



## OWNER'S / OPERATOR'S MANUAL



**READ THIS MANUAL CAREFULLY!**  
It contains important safety information.

# YDRA

## 4 STROKE GOLF CAR

 **WARNING**

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

YAMAHA

LIT-CALIF-65-01

## INTRODUCTION

Congratulations on your purchase of a Yamaha golf car. This manual contains information you will need for proper operation, maintenance, and care of your golf car. A thorough understanding of these simple instructions will help you to obtain maximum enjoyment from your new Yamaha.

If you have any questions about the operation or maintenance of your golf car, please consult a Yamaha dealer.

**Yamaha Motor Corporation USA**

### **YDRA OWNER'S/OPERATOR'S MANUAL**

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USA**

**1st Edition**

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**Printed in U.S.A.**

**LIT-19626-11-16**



JW8-F8199-31

# IMPORTANT MANUAL INFORMATION

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



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

## **WARNING**

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A **WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

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## **NOTICE**

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A **NOTICE** indicates special precautions that must be taken to avoid damage to the vehicle or other property.

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## **TIP**

A **TIP** provides key information to make procedures easier or clearer.

## **TIP**

Yamaha continually seeks advancements in product design and quality; therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your golf car and this manual. If you have any questions concerning this manual, please consult your Yamaha dealer.

## **WARNING**

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Read and understand this manual completely before operating your golf car. This manual should be considered a permanent part of your golf car and should remain with the car when resold.

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# WARRANTY

## LIMITED 4-YEAR GOLF CAR LIMITED WARRANTY

1

Yamaha Golf-Car Company hereby warrants that any new YDRA gas or YDRE electric Yamaha golf car purchased from an authorized Yamaha golf car dealer in the United States will be free from defects in material and workmanship for FOUR years from date of purchase, subject to the stated limitations.

**DURING THE PERIOD OF WARRANTY** any authorized Yamaha golf car dealer will, free of charge, repair or replace, at Yamaha's option, any part adjudged defective by Yamaha due to faulty workmanship or material from the factory. Parts used in warranty repairs will be warranted for the balance of the vehicle's warranty period. All parts replaced under warranty become property of Yamaha Golf-Car Company.

**GENERAL EXCLUSIONS** from this warranty shall include any failures caused by:

- Abnormal strain, neglect, or abuse, including lack of proper maintenance, and use contrary to the Owner's/Operator's Manual instructions.
- Accident or collision damage.
- Installation of parts or accessories that are not original equipment.
- Fading, rust, or deterioration due to exposure or ordinary wear and tear.
- Modifications or alterations that affect the car's condition, operation, performance, or durability, or which makes the car serve a purpose other than use as a two-person, golf course vehicle.
- Damage due to improper transportation.
- Acts of God, i.e. lightning, hail damage, flooding, fire, etc.

### WARRANTY COVERAGE:

- Year 1:** The first year of warranty shall cover the entire vehicle except for the Specific Exclusions below.
- Year 2:** The second year exclusions are the YDRA battery, body parts, seats, mats, bumper assembly, bag carrier, scorecard holder, trim, and the Specific Exclusions below.
- Year 3:** The third year exclusions include the second year exclusions, plus the control cables and electrical system (except electronic speed controller, battery charger, and electric motor), and the Specific Exclusions below.
- Year 4:** The fourth year of the warranty covers only the electric motor, speed controller, battery charger, and transaxle on the YDRE and the engine, clutch system (except drive belt), and transaxle on the YDRA.

**SPECIFIC EXCLUSIONS:** Specific exclusions from this warranty shall include the following:

- Electric car batteries, which are covered under a separate warranty.
- Any parts replaced due to normal wear or routine maintenance, including oil and air filter elements, tire wear, spark plugs, starter and clutch drive belts.

- Any charges incurred in transporting a golf car or charger to and from an authorized Yamaha golf car dealer for service or in performing field service are also excluded from this warranty.
- Gasoline powered golf car starting batteries on vehicles equipped with a golf course GPS device, or any other device with a parasitic current draw, unless the vehicle is equipped from the factory with an optional deep cycle starting battery.

**THE CUSTOMER'S RESPONSIBILITY** under this warranty shall be to:

- Operate and maintain the golf car and charger as specified in the appropriate Owner's/Operator's Manual;
- Give notice to an authorized Yamaha golf car dealer of any and all apparent defects within ten (10) days after discovery, and make the vehicle or charger available at that time for inspection and repairs by the dealer's authorized representative.

**WARRANTY TRANSFER:** Any transfer of warranty must take place within the first three years of the original in-service date of the vehicle. The vehicle must be re-registered by an authorized Yamaha Golf-Car Dealer within 30 days of transfer. A fee may be charged for the transfer of the warranty.

**YAMAHA GOLF-CAR COMPANY MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS AND TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY YAMAHA GOLF-CAR COMPANY AND EXCLUDED FROM THIS WARRANTY.**

**SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. ALSO EXCLUDED FROM THIS WARRANTY IS ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING LOSS OF USE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.**

**THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY, FROM STATE TO STATE.**

Yamaha Motor Corporation, USA,  
KENNESAW, GEORGIA 30144

EFFECTIVE DATE: 6/1/15

LIT-13710-01-15

# WARRANTY

## CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT YOUR WARRANTY RIGHTS AND OBLIGATIONS

1

The California Air Resources Board and Yamaha Golf-Car Company are pleased to explain the emissions control system warranty on your 2010 or later small off-road engine (SORE) vehicle. In California, new SORE vehicles must be designed, built and equipped to meet the State's stringent anti-smog standards. Yamaha Golf-Car Company must warrant the EECS on your SORE vehicle for the period of time listed below provided there has been no abuse, neglect or improper maintenance of your SORE vehicle.

Your EECS may include parts such as the carburetor, fuel-injection system, the ignition system, catalytic converter, fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated emission-related components.

Where a warrantable condition exists, Yamaha Golf-Car Company will repair your SORE vehicle at no cost to you including diagnosis, parts and labor.

### MANUFACTURER'S WARRANTY COVERAGE:

This emissions control system is warranted for two years. If any emission-related part on your equipment is defective, the part will be repaired or replaced by Yamaha Golf-Car Company.

### OWNER'S WARRANTY RESPONSIBILITIES:

As the SORE vehicle owner, you are responsible for performance of the required maintenance listed in your owner's manual. Yamaha Golf-Car Company recommends that you retain all receipts covering maintenance on your SORE vehicle, but Yamaha Golf-Car Company cannot deny warranty solely for the lack of receipts.

As the SORE vehicle owner, you should however be aware that Yamaha Golf-Car Company may deny you warranty coverage if your SORE vehicle or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.

You are responsible for presenting your SORE vehicle to Yamaha Golf-Car Company's distribution center or service center as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have a question regarding your warranty coverage, you should contact Yamaha Customer Relations at 800-962-7926.

### GENERAL EMISSIONS WARRANTY COVERAGE:

Yamaha Golf-Car Company warrants to the ultimate purchaser and each subsequent purchaser that the SORE vehicle is:

Designed, built and equipped so as to conform with all applicable regulations; and

Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to that part as described in Yamaha Golf-Car Company's application for certification.

The warranty period begins on the date the SORE vehicle is delivered to an ultimate purchaser or first placed into service. The warranty period is two years.

Subject to certain conditions and exclusions as stated below, the warranty on emission-related parts is as follows:

1. Any warranted part that is not scheduled for replacement as required maintenance in the written instructions supplied, is warranted for the warranty period stated above. If the part fails during the period of warranty coverage, the part will be repaired or replaced by Yamaha Golf-Car Company according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period.
2. Any warranted part that is scheduled only for regular inspection in the written instructions supplied is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.
3. Any warranted part that is scheduled for replacement as required maintenance in the written instructions supplied is warranted for the period of time before the first scheduled replacement date for that part. If the part fails before the first scheduled replacement, the part will be repaired or replaced by Yamaha Golf-Car Company according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.
4. Repair or replacement of any warranted part under the warranty provisions herein must be performed at a warranty station at no charge to the owner.
5. Notwithstanding the provisions herein, warranty services or repairs will be provided at all of our distribution centers that are franchised to service the subject engines or equipment.
6. The SORE vehicle owner will not be charged for diagnostic labor that is directly associated with diagnosis of a defective, emission-related warranted part, provided that such diagnostic work is performed at a warranty station.
7. Yamaha Golf-Car Company is liable for damages to other engine or equipment components proximately caused by a failure under warranty of any warranted part.

# WARRANTY

1

8. Throughout the SORE vehicle warranty period stated above, Yamaha Golf-Car Company will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
9. Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of Yamaha Golf-Car Company.
10. Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the ultimate purchaser will be grounds for disallowing a warranty claims. Yamaha Golf-Car Company will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

## WARRANTED PARTS:

The repair or replacement of any warranted part otherwise eligible for warranty coverage may be excluded from such warranty coverage if Yamaha Golf-Car Company demonstrates that the SORE vehicle has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for repair or replacement of the part. That notwithstanding, any adjustment of a component that has a factory installed, and properly operating, adjustment limiting device is still eligible for warranty coverage. The following emission warranty parts are covered:

1. Fuel Tank
2. Fuel Cap
3. Fuel Line
4. Fuel Line Fittings
5. Clamps
6. Control Valves
7. Control Solenoids
8. Electronic Controls
9. Control Cables
10. Control Linkages
11. Vapor Hoses
12. Carbon Cannister
13. Cannister Mounting Brackets

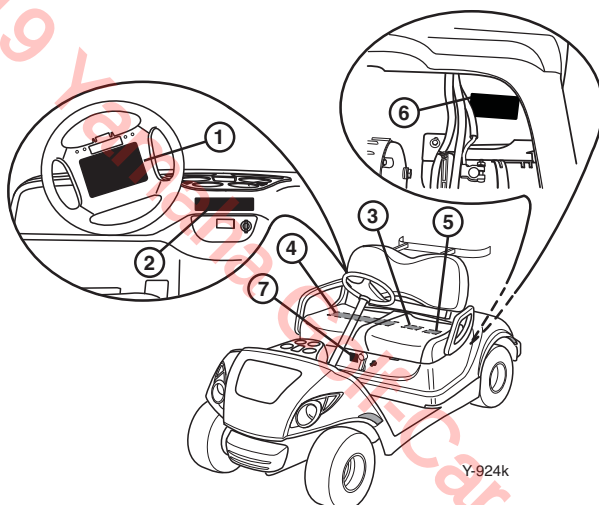
# IMPORTANT LABELS

## ⚠ SAFETY AND INSTRUCTION LABELS

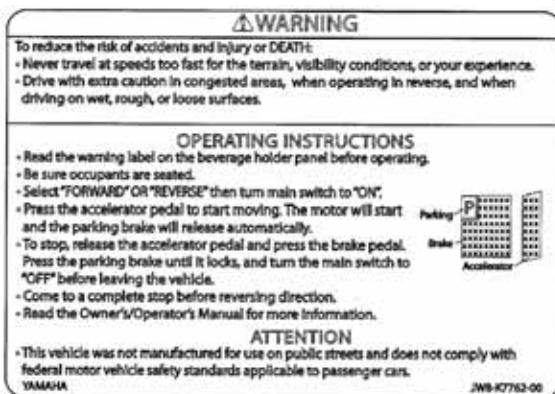
### ⚠ WARNING

Please read the following labels carefully before operating your golf car, and promptly replace any labels which become damaged or removed. Death or serious personal injury can result from failing to read and comply with the safety instruction labels.

2



①



# IMPORTANT LABELS

## ⚠ WARNING

To reduce the risk of accidents and injury or DEATH:

- Read the label located on the steering wheel before operation.
- Operate only when authorized and only in designated areas.
- Operate from driver's seat only.
- This vehicle is restricted to 2 occupants per bench seat.
- Do not start vehicle until all occupants are seated.
- Remain fully seated and hold on when in motion.
- Keep entire body inside vehicle.
- Drive slowly in turns.

YAMAHA

OFF ON  
▶ ◀

JW8-K7768-30

③

This spark ignition system meets all requirements of the Canadian Interference Causing Equipment Regulations.  
Ce système d'allumage par étincelle de véhicule respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

YAMAHA

JNE-H2377-00

Y-1606

④

|  | <h3>⚠ WARNING</h3> <p><b>GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. A fire or explosion could cause SEVERE INJURY or DEATH.</b></p> <ul style="list-style-type: none"> <li>• Keep heat, sparks, and open flame away from fuel tank and fuel lines.</li> <li>• Do not add fuel while engine is running or hot.</li> <li>• Do not modify fuel system.</li> <li>• Services should be performed by dealer or qualified personnel.</li> </ul> <p>YAMAHA</p> | <h3>⚠ AVERTISSEMENT</h3> <p><b>L'ESSENCE EST HAUTEMENT INFLAMMABLE ET EXPLOSIVE. Un incendie ou une explosion peuvent provoquer de GRAVES BLESSURES ou la MORT.</b></p> <ul style="list-style-type: none"> <li>• Éloigner toute source de chaleur, d'étincelles et de flammes nues du réservoir et des conduites de carburant.</li> <li>• Ne pas ajouter de carburant pendant que le moteur tourne ou qu'il est chaud.</li> <li>• Ne pas modifier le circuit d'alimentation.</li> <li>• Les révisions doivent être effectuées par le concessionnaire ou par du personnel qualifié.</li> </ul> <p>JW1-K6297-01</p> | <p>N432</p>  |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|

# IMPORTANT LABELS

⑤

YEAR OF CONSTRUCTION: 20XX  
YAMAHA MOTOR POWERED PRODUCTS CO., LTD.  
200-1 SAKAGAWA, KAKEGAWA, JAPAN  
MAX. BATTERY WEIGHT: XX kg

MODEL: YDRAX  
MAX. POWER: X.X KW  
DRY WEIGHT: XXX kg  
JXX-F4236-XX

Y-1607c

2

⑥

**EMISSION CONTROL INFORMATION**  
**YAMAHA MOTOR CO.,LTD.**

**THIS EQUIPMENT CONFORMS TO 20XX CALIFORNIA EVPI/EXH EMISSION REGULATIONS AND MEETS U.S. EPA EVAP STANDARDS FOR SMALL OFF-ROAD ENGINES. THIS ENGINE CONFORMS TO PHASE 3 U.S. EPA REGULATIONS FOR SMALL OFF-ROAD ENGINES.**

EFT:BYMKS.3572EB

|                                   |                              |
|-----------------------------------|------------------------------|
| DISPLACEMENT : 357cc              | EMISSION CONTROL SYSTEM : EM |
| EVAPORATIVE CODE CARB : CCYMD33C  |                              |
| EVAPORATIVE CODE EPA:BYMDPNHEQ33C |                              |
| ENGINE OIL : SAE 10W-30           |                              |
| SPARK PLUG GAP : .028-.031        |                              |

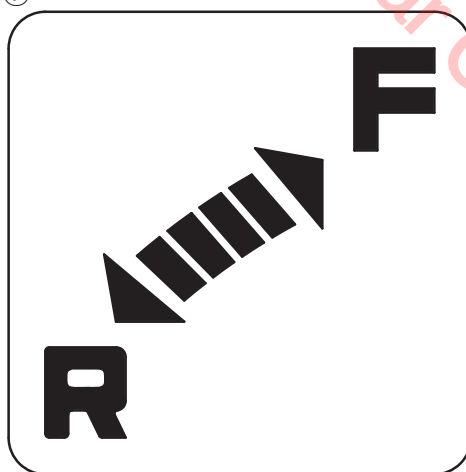
IGNITION TIMING : 27 BTDC  
NO OTHER ADJUSTMENTS NEEDED

The air index of this engine is 3

Note: The lower the Air Index, the less Pollution  
This engine is certified to be emissions compliant for the following use:  
[ ] Moderate (125 hours) [ ] Intermediate (250 hours) [X] Extended (1000 hours)  
Check owner's manual for further details. JWB-F179T-01

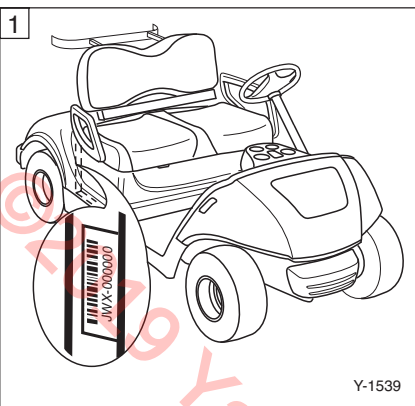
Y-1599c

⑦



Y-1610

# IMPORTANT LABELS

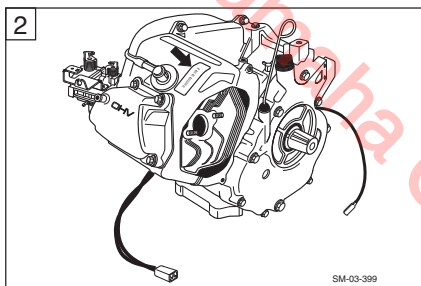


## GOLF CAR SERIAL NUMBER

The golf car serial number ① is identified in the location shown.

### TIP

The first three digits of the serial number are for model identification; the remaining digits are the unit production number. Keep a record of these numbers for reference when ordering parts from a Yamaha Golf-Car Company dealer.

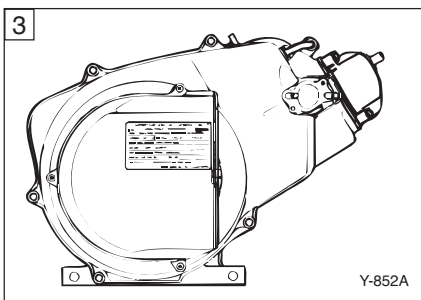


The engine serial number ② is affixed in the location shown.

### ③ Engine Information

| IMPORTANT ENGINE INFORMATION                                                                                                                                                               |  |                                   |  | YAMAHA |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------|--|--------|--|
| ENGINE FAMILY : *****                                                                                                                                                                      |  |                                   |  |        |  |
| REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.                                                                                                                    |  |                                   |  |        |  |
| DISPLACEMENT: ***** cm <sup>3</sup>                                                                                                                                                        |  | VALVE LASH(es): IN ***** EX ***** |  |        |  |
| IGNITION TIMING & ICE MIXTURE                                                                                                                                                              |  | NO OTHER ADJUSTMENTS NEEDED.      |  |        |  |
| IDLE SPEED: ***** rpm                                                                                                                                                                      |  | AT NO LOAD                        |  |        |  |
| FUEL: THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE.                                                                                                                            |  |                                   |  |        |  |
| ENGINE OIL: SAE 10W-30                                                                                                                                                                     |  | TYPE: SD                          |  |        |  |
| <small>THIS ENGINE MEETS ***** CALIFORNIA EMISSION REGULATIONS FOR OFF-ROAD ENGINES.<br/>           THIS ENGINE CONFORMS TO ***** U.S. EPA REGULATIONS FOR SMALL OFF-ROAD ENGINES.</small> |  |                                   |  |        |  |
| YAMAHA MOTOR CO., LTD.                                                                                                                                                                     |  |                                   |  |        |  |

Y-851a



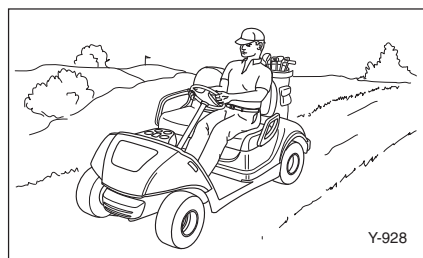


## OPERATOR SAFETY

Yamaha golf cars are designed to be simple to operate. However, be sure to observe the following to reduce the risk of serious injury or death due to loss of control and other hazards:

### BEFORE OPERATING THE GOLF CAR

- Read this Owner's/Operator's manual and all safety and instruction labels on the golf car before operating.
- Perform the pre-operation checks found in Section 6 of this manual.
- Only authorized people should drive the golf car, from the driver's side only, and only in designated areas.
- Do not allow more than two occupants per seat. This golf car is restricted to two occupants unless equipped with a rear seat.
- Do not operate the golf car while under the influence of alcohol or drugs; their effect on vision and judgment make operating a golf car dangerous.
- Do not operate the golf car on public streets, roads or highways unless allowed by law or the local regulating authority.



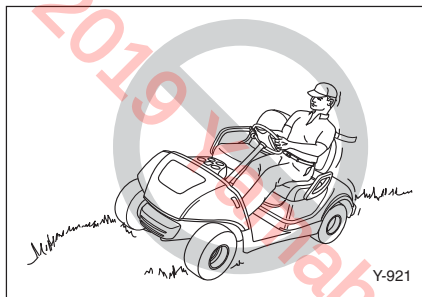
### WHILE OPERATING THE GOLF CAR

- Keep your entire body inside the golf car, remain seated and hold on when the car is in motion.
- Do not start the golf car until all occupants are seated.
- Keep your hands on the steering wheel and your eyes on the path ahead.

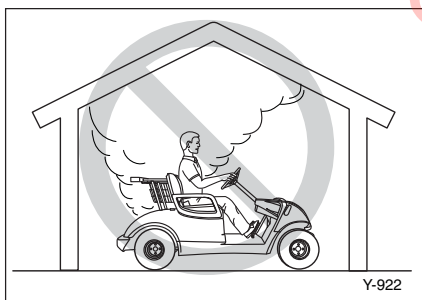


## OPERATOR SAFETY

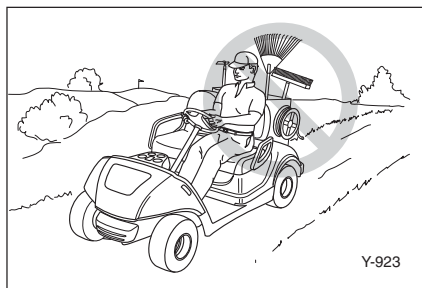
3



- Use extra care in congested areas or when backing up. Always back up slowly, and watch carefully.
- Avoid starting or stopping abruptly.
- Vary the speed of the golf car to match the terrain of the course.
- Avoid turning the steering wheel too sharply at higher speeds to avoid tipping or rolling the golf car.
- Always drive slowly straight up or straight down slopes – never at an angle to avoid tipping or rolling the golf car.



- Do not run the engine indoors. Exhaust gas is poisonous and could result in carbon monoxide poisoning.



- Do not make any modification or addition which affects capacity or safe operation, or make any changes not in accordance with the owner's/operator's manual.



## SAFETY CONSIDERATIONS

Like all machines, golf cars can cause injury if improperly used or maintained. This section contains broad safety practices required for safe golf car operation. Before golf cars are operated, golf course personnel should establish any additional safety practices that may be required for safe operation.

Experience has shown that golf cars are safe when operated in accordance with the safety warnings affixed to every golf car. This safe operation is enhanced when golf cars are used according to the safety rules and practices established to meet the terrain and conditions of the course they are used on.

The information contained here is intended for golf course personnel responsible for golf car safety. If you are responsible for the operation and maintenance of this golf car, we encourage you to implement this golf car safety program.

### DRIVER QUALIFICATIONS

Allow only authorized people to operate golf cars. It is recommended that only people who possess a valid motor vehicle driver's license be allowed to operate golf cars.

Place operation and safety instructions recommended by the golf car manufacturer, along with the golf course safety rules, in a conspicuous place near the golf car rental area or golf car pick-up area. It is also recommended that the following warning be posted in a conspicuous location:

#### WARNING

**Do not operate golf cars when under the influence of alcohol or drugs. Death or serious personal injury can result from failing to comply with the safety and warning instructions affixed to the golf car.**

### GOLF COURSE SAFETY SURVEY

Perform safety surveys regularly to identify hazardous areas where golf cars should not be operated.

### GOLF COURSE HAZARD PREVENTION

The following golf course hazards must be made safe:

- **Steep Grades.** Where steep grades exist, restrict golf cars to designated golf car pathways where possible. In addition, identify steep grades with a suitable warning like:

#### WARNING

**Descend steep grades slowly with foot on brake. Death or serious personal injury can result from failing to comply with the safety and warning instructions affixed to the golf car.**

- **Sharp Turns, Blind Corners, Bridge Approaches.** Chain or rope off these potentially hazardous areas or identify them with a suitable warning describing the nature of the hazard and the proper precautions to be taken to avoid the hazard.



## SAFETY CONSIDERATIONS

4

- **Wet Areas.** Wet grass may cause a golf car to lose traction and may affect stability. Golf car operators should reduce speed in wet areas or during periods of inclement weather.
- **Loose Terrain.** Loose terrain may cause a golf car to lose traction and may affect stability. Repair loose terrain, chain or rope off these areas, or identify loose terrain with a suitable warning.
- **Golf Car and Pedestrian Interference.** Reroute golf car traffic or pedestrian traffic in congested areas wherever possible to prevent accidents. If it is impractical to reroute traffic, erect warning signs to warn pedestrians of golf car traffic, and to warn golf car operators to drive slowly, use caution and watch for pedestrians.
- **Personnel.** Allow only qualified, trained, and authorized personnel to inspect, adjust and maintain golf cars.
- **Parts and Materials.** Use only replacement parts and materials recommended by the manufacturer.
- **Ventilation.** Properly ventilate all maintenance and storage areas in accordance with applicable fire codes and ordinances to avoid fire hazards. Ventilation is required to remove flammable vapors and fumes from gasoline powered car storage areas. Ventilation is also required to remove hydrogen gas from the car storage areas during the battery charging process.

## MAINTENANCE REQUIRED FOR GOLF CAR SAFETY

Practice the following to help ensure the safety of golf car operators:

- **Preventative Maintenance.**  
Perform all scheduled maintenance in accordance with manufacturer's recommendations to provide the golfing patron with a safe, properly operating golf car.



## SAFETY CONSIDERATIONS

### SAFETY PRECAUTIONS DURING MAINTENANCE

When performing maintenance, follow all safety instructions contained in the manufacturer's operation and service manuals, as well as the following safety procedures:

- Properly immobilize golf car before beginning any maintenance to avoid any unexpected vehicle movement.
- Properly block chassis before working underneath golf car to avoid any unexpected vehicle movement.
- Before disconnecting any part of the fuel system, drain the applicable part of the system to prevent fuel leaks.
- When working on the fuel system or the battery, do not smoke, or allow any sparks or open flames near the vehicle, to avoid any fires or explosions.
- Before performing any maintenance, disable the car's electrical system in accordance with the manufacturer's instructions.
- Use only properly insulated tools when working around batteries to avoid electrical shock or damage to the electrical system.
- Maintain all safety devices, including brakes, steering mechanisms, warning devices and governors, in a safe operating condition. Do not modify these safety devices as supplied by the manufacturer.
- After each maintenance or repair, the car must be driven by a qualified, trained and authorized person – in an area free of pedestrian traffic – to ensure proper operation and adjustment.

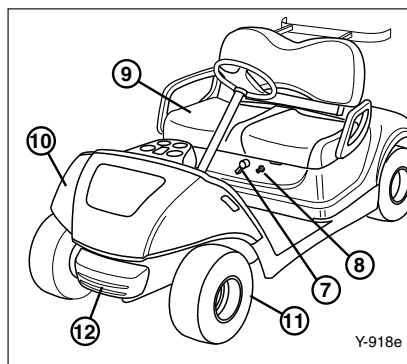
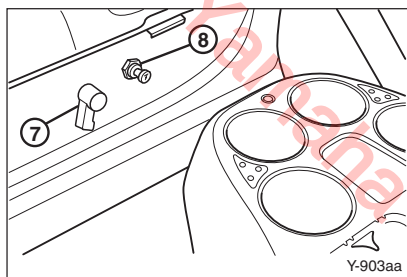
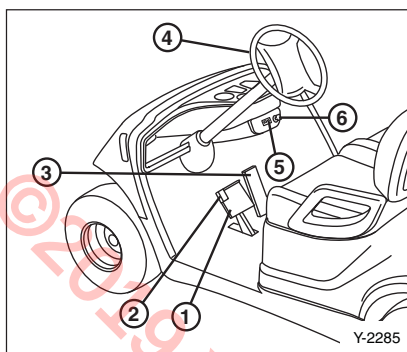
- Record all maintenance performed in a maintenance record log by date, name of person performing maintenance and type of maintenance. Periodically inspect maintenance log to ensure accurate and complete entries.
- Provide operator comment cards to assist in identifying non-periodic maintenance needs for specific golf cars.
- Maintain in a legible condition all nameplates, warnings, and instructions provided by the manufacturer.
- If new nameplates, warnings or instructions are needed, contact your Yamaha Golf-Car Company dealer.

### FUEL HANDLING/STORAGE AND BATTERY CHARGING

Take the following precautions to ensure maintenance worker safety:

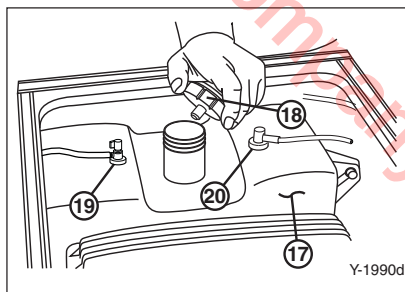
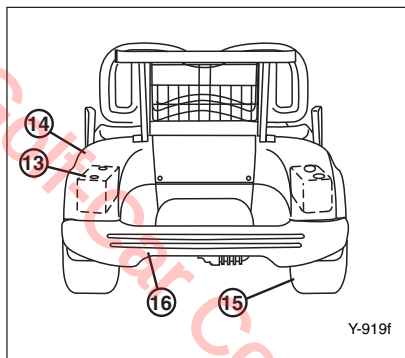
- Supervise the storage and handling of liquid fuels in accordance with applicable fire and safety requirements to avoid any fires or explosions.
- Only use battery charging facilities and procedures that are in accordance with applicable ordinances and regulations to avoid explosions, electrical shock or damage to the electrical system.
- Periodically inspect fueling to be certain that applicable safety codes, regulations and procedures are being followed to avoid any fires or explosions.

# CONTROLS



## FEATURES

- |                       |                      |
|-----------------------|----------------------|
| ① Brake pedal         | ⑨ Seat               |
| ② Parking brake pedal | ⑩ Front body         |
| ③ Accelerator pedal   | ⑪ Front tire         |
| ④ Steering wheel      | ⑫ Front bumper       |
| ⑤ Oil warning light   | ⑬ Battery            |
| ⑥ Main switch         | ⑭ Rear body          |
| ⑦ Drive select lever  | ⑮ Rear tire          |
| ⑧ Choke knob          | ⑯ Rear bumper        |
|                       | ⑰ Fuel tank          |
|                       | ⑱ Fuel cap           |
|                       | ⑲ Fuel shutoff valve |
|                       | ⑳ Fuel tank vent     |



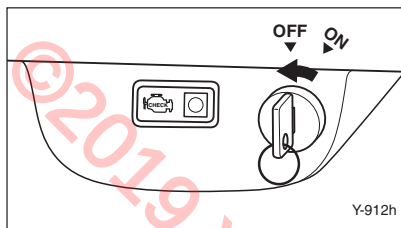
# CONTROLS

## MAIN SWITCH

The main switch controls the following items:

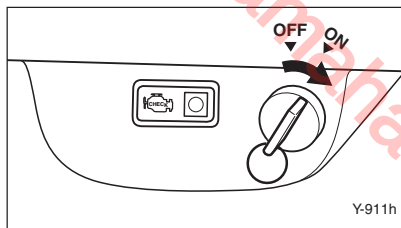
### “OFF”

All electrical circuits are switched off. The key can be removed only in this position.



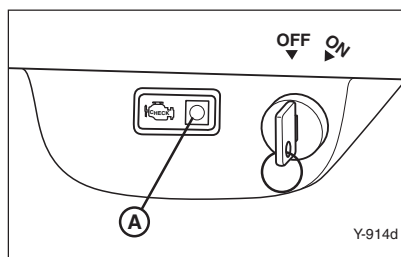
### “ON”

Electrical circuits are switched on. The golf car can be driven.



## OIL WARNING LIGHT

When the engine oil level falls below an acceptable level, this light comes on.

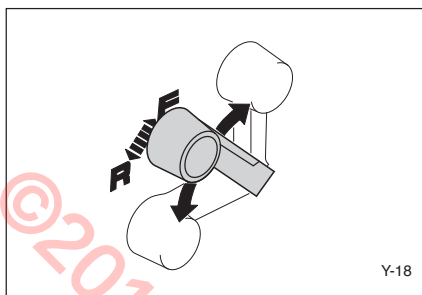


### NOTICE

**If the light comes on, stop the engine, check the engine oil level and add oil as necessary. Engine damage can result from low engine oil levels. (See page 6-3).**

Ⓐ Oil warning light

# CONTROLS



## DRIVE SELECT LEVER

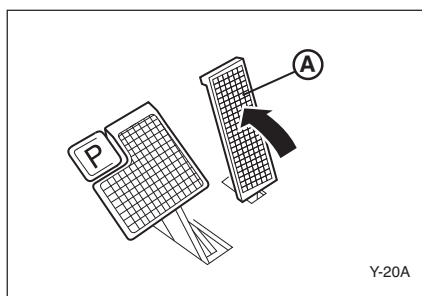
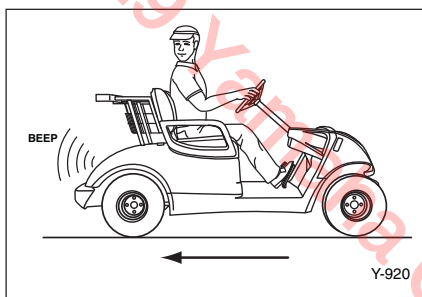
The drive select lever is used to shift the golf car into forward or reverse. After coming to a complete stop, move the lever to the desired position.

| Lever Position | Car Movement |
|----------------|--------------|
| F              | FORWARD      |
| R              | REVERSE      |

## TIP

The reverse alarm will sound when the drive select lever is turned to "R."

5

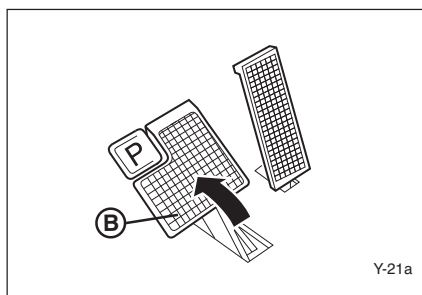


## ACCELERATOR PEDAL

The accelerator pedal controls the golf car's speed.

| Action        | Car Speed |
|---------------|-----------|
| Depress pedal | Increase  |
| Release pedal | Decrease  |

Ⓐ Accelerator pedal

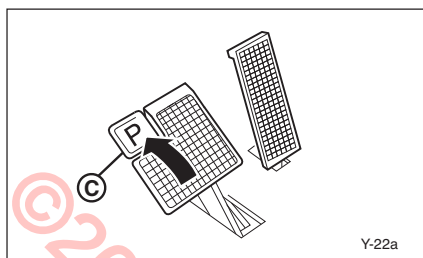


## BRAKE PEDAL

Press down on the brake pedal to stop the golf car.

Ⓑ Brake pedal

# CONTROLS



## PARKING BRAKE PEDAL

Press down on the parking brake pedal whenever parking the golf car.

© Parking brake pedal

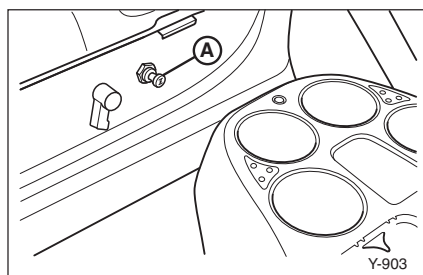
### TIP

Release the parking brake by depressing the accelerator pedal.

### ⚠ WARNING

The parking brake will automatically release when the accelerator pedal is depressed. If the main switch is in the “ON” position, depressing the accelerator may suddenly cause the golf car to move. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

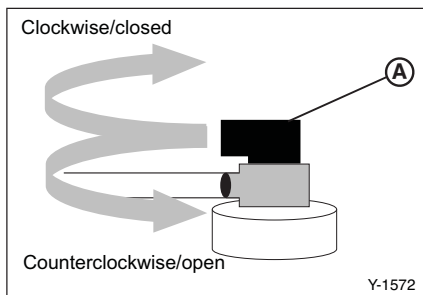
5



## CHOKE KNOB

Pull and hold out choke knob when starting a cold engine. Release the knob after the engine starts.

① Choke knob



## FUEL SHUTOFF VALVE

Ensure the fuel shutoff valve is in the “OPEN” position for normal operation.

① Fuel shutoff valve

# PRE-OPERATION CHECKS

Pre-operation checks should be made each time you use your golf car. Get in the habit of performing the following checks in the same way so that they become second nature.

## ⚠ WARNING

To keep car from moving while performing pre-operation checks:

- Remove main switch key.
- Apply parking brake.

Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

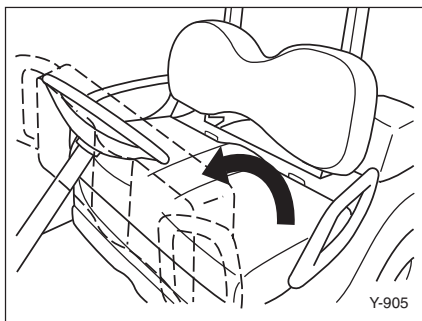
## PRE-OPERATION CHECKLIST

Before each use check the following:

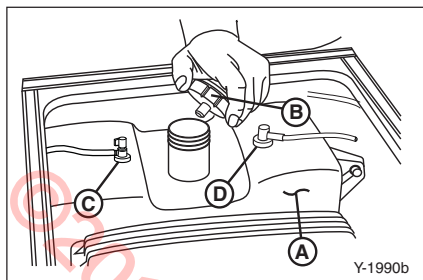
- ✓ Fuel system
- ✓ Engine oil level
- ✓ Battery
- ✓ Tire condition
- ✓ Steering system
- ✓ Reverse alarm
- ✓ Pedal operation
- ✓ Body and chassis

## SEAT

Open the seat for checking and servicing.



# PRE-OPERATION CHECKS



## FUEL SYSTEM

Make sure there is sufficient fuel in the tank and that the fuel shutoff valve is open. Also check fuel line and connections for leakage.

- (A) Fuel tank
- (B) Fuel cap
- (C) Fuel shutoff valve
- (D) Fuel tank vent

### **⚠ WARNING**

**Gasoline and its vapors are highly flammable and explosive. To avoid fires and explosions and to reduce the risk of injury when refueling, follow these instructions.**

1. Stop engine and allow it to cool for several minutes before refueling.  
Do not smoke when refueling and keep away from sparks, flames or other sources of ignition.  
Refuel in a well-ventilated area.
2. Take care not to spill gasoline. If gasoline spills, wipe it up immediately with dry rags. Always dispose of gasoline-soaked rags properly.
3. Tighten the filler cap securely after refueling.

### **⚠ WARNING**

**Gasoline is poisonous and can cause injury or death. If you swallow gasoline, inhale a lot of gasoline vapor or get gasoline in your eyes, get immediate medical attention.**

**If any gasoline gets on your skin, immediately wash with soap and water. Change clothing if gasoline spills on it.**

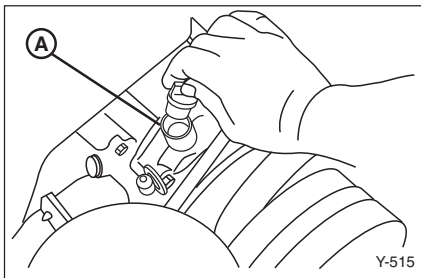
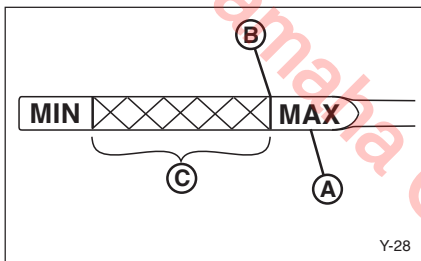
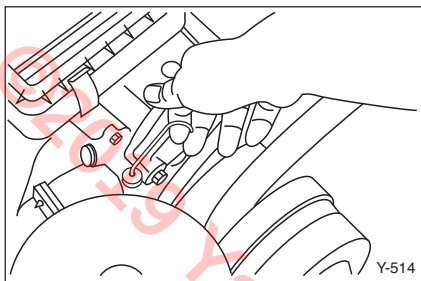
Recommended fuel:  
Unleaded gasoline

Fuel tank capacity:  
22.0 L (5.8 US gal)

Gasoline-based fuels containing more than 10% ethanol are not recommended and may void the warranty.

# PRE-OPERATION CHECKS

6



Recommended oil:  
YAMALUBE 4-cycle oil or 10W30

Engine oil capacity:  
1.0 L, 1000 cc  
(1.0 US qt)

Oil change quantity:  
1.0 L, 1000 cc  
(1.0 US qt)

## NOTICE

Avoid using gasoline blended with methyl alcohol which can damage fuel system parts.

## ENGINE OIL

With the golf car parked on level ground, remove the dipstick and make sure the engine oil is between the MIN and MAX marks (the crosshatched area on the end of the dipstick).

- Ⓐ Oil level dipstick
- Ⓑ Maximum oil level
- Ⓒ Safe operating range

If the oil level is **below** the MIN mark on the dipstick, add oil through the oil filler hole until the oil level is between the MIN and MAX marks.

- Ⓐ Oil filler hole

## NOTICE

**Engine damage can result.**

- Use care not to fill past the MAX dipstick mark, and be sure no foreign material enters the crankcase.
- Use care not to get oil on the starter belt.

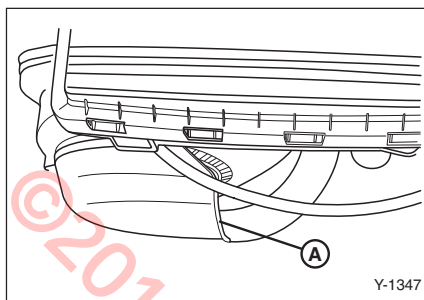
## TIP

The distance between the dipstick marks represents approx. 1/2 L (1/2 US qt) of oil.

## TIP

Recommended engine oil classification: API Service SE, SF, or SG. Engine oils labeled "Energy Conserving II" are recommended.

# PRE-OPERATION CHECKS



## Engine Cooling Inlet Duct

Check the engine cooling inlet duct for debris. Remove any debris present.

- Ⓐ Engine cooling inlet duct

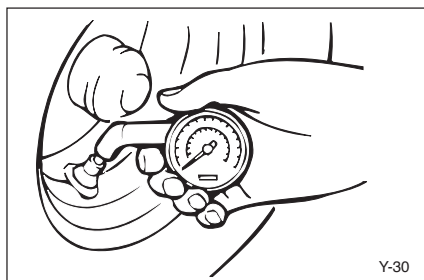
## BATTERY

Check that the battery is held securely in place to prevent the battery from being damaged from vibration or jarring. Also check that no battery caps are missing to prevent battery acid from spilling from the battery. Check the battery terminals for corrosion.

### ⚠ WARNING

**Battery electrolyte is poisonous and dangerous, causing severe burns, etc. It contains sulfuric acid. Avoid contact with skin, eyes or clothing. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries. KEEP OUT OF REACH OF CHILDREN.**

6



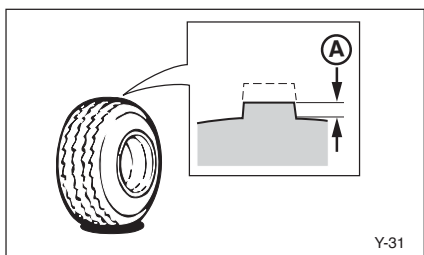
## TIRE CONDITION

### Tire Air Pressure

Check the tire air pressure before operating the golf car.

Tire pressure:

110 kPa, 1.1 kgf/cm<sup>2</sup> (16 psi)

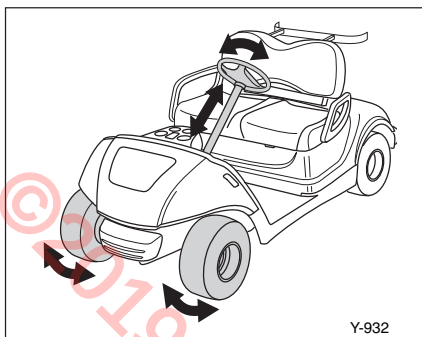


### Tire Wear Limit

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

- Ⓐ Wear limit

# PRE-OPERATION CHECKS

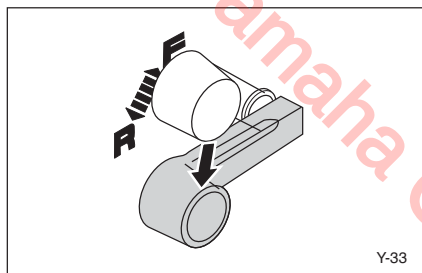


## STEERING SYSTEM

Check the steering system for excessive free play by:

- moving the steering wheel up and down, and back and forth.
- turning the steering wheel slightly to the right and left.

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



## REVERSE ALARM

Check the reverse alarm by moving the drive select lever to "R" for reverse. The alarm should sound.

## PEDAL OPERATION

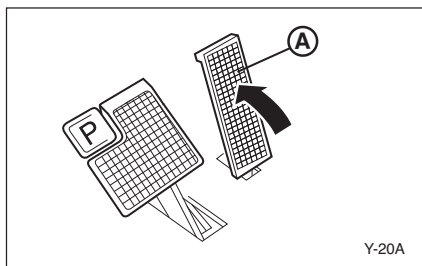
Check the following pedal controls for proper operation. If a pedal does not work properly, consult a Yamaha dealer.

### Accelerator Pedal

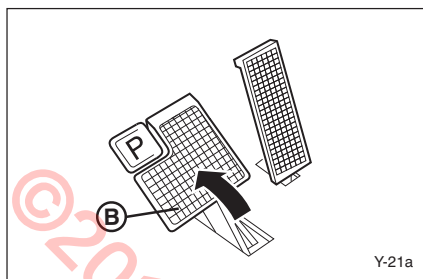
#### **⚠ WARNING**

With the main switch in the "OFF" position, make sure the accelerator pedal operates smoothly.

Ⓐ Accelerator pedal



# PRE-OPERATION CHECKS



## Brake Pedal

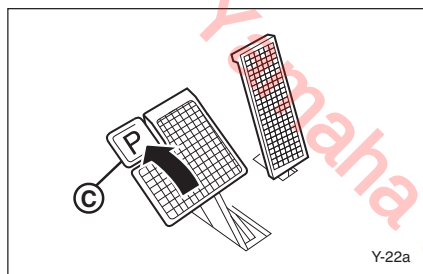
Make sure the brake pedal feels firm when pressed and returns to its original position when released.

Ⓑ Brake pedal

## Parking Brake Pedal

Make sure the parking brake pedal locks in place with a positive click, and releases when the accelerator pedal is pressed.

Ⓒ Parking brake pedal



## TIP

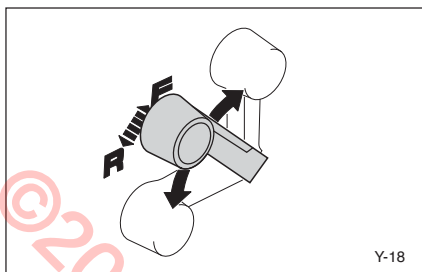
Release the parking brake by depressing the accelerator pedal.

6

## BODY AND CHASSIS

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

# OPERATION

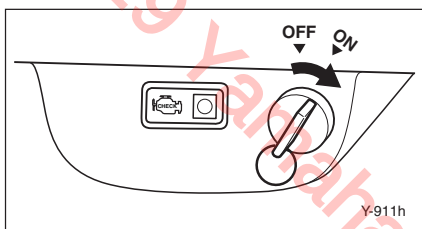


## STARTING

1. With the parking brake applied, turn the drive select lever to "F" for forward, or "R" for reverse.

### NOTICE

**Do not shift from "F" forward to "R" reverse while the golf car is moving. Transmission damage can result.**



2. Turn the main switch to "ON."

### WARNING

**Do not depress the accelerator pedal when turning on the main switch or the golf car may start moving unexpectedly. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.**

3. Pull the choke knob out and hold it while starting. Release the choke knob after the engine starts.

Ⓐ Choke knob

### TIP

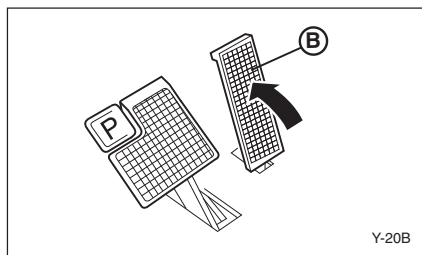
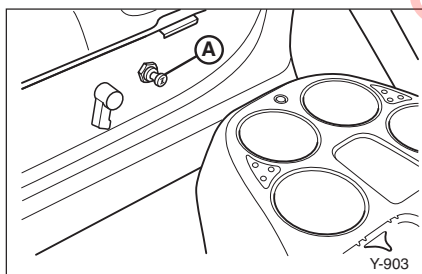
The choke is not required when the engine is warm.

4. Check that your path is clear in the direction you plan to go, and slowly depress the accelerator pedal. The golf car will start to move.

Ⓑ Accelerator pedal

### TIP

The parking brake automatically releases when the accelerator pedal is depressed.



# OPERATION

## STOPPING

To stop the golf car, gradually press down on the brake pedal.

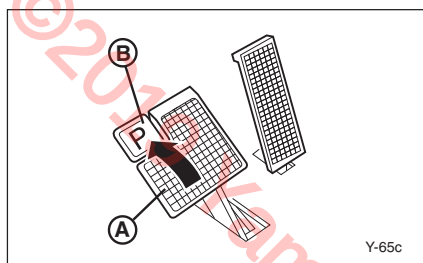
- Ⓐ Brake pedal

When the car has come to a stop, apply the parking brake pedal and turn the main switch to "OFF."

- Ⓑ Parking brake pedal

### NOTICE

**Do not hold the golf car on an incline with the accelerator – use the brake. Transmission damage can result.**



# MAINTENANCE

## PERIODIC MAINTENANCE CHARTS

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

### ⚠ WARNING

**Be sure to turn off the main switch and apply the parking brake when you perform maintenance, unless otherwise specified. If the owner is not familiar with servicing the machine, death or serious personal injury can result. When in doubt the work should be done by a Yamaha dealer or other qualified mechanic.**

CS - CHECK CA - CHECK AND ADJUST R - REPLACE S - SERVICE CL - CLEAN AND LUBRICATE L - LUBRICATE

|                   | Remarks                                                                     | Daily<br>Pre-<br>Operation | 40 Rounds<br>20 hours<br>100 miles<br>160 kms<br>(Every<br>month) | 250 rds<br>125 hrs<br>600 mls<br>1000 kms<br>(Every 6<br>months) | 500 rds<br>250 hrs<br>1200 mls<br>2000 kms<br>(Every<br>year) | 1000 rds<br>500 hrs<br>2500 mls<br>4000 kms<br>(Every<br>2 years) | 2000 rds<br>1000 hrs<br>5000mls<br>8000 kms<br>(Every<br>4 years) | Page        |
|-------------------|-----------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|-------------|
| PRE-OP            | Check engine oil                                                            | CS                         | CS                                                                | CS                                                               |                                                               |                                                                   |                                                                   | 6-3         |
|                   | Check air cooling duct                                                      | CS                         | CS                                                                | CS                                                               | CS                                                            | CS                                                                | CS                                                                | *           |
|                   | Check fuel lines for leakage                                                | CS                         | CS                                                                | CS                                                               | CS                                                            | CS                                                                | CS                                                                | 6-2         |
|                   | Check fuel level                                                            | CS                         | CS                                                                | CS                                                               | CS                                                            | CS                                                                | CS                                                                | 6-2         |
|                   | Check for looseness<br>and corrosion of battery<br>terminals and hold downs | CS                         | CS                                                                | CS                                                               | CS                                                            | CS                                                                | CS                                                                | 6-4         |
|                   | Check brake pedal free play<br>and adjust if necessary                      | CS                         | CA                                                                | CA                                                               | CA                                                            | CA                                                                | CA                                                                | 8-13        |
|                   | Check steering operation                                                    | CS                         | CS                                                                | CS                                                               | CS                                                            | CS                                                                |                                                                   | 6-5         |
|                   | Check tire pressure, tread<br>depth, tire surface for damage                | CS                         | CA                                                                | CA                                                               | CA                                                            | CA                                                                | CA                                                                | 6-4         |
|                   | Check body and chassis for<br>damage                                        | CS                         | CS                                                                | CS                                                               | CS                                                            | CS                                                                | CS                                                                | 6-6         |
|                   | Check tightness of all bolts,<br>nuts, screws and rivets                    | CS                         | CS                                                                | CS                                                               | CS                                                            | CS                                                                | CS                                                                | *           |
|                   | Check reverse alarm<br>operation                                            | CS                         | CS                                                                | CS                                                               | CS                                                            | CS                                                                | CS                                                                | 6-5         |
| EVERY<br>MONTH    | Check fuel filter for clogging                                              |                            | CS                                                                | CS                                                               | CS                                                            | CS                                                                | CS                                                                | *           |
|                   | Check wear of drive belt                                                    |                            | CS                                                                | CS                                                               | CS                                                            | CS                                                                | CS                                                                | 8-7/<br>8-8 |
|                   | Check operation of<br>Forward / Reverse shifting                            |                            | CS                                                                | CS                                                               | CS                                                            | CS                                                                | CS                                                                | 7-1         |
|                   | Clean / Lube pedal control area                                             |                            | CL                                                                |                                                                  |                                                               |                                                                   |                                                                   | *           |
| EVERY 6<br>MONTHS | Wash pre-filter, check air<br>cleaner element                               |                            |                                                                   | S                                                                | S                                                             | S                                                                 | S                                                                 | 8-6/<br>8-7 |
|                   | Check spark plug and plug cap<br>condition** / Check compression            |                            |                                                                   | CS                                                               | CS                                                            | CS                                                                | CS                                                                | 8-4         |
|                   | Check shock absorbers for oil<br>leaks and damaged springs                  |                            |                                                                   | CS                                                               | CS                                                            | CS                                                                |                                                                   | *           |

\* Items without a page number reference should be serviced by a Yamaha dealer or other qualified mechanic. This manual does not contain these procedures. They are contained in the Service Manual.

\*\* Related to emission control system.

# MAINTENANCE

CS - CHECK CA - CHECK AND ADJUST R - REPLACE S - SERVICE CL - CLEAN AND LUBRICATE L - LUBRICATE

|                  | Remarks                                                                                                                                                                                                                                   | Daily<br>Pre-<br>Operation | 40 Rounds<br>20 hours<br>100 miles<br>160 kms<br>(Every<br>month) | 250 rds<br>125 hrs<br>600 mls<br>1000 kms<br>(Every 6<br>months) | 500 rds<br>250 hrs<br>1200 mls<br>2000 kms<br>(Every<br>year) | 1000 rds<br>500 hrs<br>2500 mls<br>4000 kms<br>(Every<br>2 years) | 2000 rds<br>1000 hrs<br>5000mls<br>8000 kms<br>(Every<br>4 years) | Page |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|------|
| EVERY<br>YEAR    | Replace engine oil                                                                                                                                                                                                                        |                            |                                                                   |                                                                  | R                                                             | R                                                                 | R                                                                 | 8-5  |
|                  | Adjust throttle cables,**<br>choke cable, check carburetor<br>throttle shaft for wear**                                                                                                                                                   |                            |                                                                   |                                                                  | CA                                                            | CA                                                                | CA                                                                | *    |
|                  | Check starter V-belt for<br>damage and tension                                                                                                                                                                                            |                            |                                                                   |                                                                  | CS                                                            | CS                                                                | CS                                                                | *    |
|                  | Check drive belt for slippage,<br>wear or scratches                                                                                                                                                                                       |                            |                                                                   |                                                                  | CS                                                            | CS                                                                | CS                                                                | 8-7  |
|                  | Check operation of speed limiter                                                                                                                                                                                                          |                            |                                                                   |                                                                  | CS                                                            | CS                                                                | CS                                                                | *    |
|                  | Apply battery terminal protectant                                                                                                                                                                                                         |                            |                                                                   |                                                                  | S                                                             | S                                                                 | S                                                                 | *    |
|                  | Check wiring connections<br>and insulation                                                                                                                                                                                                |                            |                                                                   |                                                                  | CS                                                            | CS                                                                | CS                                                                | *    |
|                  | Check rear axle bearing play<br>for roughness or freeplay                                                                                                                                                                                 |                            |                                                                   |                                                                  | CS                                                            | CS                                                                | CS                                                                | *    |
|                  | Perform primary and secondary<br>clutch maintenance:<br>- Inspect sheaves for wear and<br>damage<br>- Inspect weights/rollers and<br>bushings for wear (primary)<br>- Inspect RAM shoes for wear<br>(secondary)<br>- Replace if necessary |                            |                                                                   |                                                                  | CL                                                            | CL                                                                | CL                                                                | *    |
|                  | Check steering knuckle<br>bushing free play / Adjust<br>wheel alignment                                                                                                                                                                   |                            |                                                                   |                                                                  | CA                                                            | CA                                                                | CA                                                                | *    |
|                  | Check wheel nut tightness,<br>front wheel bearing play                                                                                                                                                                                    |                            |                                                                   |                                                                  | CS                                                            | CS                                                                | CS                                                                | *    |
|                  | Check transaxle oil level and<br>inspect for leakage                                                                                                                                                                                      |                            |                                                                   |                                                                  | CS                                                            | CS                                                                | CS                                                                | 8-10 |
|                  | Check operation and adjust<br>pedal stop if necessary                                                                                                                                                                                     |                            |                                                                   |                                                                  | CA                                                            | CA                                                                | CA                                                                | *    |
| EVERY<br>2 YEARS | Check brushes for wear and<br>commutator for dirt                                                                                                                                                                                         |                            |                                                                   |                                                                  |                                                               | CS                                                                | S                                                                 | *    |
| EVERY<br>4 YEARS | Replace transaxle oil                                                                                                                                                                                                                     |                            |                                                                   |                                                                  |                                                               |                                                                   | R                                                                 | *    |
|                  | Replace fuel filter and<br>fuel hoses                                                                                                                                                                                                     |                            |                                                                   |                                                                  |                                                               |                                                                   | R                                                                 | *    |
|                  | Check tightness of cylinder<br>head / Adjust valves                                                                                                                                                                                       |                            |                                                                   |                                                                  |                                                               |                                                                   | CA                                                                | *    |
|                  | Inspect brake shoes and<br>adjust or replace if necessary                                                                                                                                                                                 |                            |                                                                   |                                                                  |                                                               |                                                                   | CA                                                                | *    |

\* Items without a page number reference should be serviced by a Yamaha dealer or other qualified mechanic. This manual does not contain these procedures. They are contained in the Service Manual.

\*\* Related to emission control system.

# MAINTENANCE

## EXHAUST EMISSION CONTROL SYSTEM AND COMPONENTS

| Item                                                                                                          | Abbreviation                         |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <ul style="list-style-type: none"> <li>CARB. ASSY., LH., JT., CARBURETOR 2 &amp; JT., CARBURETOR 1</li> </ul> | CARB (Carburetor)                    |
| <ul style="list-style-type: none"> <li>T.C.I. MAGNETO ASSY. &amp; PLUG, SPARK</li> </ul>                      | EI (Electronic Ignition)             |
| <ul style="list-style-type: none"> <li>CRANKCASE 1 &amp; HEAD, CYLINDER 1</li> </ul>                          | PCV (Positive Crankcase Ventilation) |
| <ul style="list-style-type: none"> <li>AIR FILTER ASSY.</li> </ul>                                            | ACL (Air Cleaner)                    |
| <ul style="list-style-type: none"> <li>MUFF. ASSY., 1</li> </ul>                                              | MUFF., 2                             |
| <ul style="list-style-type: none"> <li>CARBON CANISTER</li> </ul>                                             | CC                                   |
| <ul style="list-style-type: none"> <li>INVERSION VALVE</li> </ul>                                             | IV                                   |

The above items and the corresponding abbreviations are provided in accordance with U.S. EPA REGULATIONS FOR SMALL NONROAD ENGINES and the CALIFORNIA REGULATIONS FOR NEW 1995 AND LATER OFF-HIGHWAY RECREATIONAL VEHICLES AND ENGINES.

The abbreviations conform to the latest version of the SAE's recommended practice document J1930, "Diagnostic Acronyms, Terms, and Definitions For Electrical/Electronic System".

It is recommended that these items be serviced by a Yamaha dealer or other qualified mechanic.

## TROUBLESHOOTING

If the vehicle's engine won't start, use the following chart:

| Cause                                | Remedy                                    |
|--------------------------------------|-------------------------------------------|
| Fuel System                          |                                           |
| No fuel in tank                      | Fill fuel tank                            |
| Fuel shutoff valve closed            | Open fuel shutoff valve                   |
| Clogged fuel line                    | Clean fuel line – Consult Yamaha dealer   |
| Foreign matter in fuel filter        | Clean fuel filter – Consult Yamaha dealer |
| Clogged carburetor                   | Clean carburetor – Consult Yamaha dealer  |
| Electrical System                    |                                           |
| Spark plug dirty with carbon, or wet | Clean carbon or wipe spark plug dry       |
| Faulty ignition system               | Consult Yamaha dealer                     |

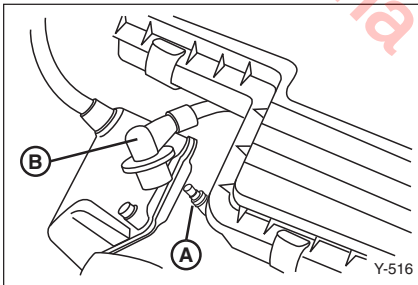
# MAINTENANCE

## Spark Plug Inspection

You should periodically remove and inspect the spark plug. Dirty or worn spark plugs can cause poor performance.

### ⚠ WARNING

When removing or installing the spark plug, be careful not to damage the insulator. A damaged insulator could allow external sparks, which could lead to explosion or fire. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.



- (A) Spark plug
- (B) Spark plug cap

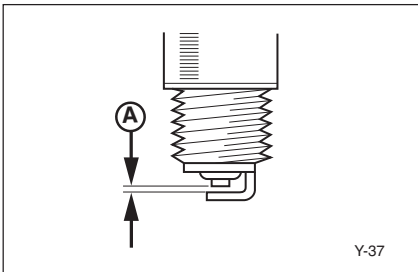
1. Check for discoloration and remove carbon deposits with a spark plug cleaner or wire brush. The normal electrode color will be tan.
2. Check the spark plug type, and check the spark plug gap with a feeler gauge.

Standard spark plug:  
BPR2ES

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

- (A) Gap
3. Clean the gasket and plug surfaces and install the spark plug finger-tight before tightening to the following torque:

Spark plug torque:  
20 Nm, 2.0 m·kg  
(14.5 ft·lb)



# MAINTENANCE

## Engine Oil Replacement

1. Warm up the engine for several minutes, place the golf car on a level surface, then stop the engine.

### WARNING

Use caution not to touch hot engine oil or hot engine parts, during the following procedure. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

2. Place an oil pan under the engine drain plug.
3. Remove the oil drain plug and let the oil drain completely.

### TIP

Dispose of used oil in an environmentally safe way, such as taking oil to an oil collection station.

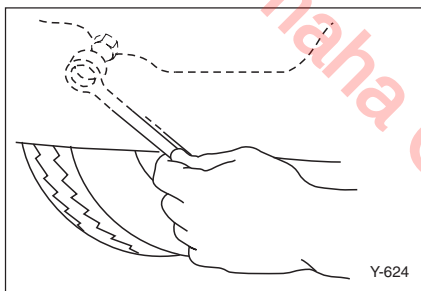
4. Install the drain plug, along with a new drain plug gasket, finger-tight before tightening to the following torque:

Drain plug torque:  
31 Nm, 3.1 m·kg  
(23 ft·lb)

5. Add the correct quantity of oil through the oil filler hole.

### TIP

Recommended engine oil classification: API Service SE, SF, or SG. Engine oils labeled “Energy Conserving II” are recommended.

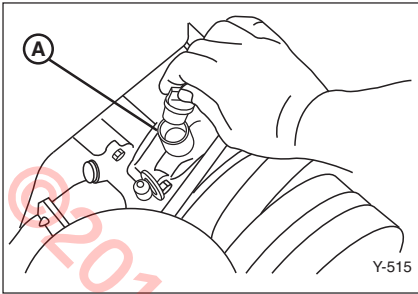


Recommended oil:  
YAMALUBE 4-cycle oil or 10W30

Engine oil capacity:  
1.0 L, 1000 cc  
(1.0 US qt)

Oil change quantity:  
1.0 L, 1000 cc  
(1.0 US qt)

# MAINTENANCE

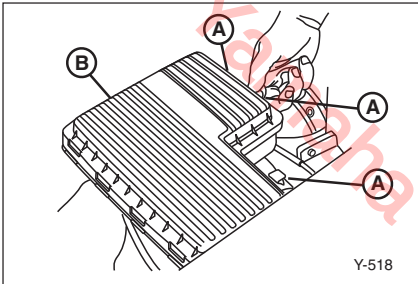


(A) Oil filler hole

## NOTICE

Use care not to fill past the MAX dipstick mark, and be sure no foreign material enters the crankcase. Serious engine damage can result.

After replacing engine oil, check for oil leaks around the drain plug. If oil leaks are found, consult a Yamaha dealer.



## Air Filter

To remove the air filter elements:

1. Unlatch the air filter cover clips and remove cover.

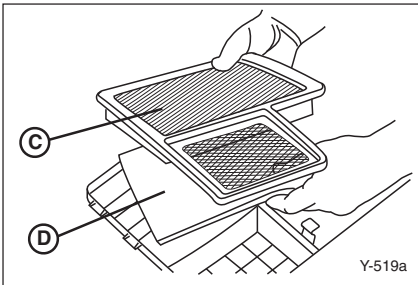
(A) Air filter cover clips

(B) Air filter cover

2. Lift the air filter and pre-filter out of the air filter case.

(C) Air filter

(D) Pre-filter



## NOTICE

Be careful not to drop anything into the air inlet. Serious engine damage can result.

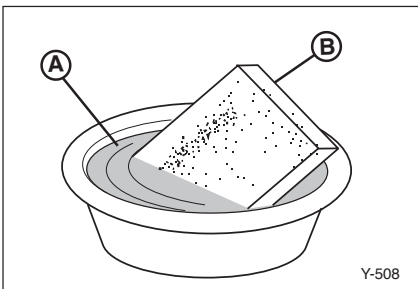
Inspection and cleaning:

3. Wash the foam pre-filter in soap and water. Allow it to dry.

(A) Soap and water

(B) Foam element

4. Check the filter element. If damaged or dirty, replace it.



# MAINTENANCE

## NOTICE

Do not wring out the foam pre-filter, this could cause it to tear.

5. To replace the elements, reverse the above steps.

## NOTICE

The pre-filter has a notch on one side. It will only fit in the case one way. Serious engine damage can result from an improperly positioned filter.

## Drive Belt

To remove the drive belt:

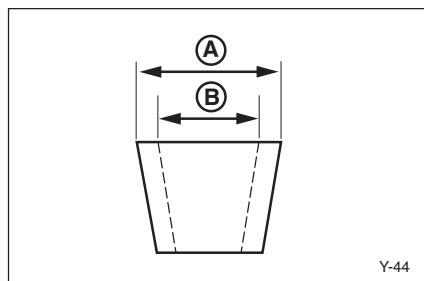
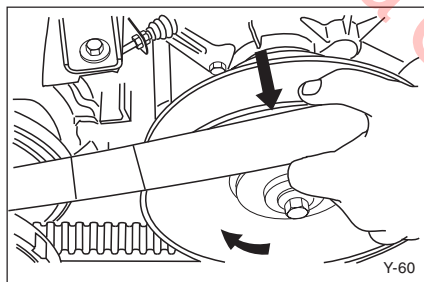
1. Set the drive select lever halfway between forward and reverse.
2. Pull up on the drive belt and push it outward over the edge of the secondary sheave.
3. Turn the secondary sheave clockwise and the drive belt will roll off the sheave.
4. Remove the drive belt from the primary sheave.

Inspection:

To inspect the drive belt, check for frayed edges or tears, and measure drive belt against the following specification. If the belt shows excessive wear or damage, replace the belt with a new one.

- (A) New: 31.0 mm (1.20 in.)
  - (B) Replace when belt reaches: 27.0 mm (1.06 in.)
5. To install the drive belt, reverse the above steps, rolling the belt back over the secondary sheave.

8



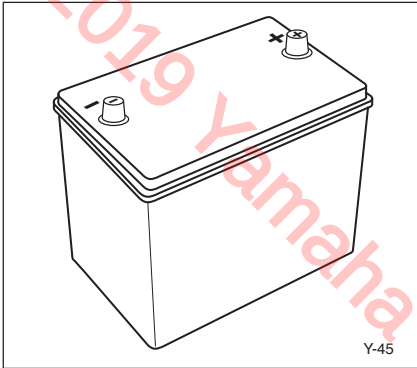
# MAINTENANCE

## Clutch

Maintenance is required each year for proper drive operation. Refer to the Periodic Maintenance chart in this owner's manual.

## Battery

The 12-volt battery that provides starting power to your gas car normally does not require the addition of water. If the battery loses its charge, have an experienced mechanic charge it.



### **⚠ WARNING**

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

**Antidote:**

**EXTERNAL:** Flush with water.

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

**EYES:** Flush with water for 15 minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc., away.

Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries.

**KEEP OUT OF REACH OF CHILDREN.**

# MAINTENANCE

## Fuse Replacement

### ⚠ WARNING

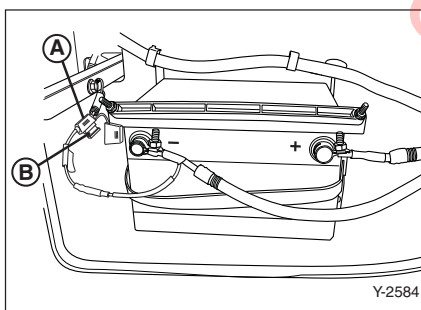
Be sure to use the specified fuse. Using a wrong fuse can cause electrical system damage and create a fire hazard. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

### NOTICE

When replacing a fuse, be sure the main switch is turned off to prevent accidental short-circuiting and electrical system damage.

1. Locate the in-line fuse holder on the main wire harness adjacent to the battery.
2. Pull fuse holder cover off.
3. Pull fuse out, inspect and replace if necessary.

- Ⓐ Fuse holder
- Ⓑ Fuse



Fuse Type:  
10 Amp, Blade Style

# MAINTENANCE

## Transaxle Oil

### To check transaxle oil level:

1. Place the golf car on a flat, level surface.
2. Remove seven plastic rivets ① and two bolts ②, and remove the bag holder insert ③.
3. Place an oil pan under the transaxle case.
4. Clean the area around the oil level plug ④ and then remove the plug.

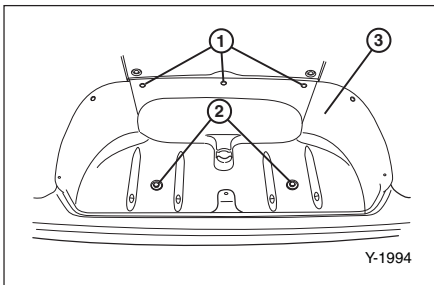
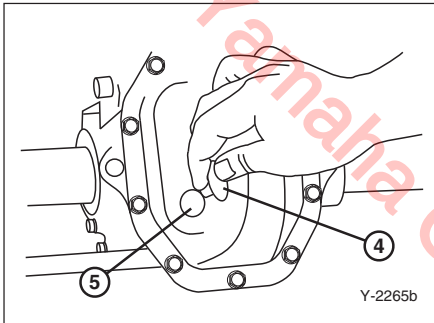
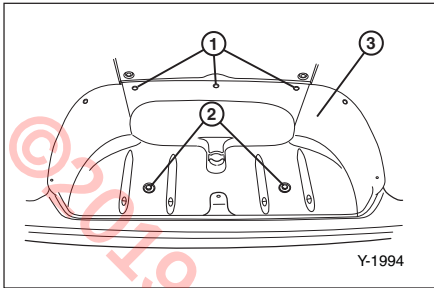
### NOTICE

**Do not allow foreign material to enter transaxle. Serious transaxle damage can result.**

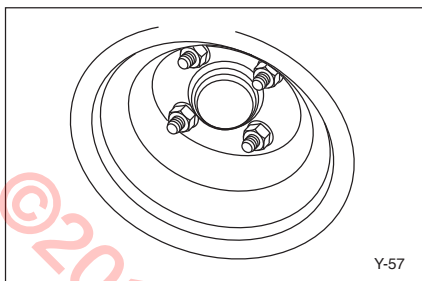
5. The oil level should be right at the bottom of the oil level plug hole ⑤ or just starting to flow out of the hole.
6. If needed, add SAE 90 gear oil until it starts to flow from the oil level plug hole.
7. Allow excess gear oil to flow out of the hole until it stops.
8. Install the oil level plug.
9. Install the bag holder insert ③ and secure with two bolts ② and seven plastic rivets ①.

### TIP

For transaxle oil replacement, consult a Yamaha dealer or other qualified mechanic.



# MAINTENANCE



## **⚠ WARNING**

Before performing wheel or brake maintenance, verify that the main switch is in the “OFF” position. Accidental starting of the vehicle could cause the vehicle to move, causing death or serious personal injury.

## Wheel Replacement

To remove and install a wheel on your golf car:

1. With the wheels blocked to prevent the golf car from moving, loosen the wheel nuts.
2. Elevate the golf car with a jack and remove the wheel nuts and the wheel.
3. Reverse the removal steps when installing the wheel.

Wheel nut tightening torque:  
88 Nm, 8.8 m·kg (65 ft·lb)

8

## Brake Adjustment

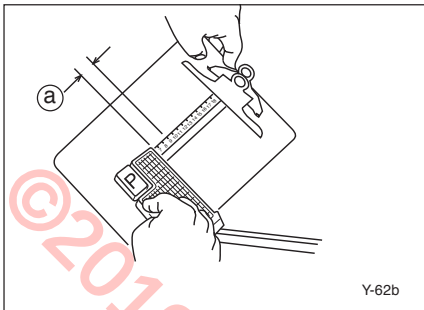
The brakes on your golf car are self-adjusting.

Before you operate the car, press down on the brake pedal several times to make sure the brakes are functioning properly.

## **⚠ WARNING**

Consult your Yamaha dealer before using your golf car if you suspect brake problems. Brake failure could result in a serious accident. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

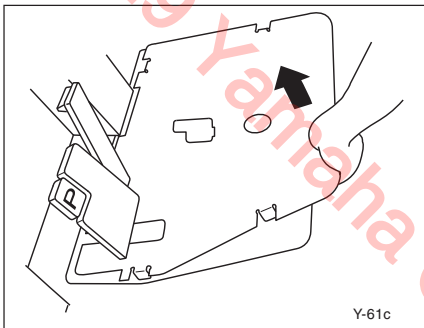
# MAINTENANCE



## Brake Pedal Free Play Adjustment

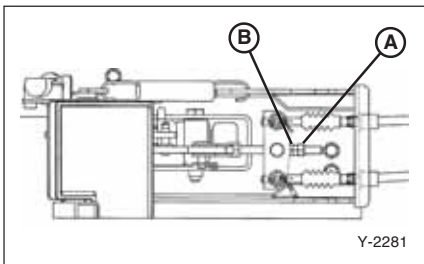
Check the brake pedal free play by pressing against the pedal with two fingers (using light force) and measuring the distance the pedal travels before resistance is felt.

Brake pedal free play (a):  
20-25 mm (0.79-0.98 in.)



To adjust the brake pedal free play:

1. Remove the floor mat and service lid from the floor of the golf car.
2. If the free play distance needs adjusting, loosen the lock nut (A) and turn the adjusting nut (B) in or out until the free play specification is met. Then tighten the lock nut in place.



### **⚠ WARNING**

**Do not over-tighten the brake cables. Over-tightening will increase brake wear and affect overall performance of golf car. Premature brake wear can result. Death or serious personal injury can result from failing to comply with the warning labels in this manual.**

# STORAGE

Perform the following preparations when storing your golf car for extended periods of time:

## TIP

Turn main switch key to "OFF" position, remove key, and store key in a safe place.

## DRAINING FUEL

### ⚠ WARNING

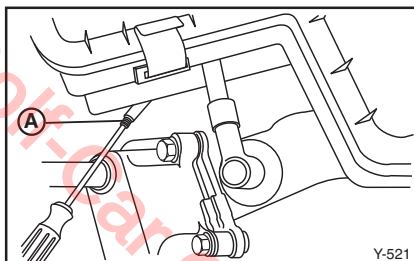
Gasoline and its vapors are highly flammable and explosive. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

- Do not smoke when draining fuel and keep away from sparks, flames, or other sources of ignition.
- Stop engine and allow it to cool for several minutes before draining fuel.
- Drain fuel in a well-ventilated area.
- Take care not to spill gasoline. If gasoline spills, wipe it up immediately with dry rags. Always dispose of gasoline-soaked rags properly.
- Tighten the filler cap securely after checking fuel level to avoid leaking.
- If you inhale a lot of gasoline vapor, or get gasoline in your eyes, get immediate medical attention.
- If any gasoline gets on your skin, immediately wash with soap and water. Change clothing if gasoline spills on it to avoid potential fire hazard.

1. Fill the fuel tank with fresh fuel and add the specified amount of Yamaha Fuel Stabilizer and Conditioner or equivalent product. Operate the vehicle for at least five minutes to distribute treated fuel through the fuel system.

Ⓐ Float bowl drain screw

2. Turn the fuel shutoff valve to the "CLOSED" position.
3. Drain the carburetor float chamber into a clean container by loosening the drain bolt; this will help prevent fuel deposits from building up. Pour the drained fuel into the fuel tank.



Specified amount:

7.5 cc of stabilizer for each liter of fuel (1 oz. of stabilizer for each gallon of fuel)

## TIP

Use of fuel stabilizer and conditioner eliminates the need to drain the fuel system. Consult a Yamaha dealer if the fuel system needs to be drained instead.

### ENGINE PREPARATION

With the key removed and the spark plug lead disconnected, turn the clutch by hand until compression is felt. This puts the valves in the closed position.

### CHASSIS PREPARATION

1. Verify the tire pressure is set to 110 kPa, 1.1 kgf/cm<sup>2</sup> (16 psi).
2. Clean exterior of the golf car and apply a rust inhibitor.
3. Cover the golf car with a breathable cover and store it in a dry, well-ventilated area.

### BATTERY PREPARATION

1. Remove the battery from the golf car and store it in a cool, dry place that stays between 0°C (32°F) and 30°C (90°F).

2. Have the battery recharged every 60-90 days to keep it fully charged. The battery must be kept fully charged to avoid damage.
3. Batteries like the one supplied with your car normally do not require you to check the water level inside the battery for the one-year warranty period provided by the manufacturer.

#### NOTICE

**Do not allow cleaning solution to enter battery cells. Serious battery damage can result.**

4. Clean the top of the battery with a solution of baking soda and water, as necessary, to remove corrosion.

# SPECIFICATIONS

## GENERAL SPECIFICATIONS

| Items                                     | YDRA                                           |
|-------------------------------------------|------------------------------------------------|
| Dimensions:                               |                                                |
| Overall length                            | 2395 mm (94.3 in.)                             |
| Overall width                             | 1200 mm (47.2 in.)                             |
| Overall height (steering height)          | 1190 mm (46.9 in.)                             |
| Height of floor                           | 310 mm (12.2 in.)                              |
| Wheelbase                                 | 1640 mm (64.6 in.)                             |
| Tread:                                    |                                                |
| Front                                     | 870 mm (34.3 in.)                              |
| Rear                                      | 980 mm (38.6 in.)                              |
| Minimum ground clearance                  | 110 mm (4.3 in.)                               |
| Weight:                                   |                                                |
| Dry weight (with suntop, without battery) | 276 kg (609 lb)                                |
| Performance:                              |                                                |
| Factory speed setting                     | 19 km/h (12 mph)                               |
| Maximum speed                             | 24 km/h (15 mph)                               |
| Minimum turning radius                    | 2.8 m (9.2 ft)                                 |
| Seating capacity                          | Two occupants per seat, four occupants maximum |
| Fuel Tank Capacity                        | 22.0 L (5.8 U.S. Gallons)                      |

## PAINT CODES

| Name               | Ditzler Number   |
|--------------------|------------------|
| Glacier            | 918519           |
| Sunstone           | 27321            |
| Emerald            | 48748            |
| Garnet             | 701739           |
| Tanzanite          | 917834           |
| Sandstone Metallic | 918523           |
| Moonstone Metallic | 5939 (ColorRite) |

# SPECIFICATIONS

## ENGINE

| Items               | YDRA                                  |
|---------------------|---------------------------------------|
| Description:        |                                       |
| Engine type         | 4-stroke, Gasoline, 60° incline OHV   |
| Number of cylinders | Single                                |
| Displacement        | 357 cm³                               |
| Bore x stroke       | 85 x 63 mm (3.30 x 2.48 in.)          |
| Compression ratio   | 8.1:1                                 |
| Rated output        | 8.5 kw (11.4 hp)/3500 rpm             |
| Cooling system      | Forced air-cooled                     |
| Starting system     | Starter                               |
| Ignition system     | TCI Magneto                           |
| Spark plug type     | BPR2ES                                |
| Spark plug gap      | 0.7-0.8 mm (0.028-0.031 in.)          |
| Lubrication system  | Splash-style positive oil lubrication |
| Engine oil type     | YAMALUBE 4-cycle oil or 10W30         |
| Engine oil capacity | 1.0 L, 1000 cc (1.0 US qt)            |
| Oil change quantity | 1.0 L, 1000 cc (1.0 US qt)            |

## TRANSMISSION

| Items                              | YDRA                                                              |
|------------------------------------|-------------------------------------------------------------------|
| Transmission:                      |                                                                   |
| Type                               | V-belt automatic centrifugal engagement                           |
| V-belt width and outer line length | 31.0 x 1010 mm (1.20 x 39.76 in.)                                 |
| V-belt wear limit                  | 27.0 mm (1.06 in.)                                                |
| Governor:                          |                                                                   |
| Type                               | Oil bath flyweight                                                |
| Factory speed setting              | 19 km/h (12 mph)                                                  |
| Differential/reduction gear:       | Secondary reduction system helical gear                           |
|                                    | Secondary reduction ratio:                                        |
|                                    | Forward 11.34:1; Reverse 15.25:1                                  |
|                                    | Differential type bevel gear                                      |
|                                    | Lubricant/capacity SAE 90 gear oil/355 cc<br>(355 mL, 0.38 US qt) |

# SPECIFICATIONS

## BATTERIES

| Items    | YDRA                                                     |
|----------|----------------------------------------------------------|
| Battery: | BCI group 24,<br>RC: minimum 75 min<br>CCA: minimum 400A |

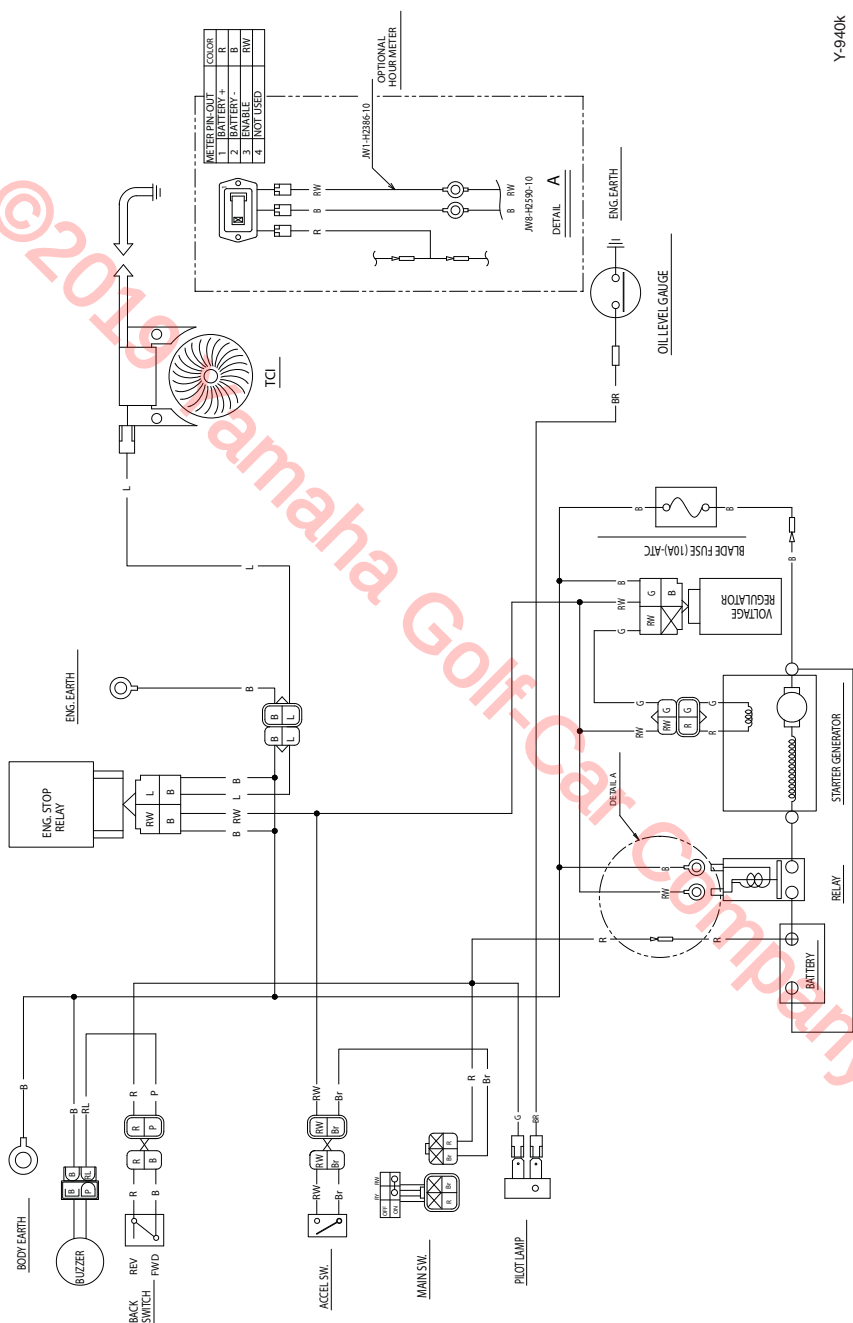
## CHASSIS

| Items                                                                                                                 | YDRA                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Steering system:<br>Type<br>Steering angle (L.H.)<br>Steering angle (R.H.)                                            | Rack and Pinion<br>1.85 turn<br>1.85 turn                                                                                                                                                          |
| Brakes:<br>Brake system<br><br>Type of brake<br><br>Brake pedal freeplay linkage adjustment<br>(Brake cable end play) | Mechanical drum brake on each rear wheel with self-adjusters<br>Dual internal expanding shoe<br>Leading/trailing shoes (self-adjusting)<br>20-25 mm (0.79-0.98 in.)<br>0.004-0.02 in. (0.1-0.5 mm) |
| Parking brake:<br>Type                                                                                                | Foot type; parking brake with automatic release.                                                                                                                                                   |
| Release timing<br>(With pedal segment in second notch)<br>(Bolt heads round parallel to arm)                          | 0.0 ~ 0.3 mm (0.000 ~ 0.001 in.)                                                                                                                                                                   |
| Wheel:<br>Tire size:<br>Front<br>Rear<br>Rim size:<br>Tire pressure:                                                  | 18 x 8.50-8.00/4 PR<br>18 x 8.50-8.00/4 PR<br>7.00-1-8.00<br>110 kPa, 1.1 kgf/cm <sup>2</sup> (16 psi)                                                                                             |

# YDRA WIRING DIAGRAM

# WIRING

Y-940K



## NOTES

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## NOTES

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