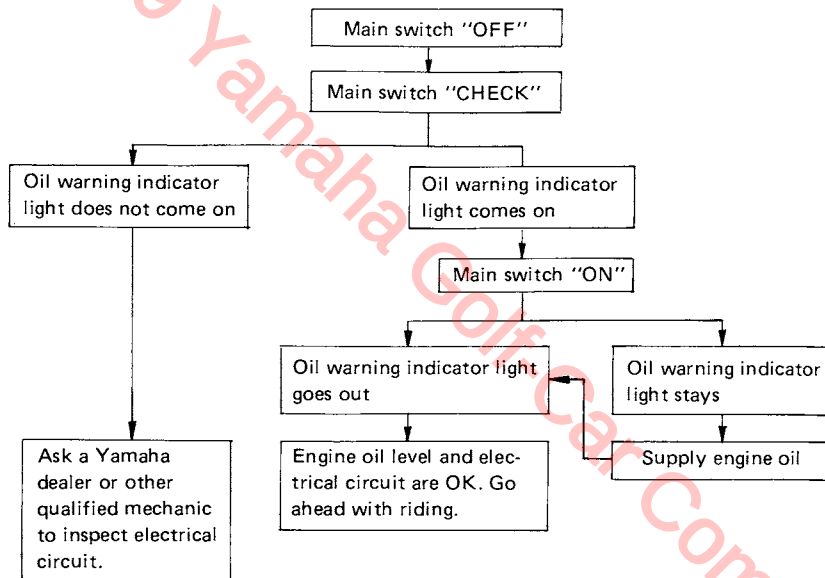


1. "OIL WARNING" indicator light

CAUTION:

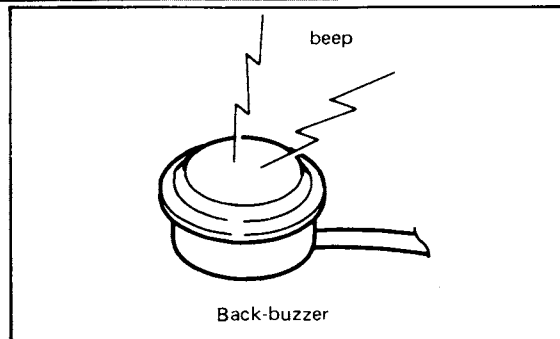
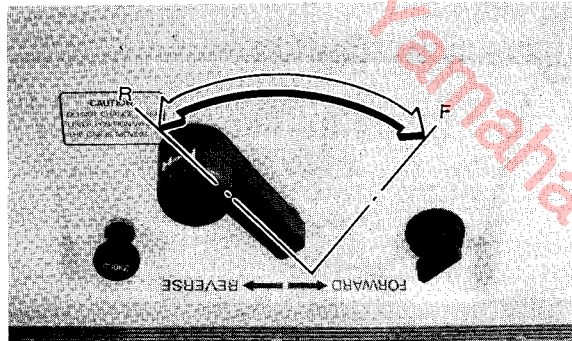
Do not run the golf car until you know the golf car has enough engine oil.

Oil warning light checking method



Drive select lever

Turn to the "F" for the forward position. Turn to the "R" for the reverse position and the back-up buzzer beeps of warning.



Accelerator pedal

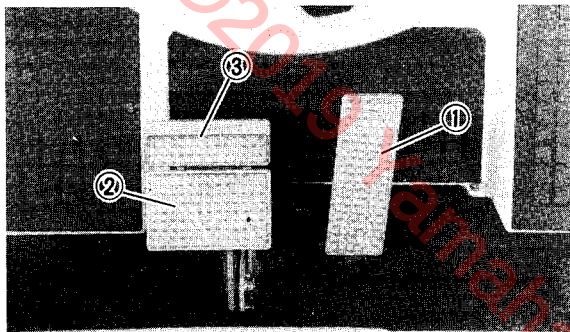
With the drive select lever turn the "F" or "R" position, depressing the accelerator pedal will start the engine and make the car move in the selected direction. When the accelerator pedal is released, the engine will stop and the car will coast to a halt.

Brake pedal

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

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.

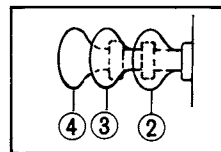


1. Accelerator pedal
2. Brake pedal
3. Parking brake

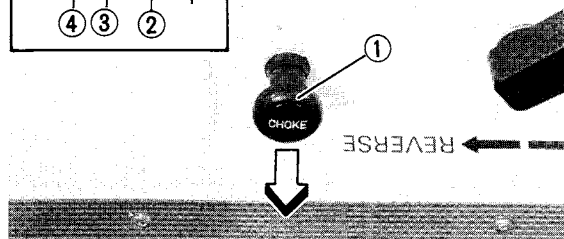
Choke knob

Use the choke knob when starting a cold engine. Fully pull the knob, start the engine, and release the knob.

Push back the knob when the engine warms up.



OVER POSITION WHEN
THE CAR IS MOVING



1. Choke knob
2. Warm engine starting
3. Warming up
4. Cold engine starting

OPERATION INSTRUCTIONS

Driving

a. Forward

Turn the main switch to "ON".

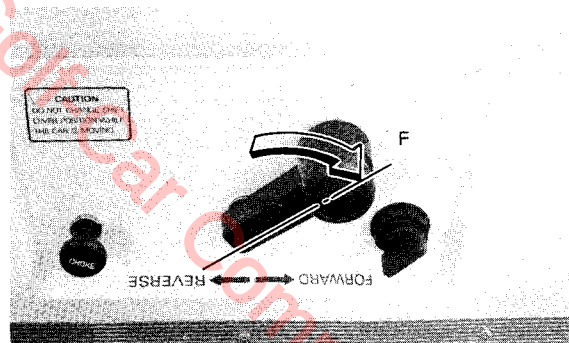
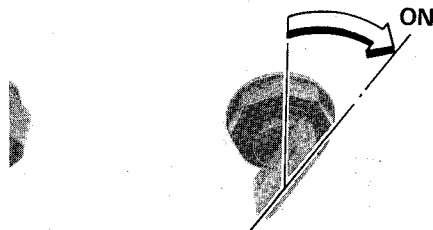
Turn the drive select lever to "F".

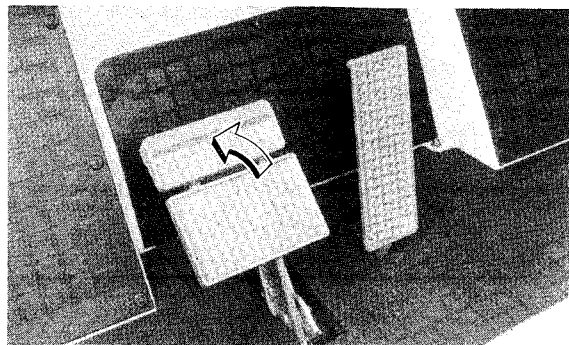
Slowly depress the accelerator pedal.

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.



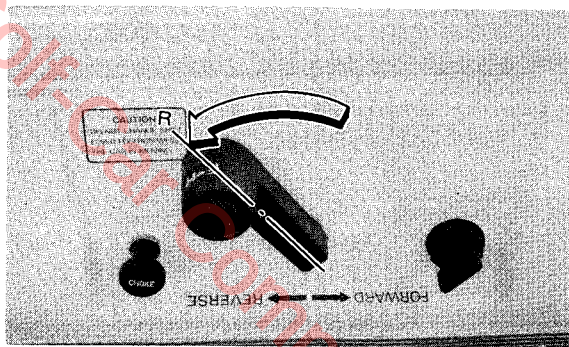


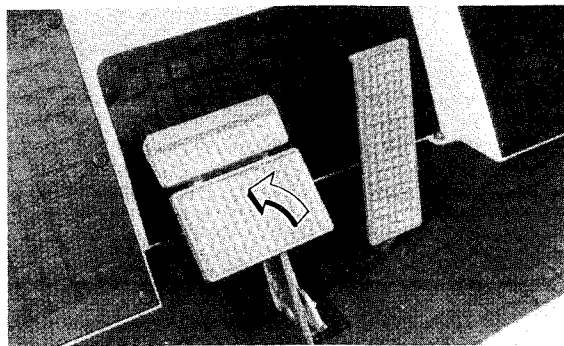
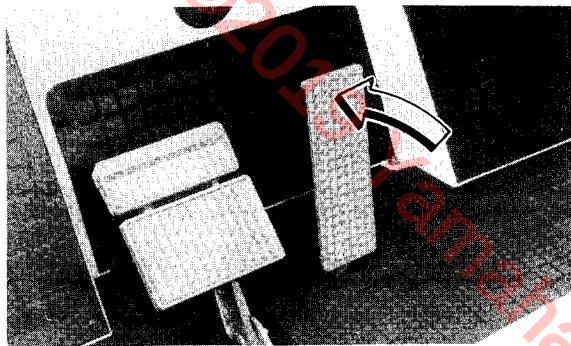
b. Reverse

Turn the main switch to "ON". Turn the drive select lever to "R". When the drive select lever is turned to "R", 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.



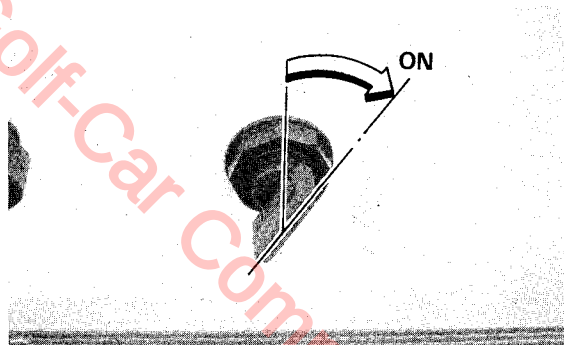


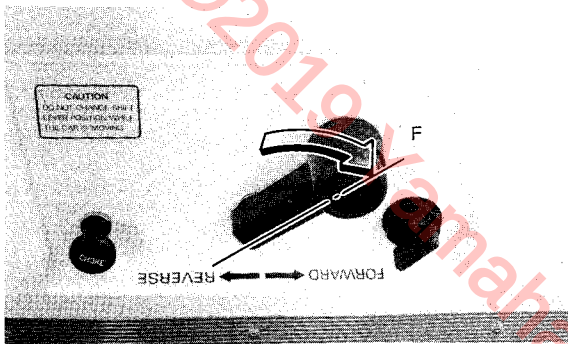
c. Starting on an upward slope

On an upward slope, set the parking brake, turn the main switch to "ON". Turn the drive select lever to "F" and depress the accelerator pedal.

WARNING:

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



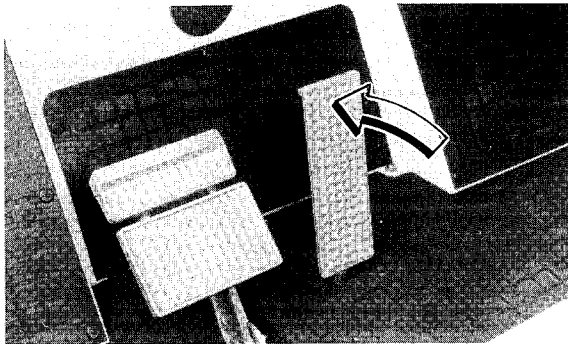


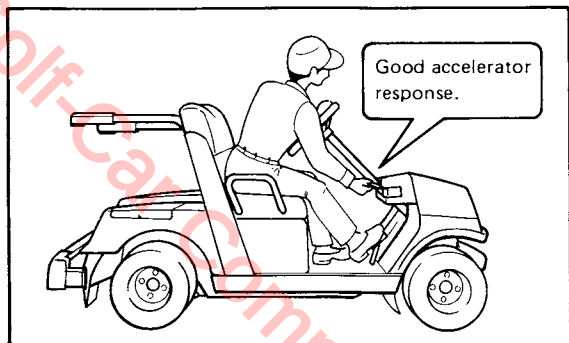
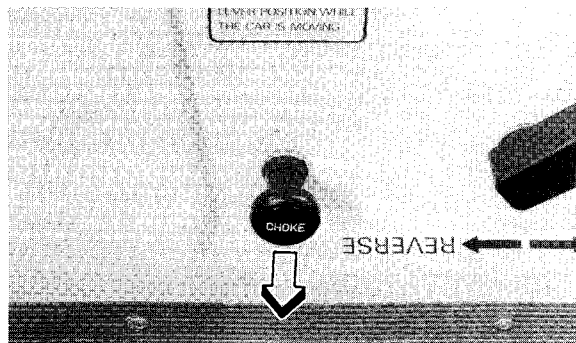
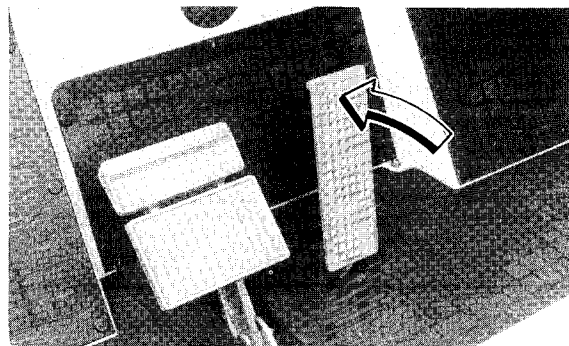
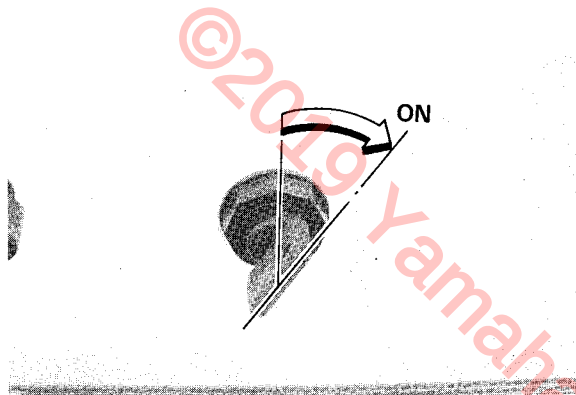
d. Choke

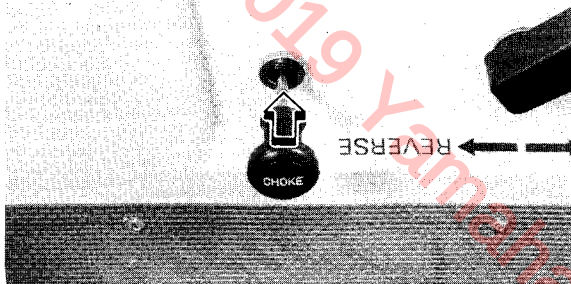
To start a cold engine, fully pull the choke knob and hold it. Slowly depress the accelerator pedal. Release the choke knob when the engine is started. When the engine warms up, push back the choke knob.

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.

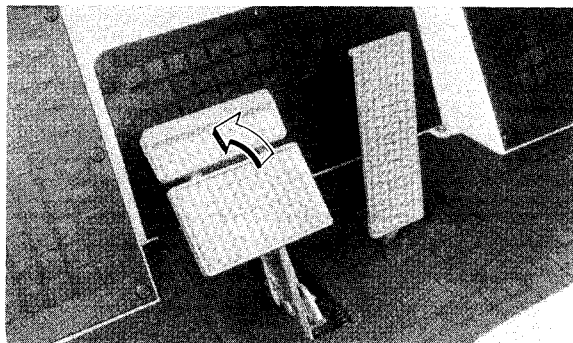






Stopping

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



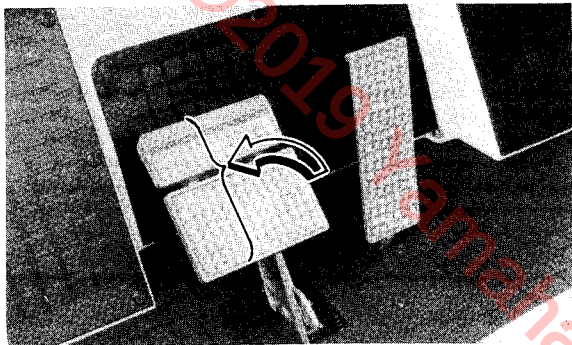
Parking

a. Parking

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

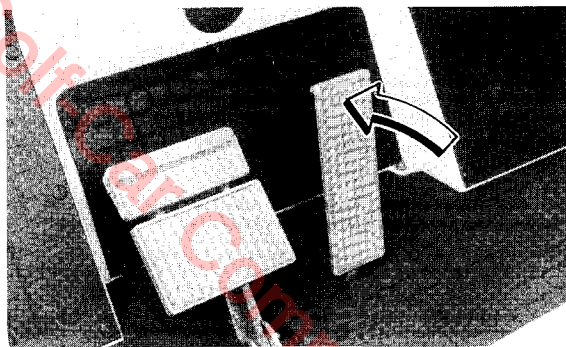
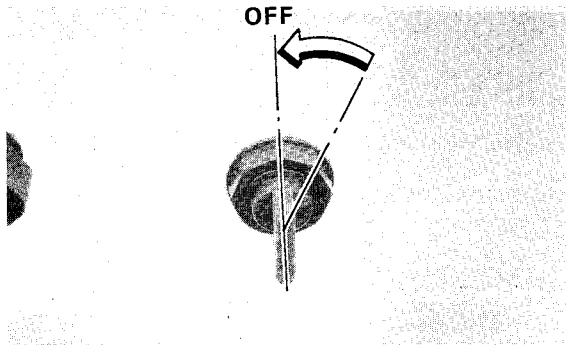
WARNING:

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



b. Unparking

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



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 before turning on the main switch.
- * 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.
- * Keep your hands on the steering 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 or key is removed, and the parking brake is on. Accidental movement of the accelerator pedal may cause it to coast down an incline.
- * Never allow more than two people to ride in the car.

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	Engine oil	Oil level	30 ~ 32
3	Battery	Fluid level	32 ~ 33
4	Wheel	Tire pressure Cracks, damage, or hard objects embedded in tires	33 ~ 34
5	Steering wheel	Tightness, excess play Handling (Shaking, pulling to one side, stiffness)	61
6	Back-up buzzer	Back-up warning alarm at reverse position	11, 63
7	Choke	Operation of choke wire	12, 62
8	Brake pedal	Play Braking efficiency	34 ~ 37, 62
9	Parking brake	Braking efficiency and releasing timing	62
10	Accelerator pedal	Easy operation and return	62

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

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.

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 responsible 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 responsible 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

Use this table to determine maintenance by the number of rounds (hours) or the period which ever comes first.

○ Checking or Adjusting ● Lubricating or Replacing

Item	Remarks	EVERY						Page
		Pre- Operation	20Rounds 10hours (1month)	125rds 60hrs (6mns)	250rds 130hrs (1year)	500rds 250hrs (2yrs)	1000rds 500hrs (4yrs)	
Engine	Adjustment: Valve clearance (cold) [Intake: 0.1 mm (0.004 in), Exhaust: 0.1 mm (0.004 in)]						○	
	Check tightness of cylinder head.						○	
	Check condition of air filter foam cover. Wash it with solvent and allow it to dry.			○	○			37~39
	Check condition of air filter element assy. Replace element.			○	●			37~39
	Check spark plug for condition of electrodes Plug gap: 0.7~0.8 mm (0.028~0.031 in)			○	●			46~47
	Adjustment: Engine bracket tensioner. [Free play: 2 mm (0.08 in)]				○			42~45
	Check engine oil level.	○	○					31~32

Item	Remarks	EVERY						Page
		Pre- Opera- tion	20Rounds 10hours (1month)	125rds 60hrs (6mns)	250rds 130hrs (1year)	500rds 250hrs (2yrs)	1000rds 500hrs (4yrs)	
	Replace oil: Oil amount: 1.1 L (1.16 US qt., 0.97 Imp qt) Oil type: SAE 10W30 type SE or SF motor oil (If temperature does not go below 2°C (35°F): SAE 20W40)				● (optional)		●	31~32
	Check oil delivery hose and check-valve, replace hose.					○	●	
	Check compression pressure.						○	
Fuel system	Adjustment: Throttle cable [Free play: 0.5 mm (0.02 in)]				○			39~41
	Adjustment: Choke cable [Free play: 1 mm (0.04 in)]				○			42~44
	Check operation of cables.	○			○			
	Check carburetor for dirt, or wear.					○		
	Check fuel lines for fuel leakage. Replace fuel hose.	○			○		●	
	Check fuel filter for clogging. Replace filter.				○		●	
	Check fuel level, and fuel gauge of tank.	○						

Item	Remarks	EVERY						Page
		Pre- Operation	20Rounds 10hours (1month)	125rds 60hrs (6mns)	250rds 130hrs (1year)	500rds 250hrs (2yrs)	1000rds 500hrs (4yrs)	
Primary and secondary sheaves	Check drive belt for slippage, wear, or scratches				○			
	Grease primary sheave. Grease amount: 2~3 shots (manual grease gun), 2~3 seconds (automatic grease gun) Grease type: Molybdenum disulfide grease				●			
	Lubricate secondary sheave B/G area				●			
	Check for operation and wear of sliding sheave				○			
	Check for wear of ramp shoes on secondary spring seat. Wear limit: 1.0 mm (0.04 in)				○			
Transmission case	Check for operation and installation of speed limiter.				○			
	Check for operation of forward-reverse shifting.				○			
	Check for damage of shifting cable, replace.				○		●	
	Check gearbox oil level and leakage.				○			51~52

Item	Remarks	EVERY						Page
		Pre- Operation	20Rounds 10hours (1month)	125rds 60hrs (6mns)	250rds 130hrs (1year)	500rds 250hrs (2yrs)	1000rds 500hrs (4yrs)	
	Replace gearbox oil. Oil amount: 800 cc (0.70 Imp qt, 0.85 US qt) Oil type: SAE 90 gear oil						●	51~52
Brakes	Check operation and adjust if necessary.	○	○					34~37
	Adjustment: Brake wire end play [0.1 ~ 0.5 mm (0.004 ~ 0.02 in)]	○						34~37
	Check for wear or damage parking brake ratchet and stopper.					○		
	Check shoe lining thickness: Wear limit: 1.5 mm (0.06 in)				○			
	Check drum inside diameter. Wear limit: 166 mm (6.34 in)				○			
Steering	Check operation and adjust if necessary.	○	○					
	Check gearbox for grease leakage. Grease amount: 90 cc (3.17 Imp oz, 3.04 US oz) Grease type: Multi type grease.						○	
	Adjustment: Wheel alignment [Toe-in: Unloaded 15 ± 5 mm (0.59 $\pm$ 0.20 in), Fully loaded 0 mm (0 in)]				○			

Item	Remarks	EVERY						Page
		Pre-Operation	20 Rounds 10 hours (1 month)	125 rounds 60 hours (6 months)	250 rounds 130 hours (1 year)	500 rounds 250 hours (2 years)	1000 rounds 500 hours (4 years)	
Wheel	Check kingpin play.				○			
	Check seal, cap of kingpin for damage.				○			
	Lubricate kingpin.				●			
	Check tire pressure and correct if necessary. Front and rear: 78 kPa (0.8 kg/cm ² , 12 psi)	○	○					33~34
	Check tire groove depth or far damage. Wear limit: 1.0 mm (0.04 in)				○			33~34
	Check tire surface for damage, cracks, or hard objects embedded.	○			○			
	Check tightness of wheel nut.				○			
	Check wheel rims for damage.				○			
	Check for play front wheel bearing.				○			
Body & Chassis	Check for play rear axle bearing.				○			
	Check rear axle for cracks, or distortion.				○			
	Check body and chassis for damage.				○			
	Check tightness of all bolts, nuts and screws.				○			

Item	Remarks	EVERY						Page
		Pre- Opera- tion	20Rounds 10hours (1month)	125rds 60hrs (6mns)	250rds 130hrs (1year)	500rds 250hrs (2yrs)	1000rds 500hrs (4yrs)	
	Check shock absorber for oil leakage.				○			
	Check coil spring for cracks, or damage.				○			
Starter	Check starter V-belt for damage, tension, and tightness.				○			50
	Check brushes for wear. Wear limit: 16 mm (0.63 in)					○		
	Check commutator for dirt.					○		
Battery	Check electrolyte level.	○	○					33~34
	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.

Refueling

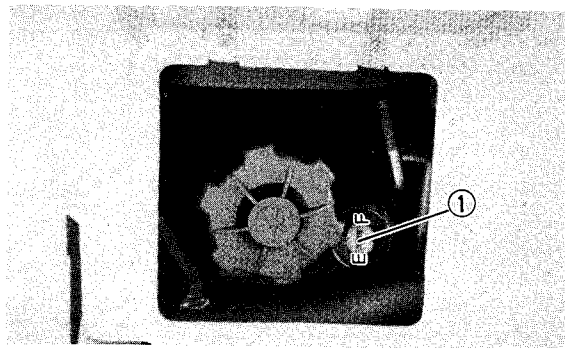
Check the fuel level gauge as often as necessary according to your usage of the golf car and fill the fuel tank if necessary.

Fuel tank capacity:

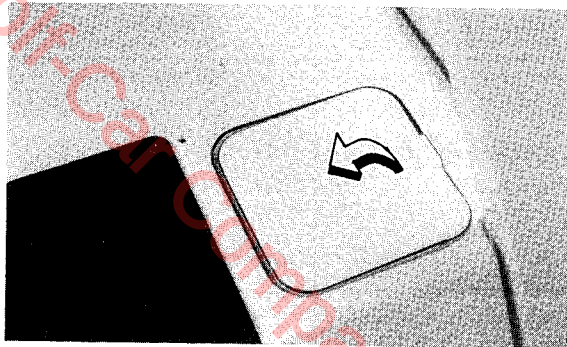
24.0 L (5.3 Imp gal, 6.3 US gal)

Recommended fuel:

**UNLEADED REGULAR
GASOLINE ONLY**



1. Fuel level gauge



Engine oil level check

1. To check the oil level, the golf car must keep horizontal with its each wheels on the ground. Warm up the engine for several minutes.
2. When checking the oil level, stop the engine and remove the oil level gauge.

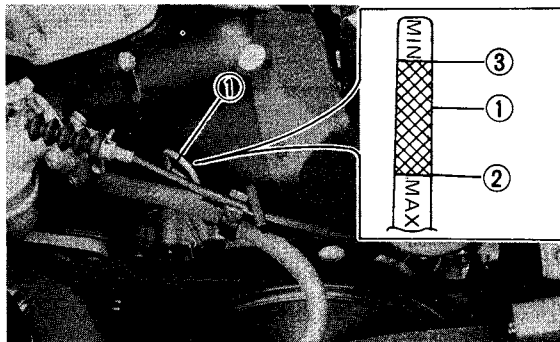
NOTE:

Wait a few minutes until the oil level settles before checking.

CAUTION:

When remove the oil level gauge, take care so that the starter belt and its vicinity are not smeared with oil. If they are smeared, wipe them with a dry cloth, etc.

3. The oil level gauge has a minimum and maximum mark; the oil level should be between the two. If the level is low add oil to raise it to the proper level.



1. Oil level gauge 2. Maximum level 3. Minimum level

Recommended oil:

SAE 10W30 type SE or
SF motor oil

Oil quantity:

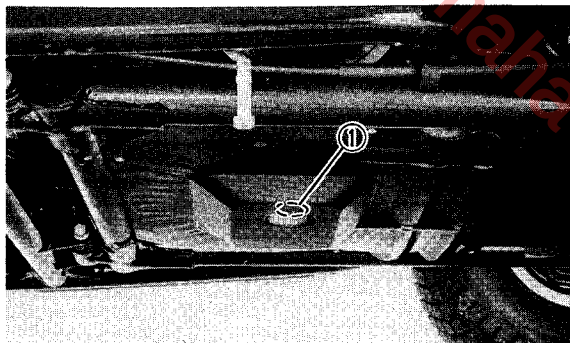
1.1 L (0.97 Imp qt, 1.16 US qt)

CAUTION:

Be sure no foreign material enters the crankcase.

Engine oil replacement

1. To drain the oil, warm up the engine for several minutes.
2. Place an oil pan under the engine.
3. Remove the drain bolt and drain the oil.

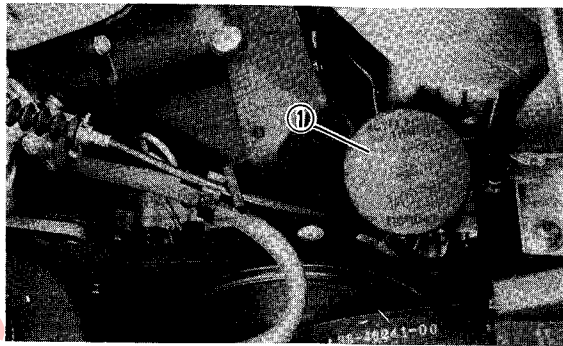


1. Drain bolt
4. Reinstall the drain bolt (make sure it is tight).

Drain bolt torque:

35 Nm (3.5 m·kg, 25 ft·lb)

5. Add oil through the oil filler hole.



1. Oil filler hole

Periodic oil change:

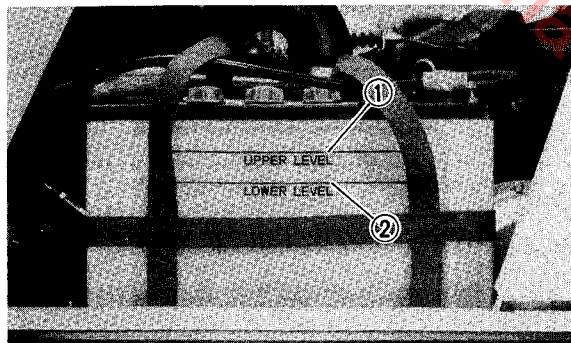
1.1 L (0.97 Imp qt, 1.16 US qt)

6. After replacement of engine oil, be sure to check for oil leaks. The oil warning indicator light should go off after the oil is filled.

Battery

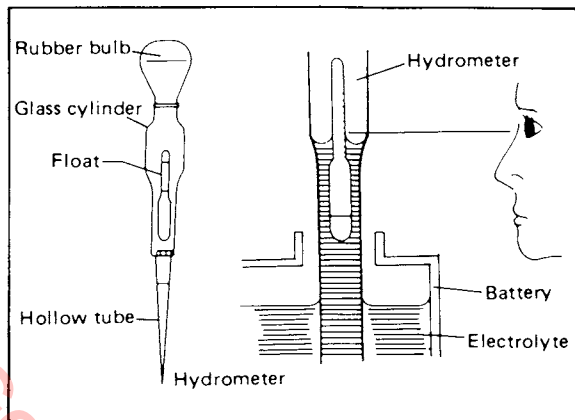
Check electrolyte level periodically and fill the battery with distilled water up to the specified level.

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.



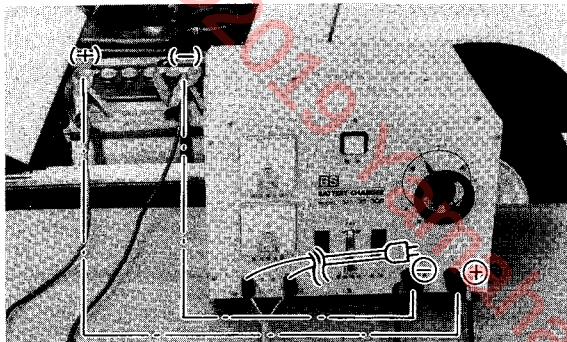
1. Upper level

2. Lower level



Battery charging

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

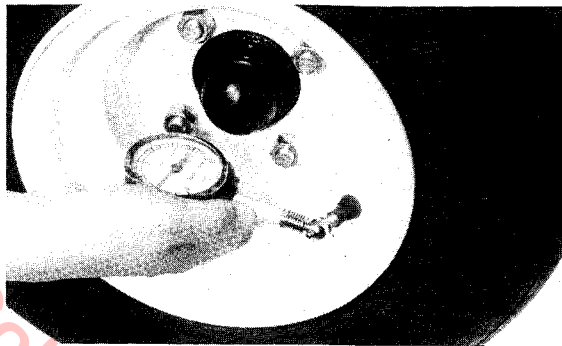


- e. Set the battery charger at 2.5A (when the battery is a 50-Ah type) and charge it until the specific gravity of the battery fluid is 1.26 at 26.7°C (80°F).

Tires

Check tire pressure. Tire pressure should be 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)



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

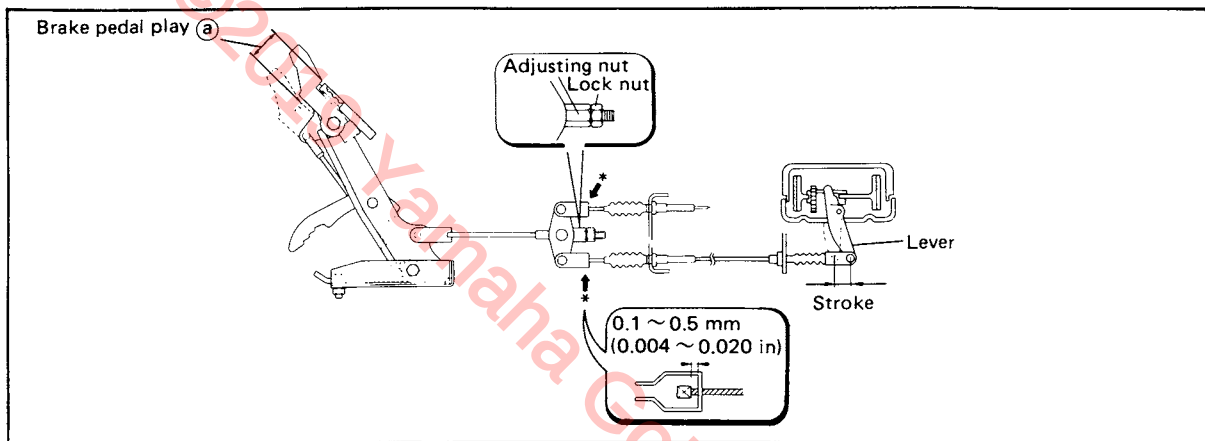
- 2) Check the brake pedal free play as illustrated.

Brake pedal free play ① :

25 ~ 30 mm (0.98 ~ 1.18 in)

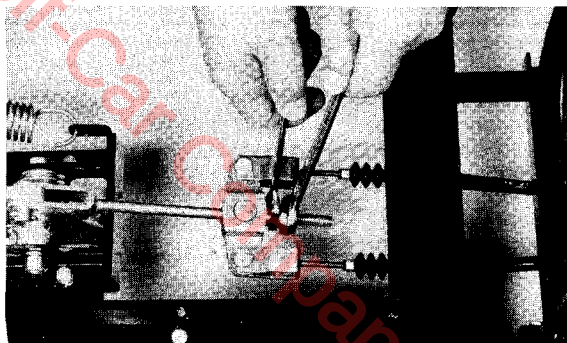
WARNING:

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

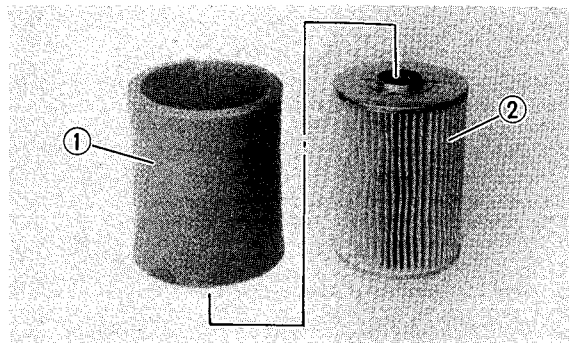


If this adjustment does not give smooth, even stopping without heavy pedal pressure, contact your Yamaha dealer before using your golf car again.

Air filter



The air filter element is made of oiled filtering paper which is covered with a polyurethane foam element cover.



1. Element cover

2. Air filter element

a. Element cover

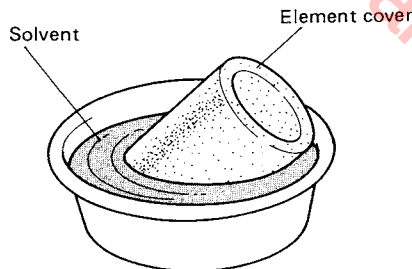
By frequently washing the element cover, the air filter element life can be prolonged.

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.

1



2



b. Air filter element assy

Replace the air filter 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 filter element with compressed air or wash with solvent. The oil will be removed and the engine will be damaged.

c. Air filter case grommet

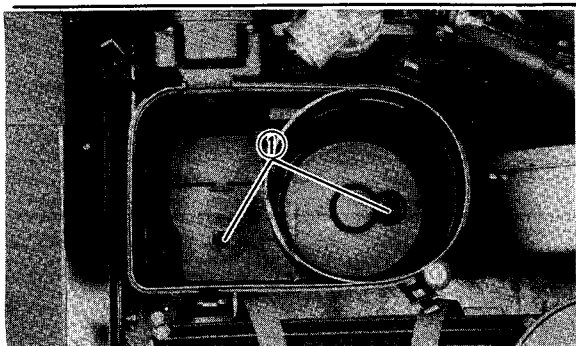
To remove the sand and grass collecting in the filter case, remove the grommet from the case so the opening can be used as a drain hole for cleaning.

NOTE: _____

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

CAUTION: _____

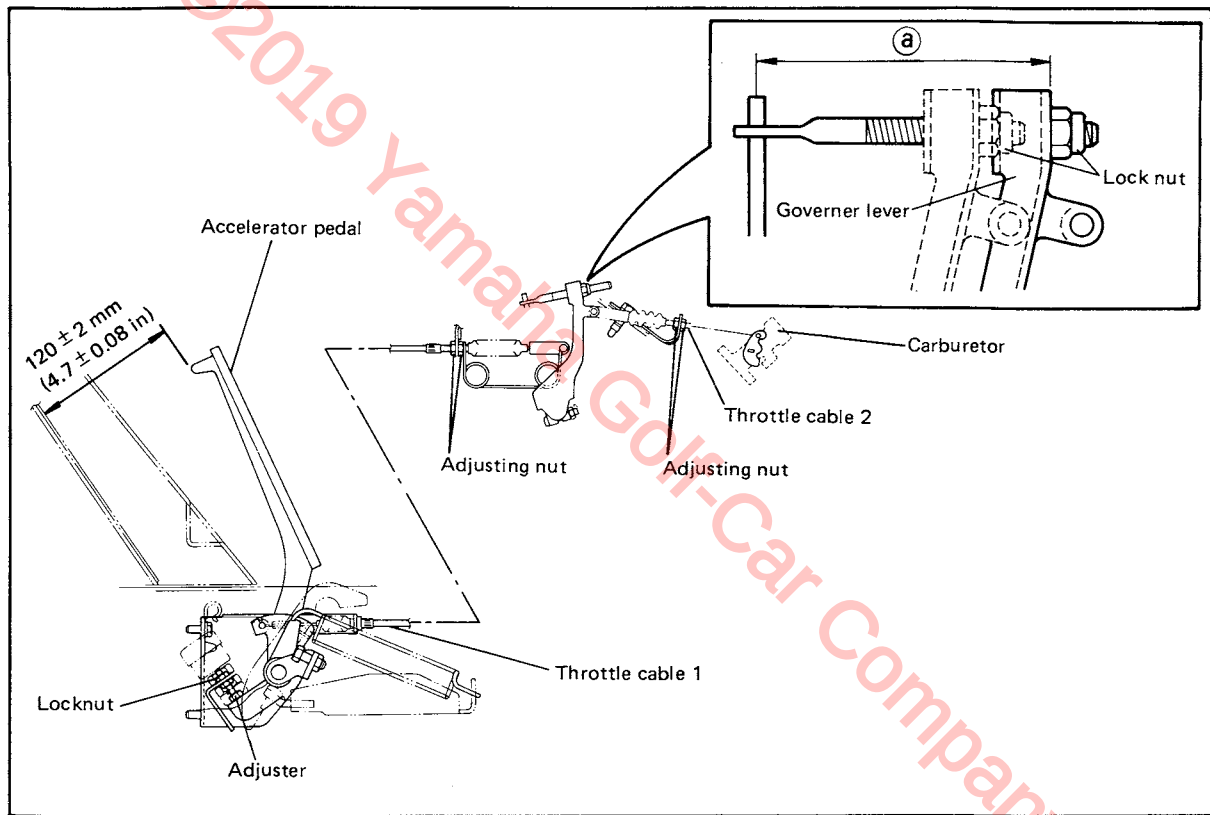
Don't forget installing this grommet; otherwise, resistance to air flow will decrease, thus adversely affecting engine performance.



1. Grommet

Throttle wire adjustment

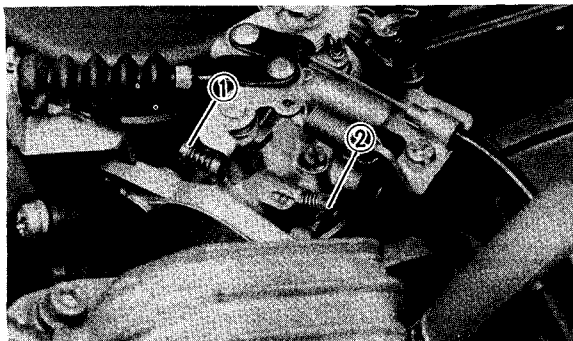
1. Turn the main switch to "OFF".
2. Block the wheel with wheel stoppers.
3. Remove the rear cowl.
Refer to page 51.
4. Pedal height adjustment
 - a. Loosen the lock nut.
 - b. By turning the adjuster clockwise or counterclockwise, adjust the accelerator pedal position.
 - c. Secure the lock nut.
5. Throttle cable 2 adjustment.
 - a. Swing the governor lever counter-clockwise until it stops completely.
 - b. While keeping the lever at this position, check that the throttle valve in the carburetor is fully open.
 - c. If not, adjust the throttle cable 2 by turning the adjusting nuts in or out.



6. Throttle cable 1 adjustment

- a. Screw out the locknut in the governor lever to make longest distance ①.
- b. Depress the accelerator pedal to limit.
- c. While keeping the pedal at this position, check that the throttle valve in the carburetor is fully open.
- d. If not, adjust the throttle cable 1 by turning the adjusting nuts in or out.
- e. Adjust the speed limiter to initial setting.

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.

Number of turns out of pilot screw (PS):
1-1/2 turn out

NOTE:

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

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 (PS) is 1-1/2 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

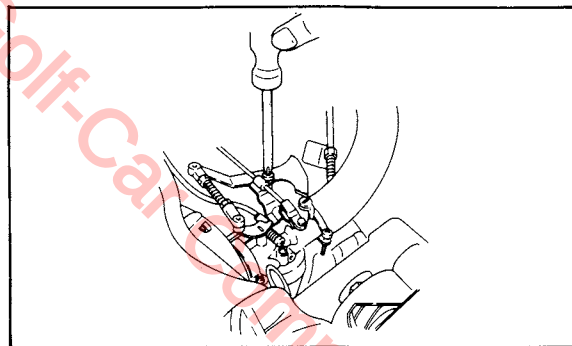
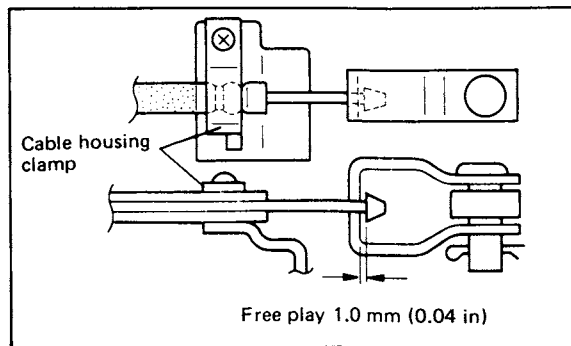
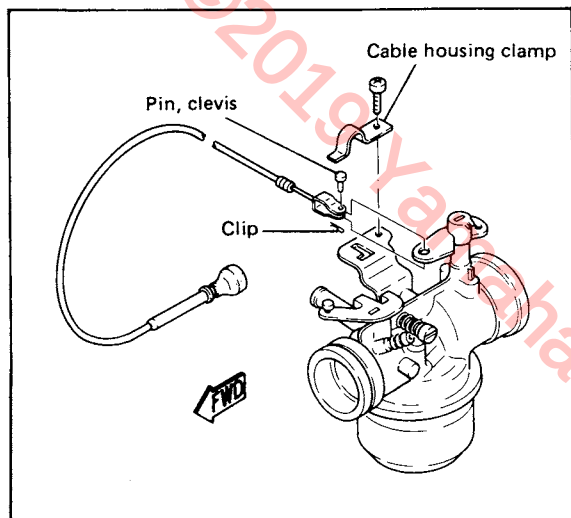
NOTE:

The J38 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

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.



Engine bracket tensioner

Check to see that the gap between the damper and rear arm bracket is 2 mm (0.08 in).

Standard gap between damper and rear arm bracket: 2 mm (0.08 in)

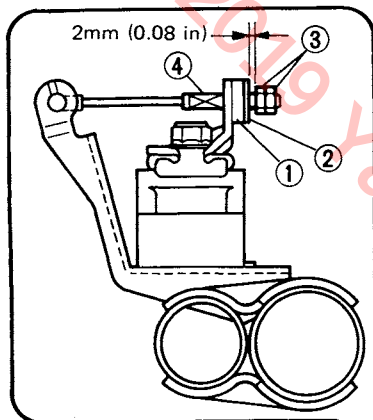
CAUTION:

- 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.

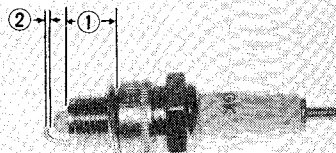


- 1. Damper
- 2. Plain washer
- 3. Lock nut
- 4. Tensioner

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: B5ES (NGK)



1. Spark plug reach
2. Spark plug gap

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: 19.0 mm (0.75 in)

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

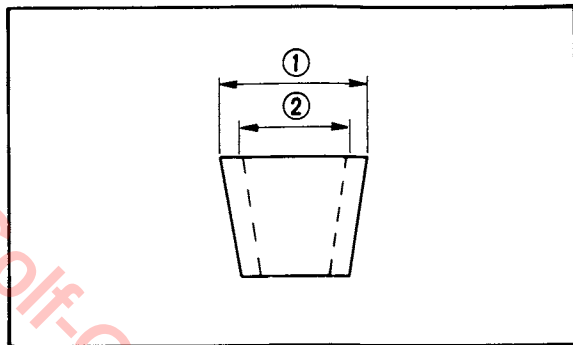
Spark plug gap:
0.7 ~ 0.8 mm (0.028 ~ 0.031 in)

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:
20 Nm (2.0 m·kg, 14 ft·lb)

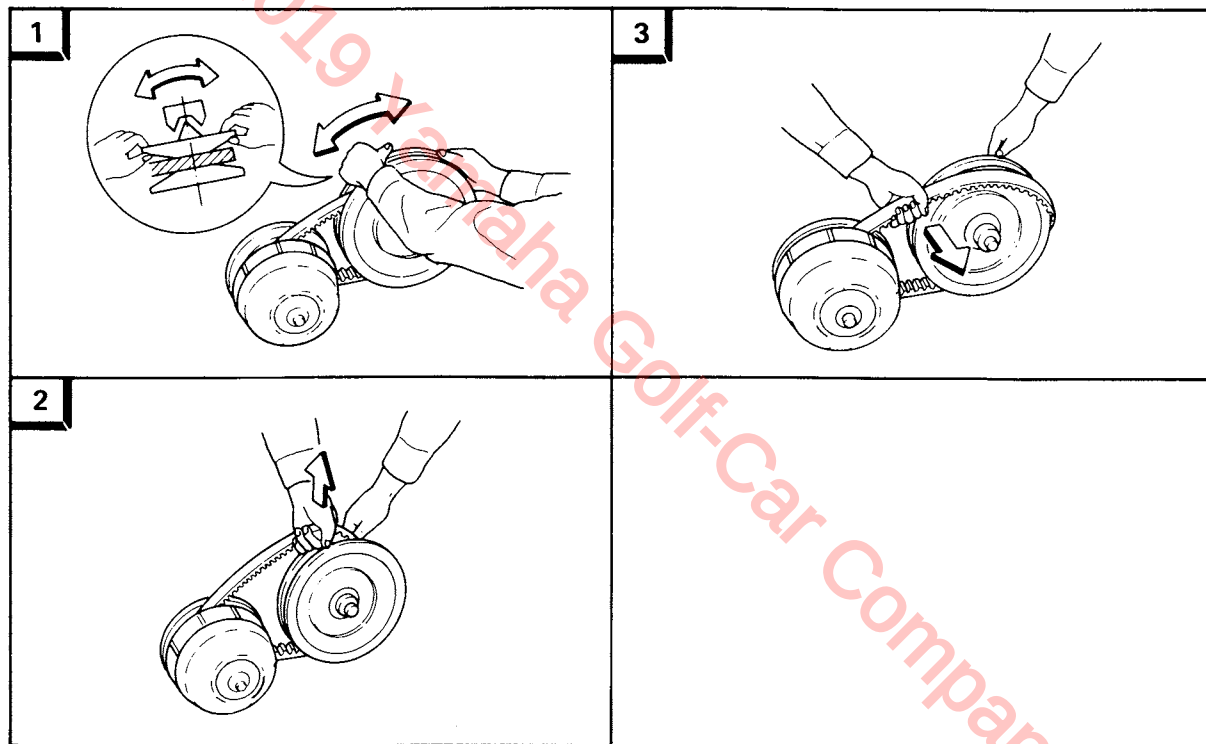
Clutch belt

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

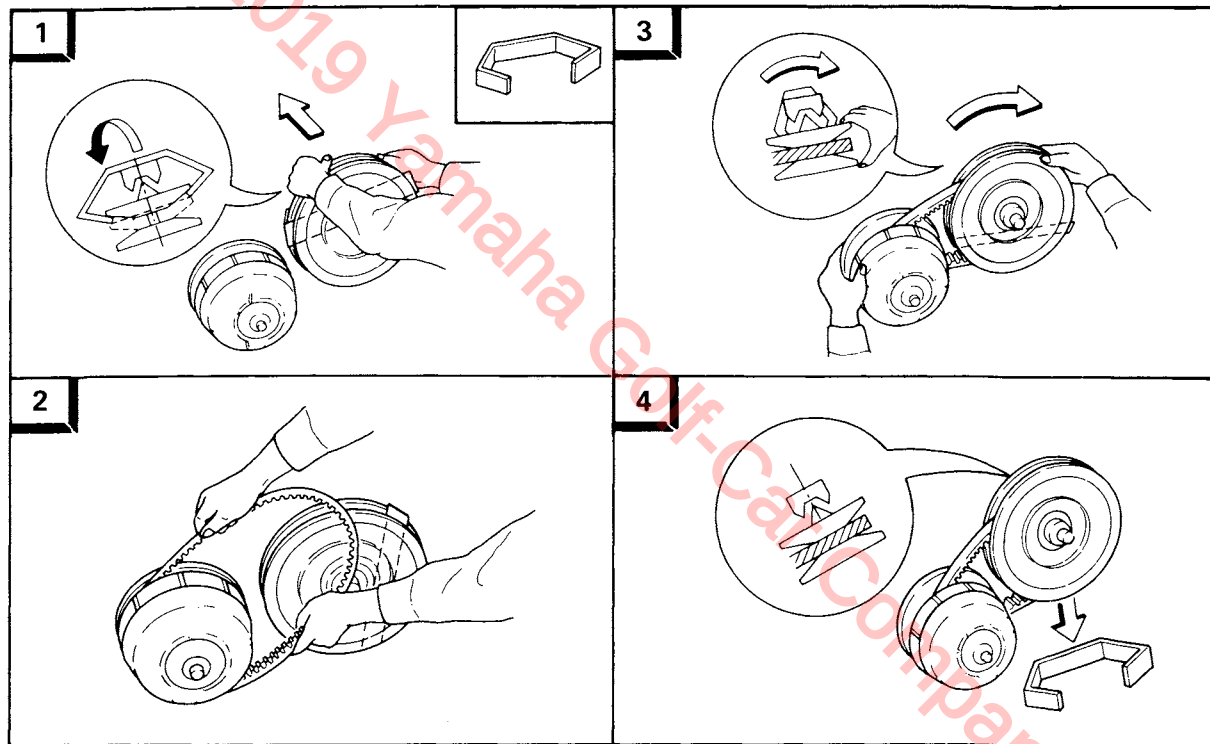


1. New: 31.0 mm (1.22 in)
2. Wear limit: 27 mm (1.06 in)

How to remove the V-belt



How to install the V-belt



Starter generator belt

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



- 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.

Starter-generator belt tension:

New belt (preset tension)

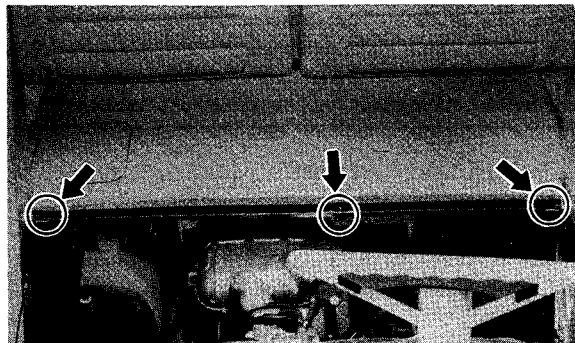
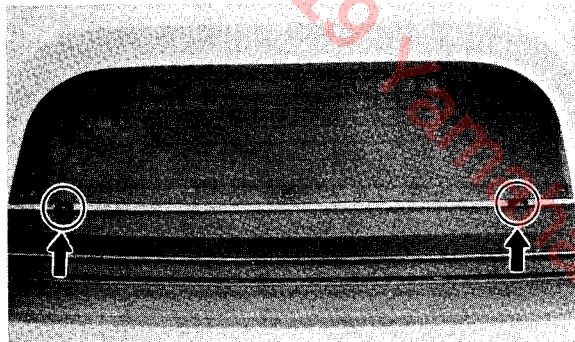
8 mm/10 kg (0.31 in/22.05 lb)

Normal

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

Gear box oil

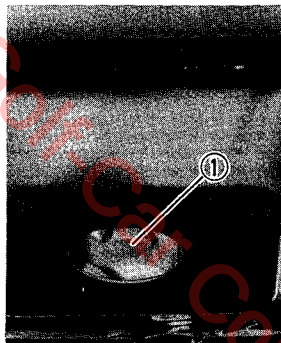
Remove the rear cowl.



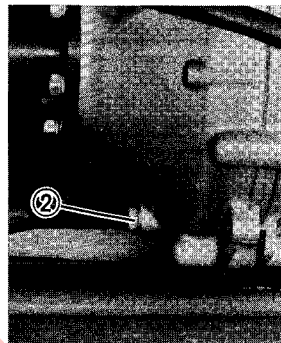
Check the oil level using the level plug. Add oil if necessary.

Drain the gear box and refill it at least once every 2 years.

Recommended oil: SAE 90 gear oil
Capacity: 800 cm³ (0.70 Imp qt,
0.85 US qt)



1. Drain bolt



1. Oil level plug

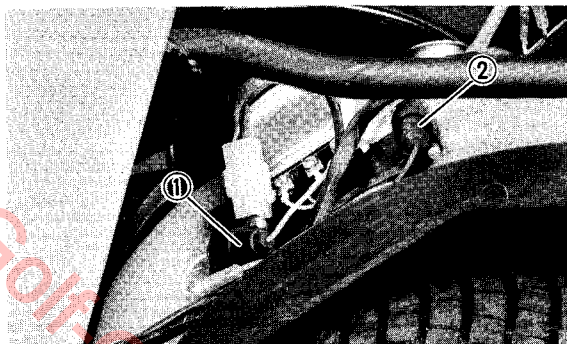


TROUBLESHOOTING

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.

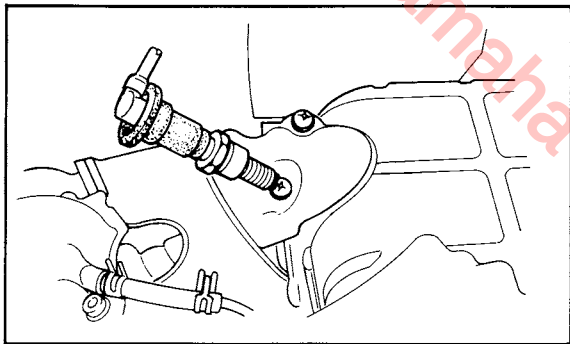
TROUBLESHOOTING PROCEDURE

- 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.



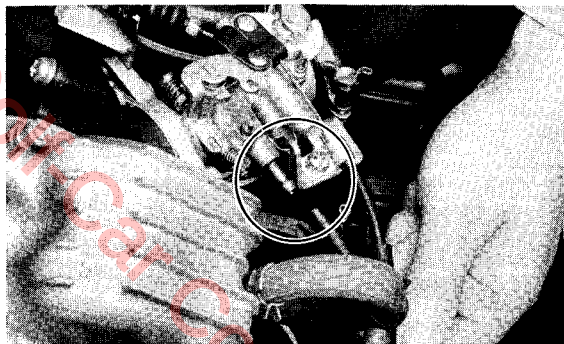
WARNING:

- To prevent **FIRE HAZARDS** be sure fuel is not present in the spark plug area.
- To prevent **FIRE HAZARDS** be sure to place the spark plug as far way as possible

from the spark plug hole and carburetor area.

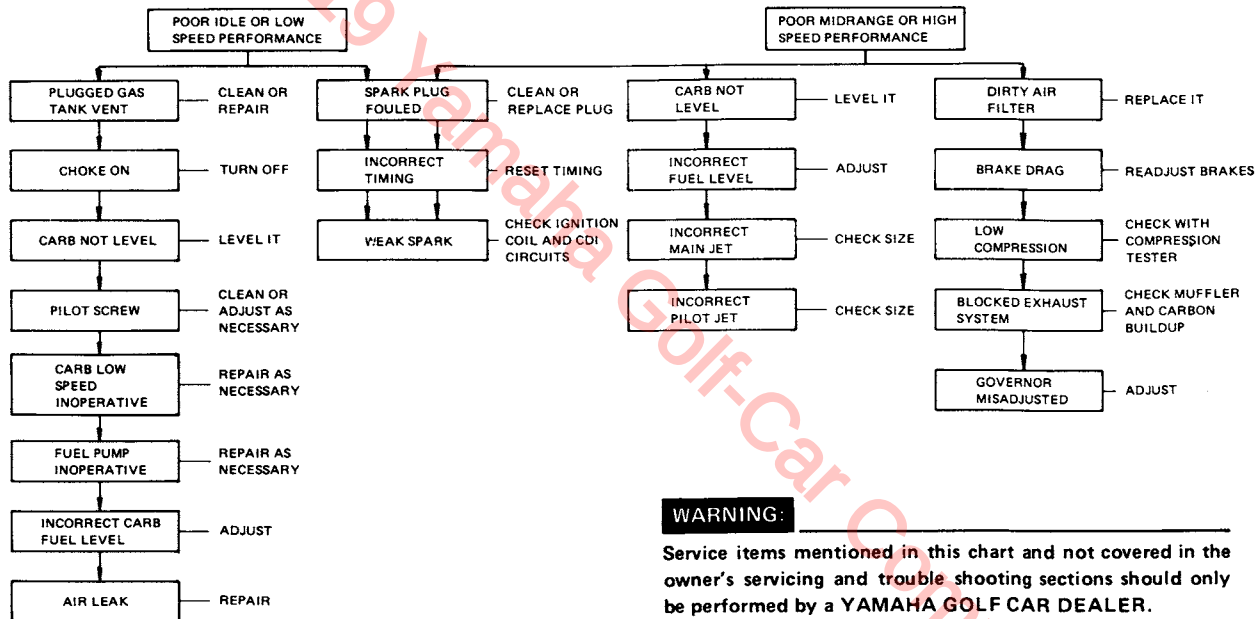
- To prevent **ELECTRIC SHOCK** do not hold spark plug lead with hand while testing.

- 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.

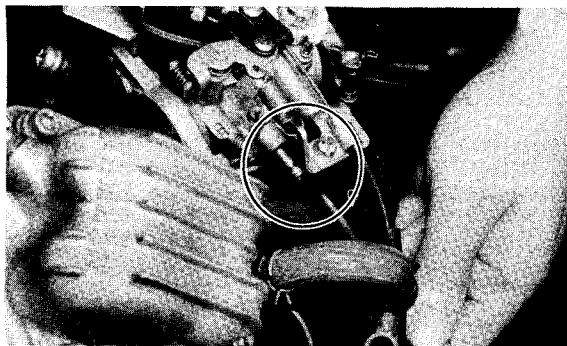
STORAGE PREPARATION

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.



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 11 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 moments after first being started.

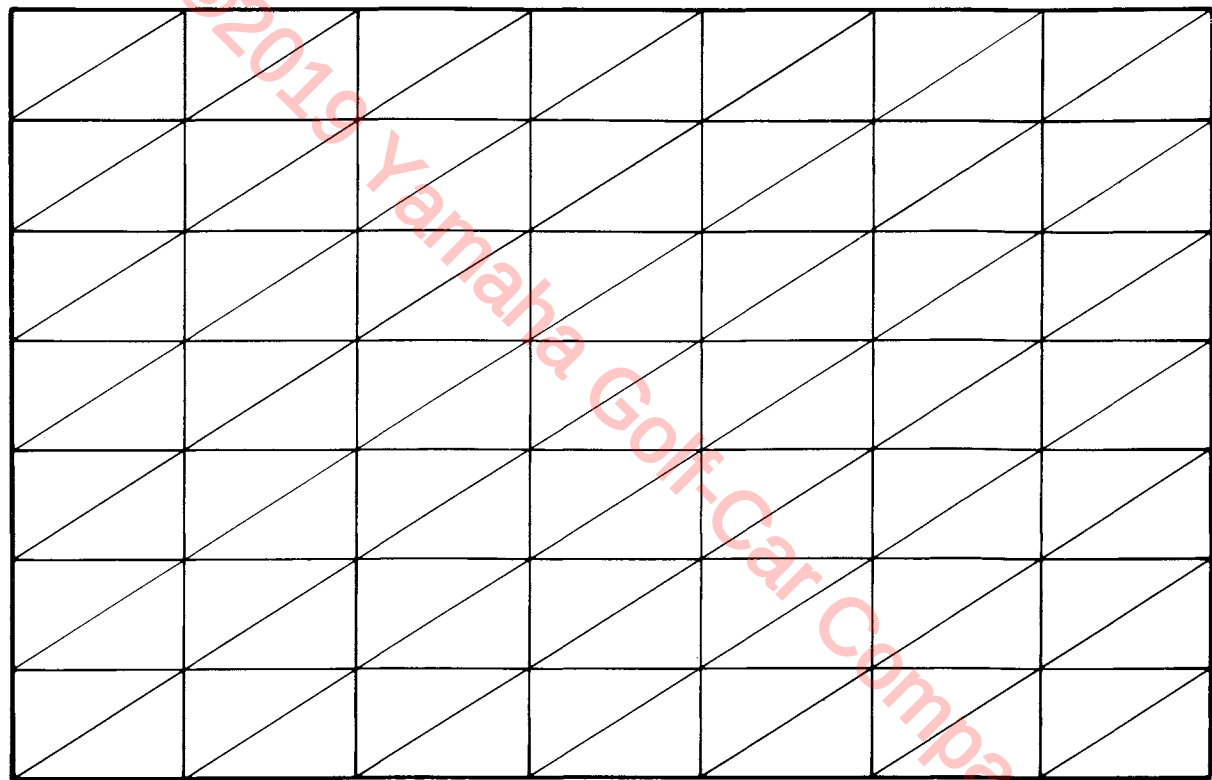
MAINTENANCE CHECK LIST

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

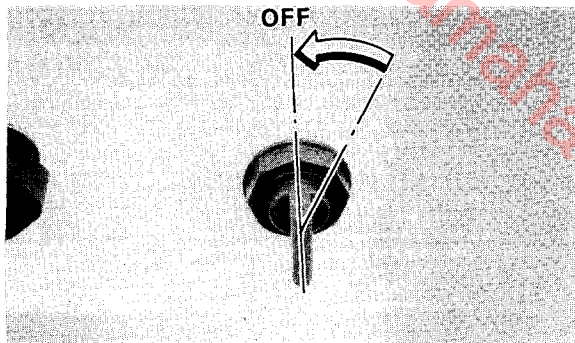
Record the date and, if necessary, the problem code:



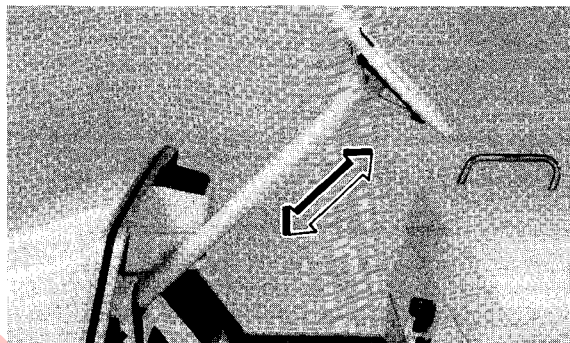
DAILY CHECK (Procedure)

NOTE: _____

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



a. Check the steering mechanism free play.



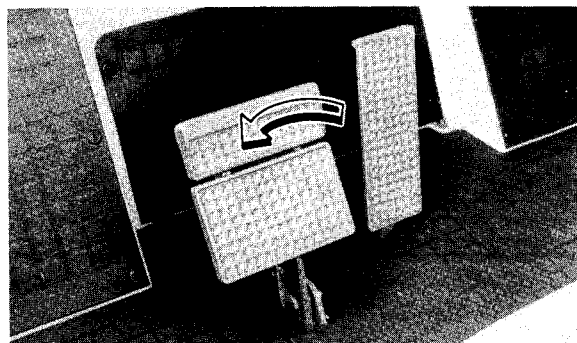
b. Check the steering mechanism movement.



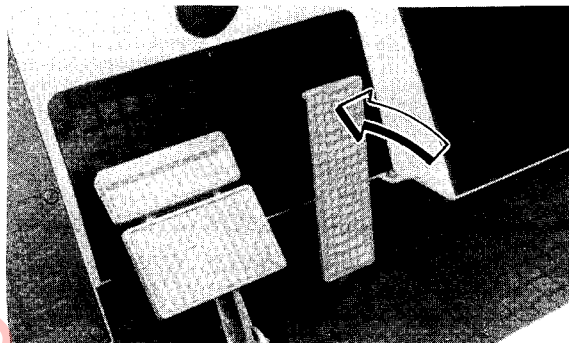
c. Check brake pedal movement.



d. Check parking brake operation.



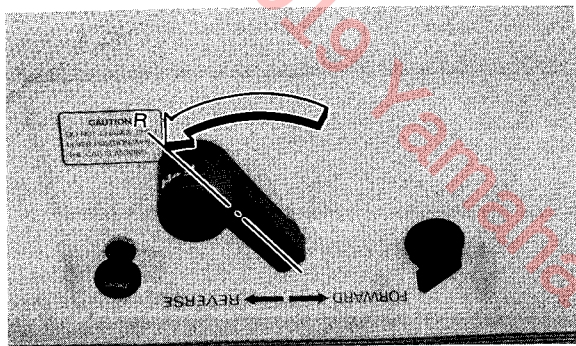
e. Check accelerator pedal operation.



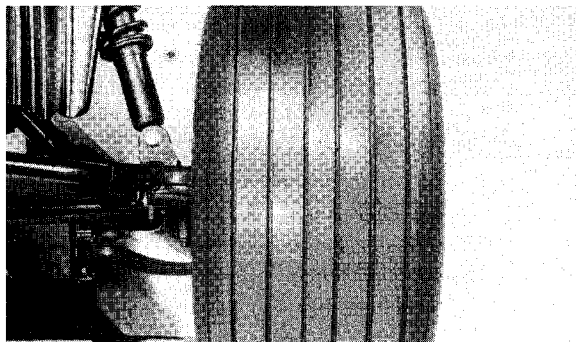
f. Check the choke wire movement.



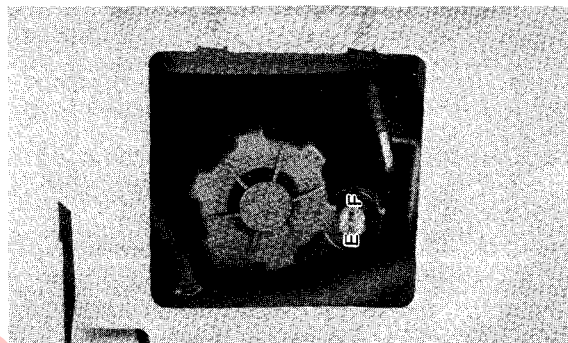
- g. Check the back-up buzzer keep at the "REVERSE" position.



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



- i. Check the fuel level.



Open the seat for the following checks.

- j. Check the oil level.



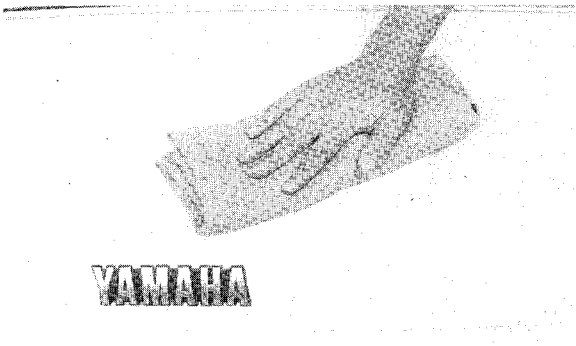
k. Check the battery fluid level.



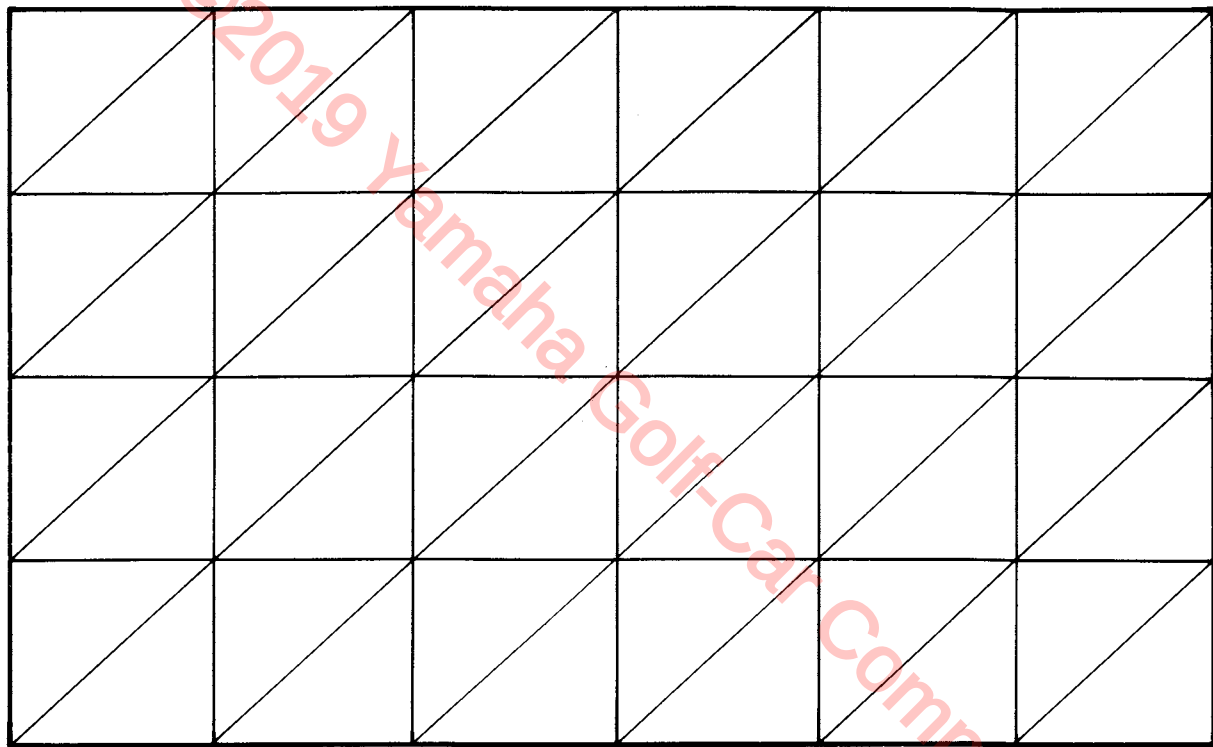
m. Check the feel of the car while driving to the line.

n. Installation of golf bag securing device.

l. Clean the seats and cowl if they're dirty.



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



— MEMO —

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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)	2,332 x 1,116 x 1,175 mm (91,8 x 43,9 x 46,3 in)
Dry weight	275 kg (606 lb)
Turning radius	2,900 mm (114 in)
Hill climbing ability	50% or more, depending on surface
Lubrication system	Wet sump
Engine oil capacity	1.1 L (0.97 Imp qt, 1.16 US qt)
Oil required	SAE 10W30 type SE or SF motor oil
Fuel tank capacity	24.0 L (5.3 Imp gal, 6.3 US gal)
Fuel required	Unleaded regular gasoline only
Ignition system	TCI
Spark plug type	B5ES (NGK)
Spark plug gap	0.7 ~ 0.8 mm (0.028 ~ 0.031 in)
Transmission system	Automatic variable-pitch V-belt transmission, Double reduction helical gear 13.65 : 1
Brakes	Mechanical brake linkage to individual drum brakes on each rear wheel with self-adjusting brake shoe. Parking brake with automatic release.

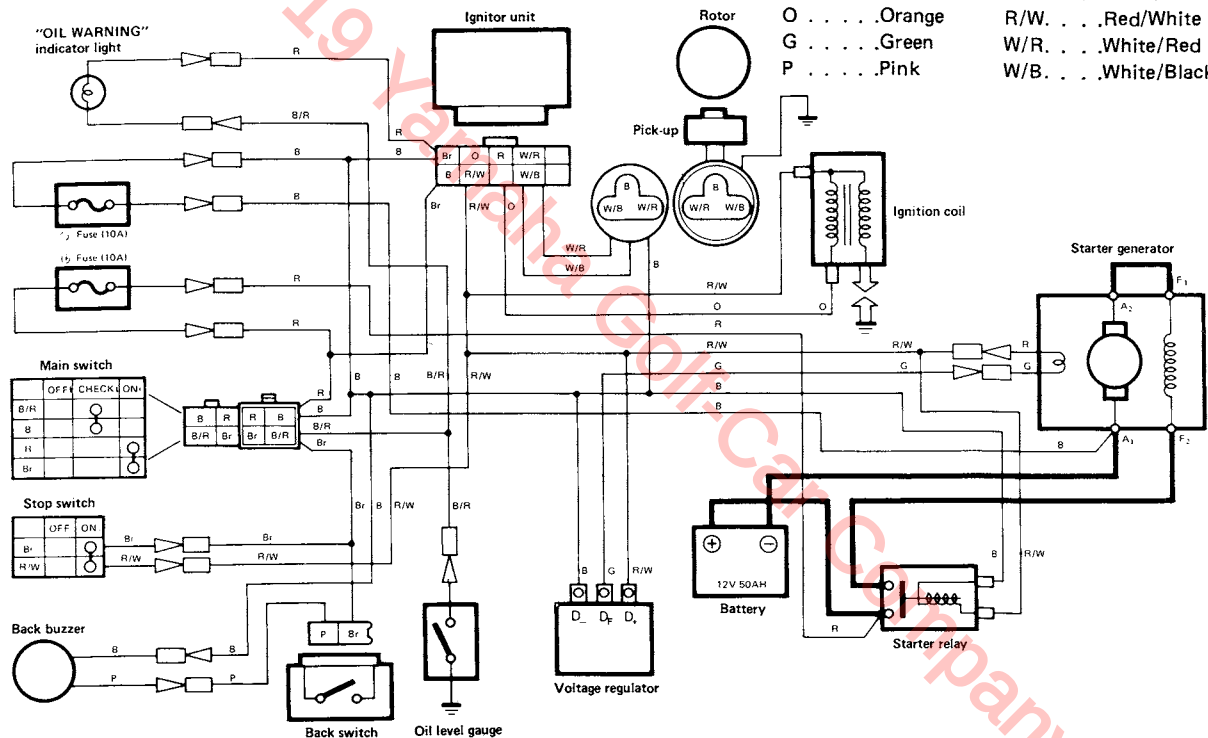
ITEMS	DESCRIPTION
Tire type	18 x 8.50 – 8.00 Tubeless – 4 ply rating
Tire pressure	0.8 kg/cm ² (11 psi)
Maximum loading limit	250 kg (550 lb)
Battery	Group 24, minimum 48 amp. hour (Note: The positive terminal must be in the top right corner of the battery top to allow proper installation.)

WIRING DIAGRAM

COLOR CODE

RRed
BBlack
OOrange
GGreen
PPink

BrBrown
B/RBlack/Red
R/W . . .Red/White
W/R . . .White/Red
W/B . . .White/Black



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 help you make 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 a 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 a 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 Avenue

P.O. Box 6555

Cypress. California 90630

Attn: Warranty Department

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YAMAHA
GENUINE
Parts & Accessories

01/10/01
1PC - G2A O/M

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Cypress, California

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