



## OWNER'S / OPERATOR'S MANUAL



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

# DR2A17 SVS

## CONCIERGE 4 EFI

## **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 four-passenger electronic fuel injection (EFI) vehicle. This manual contains information you will need for proper operation, maintenance, and care of your EFI vehicle. 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 vehicle, please consult a Yamaha dealer.

**Yamaha Motor Corporation USA**

### **FOUR-PASSENGER GAS VEHICLE OWNER'S/OPERATOR'S MANUAL**

**© 2017 by Yamaha Motor Corporation  
USA**

**1st Edition**

**All rights reserved. Any reprinting  
or unauthorized use without the  
written permission of**

**Yamaha Motor Corporation USA  
is expressly prohibited.**

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

**LIT-19626-25-51**



J2B-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**

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

## **NOTICE**

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

## **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 vehicle and this manual. If you have any questions concerning this manual, please consult your Yamaha dealer.

## **WARNING**

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

# CONTENTS

## WARRANTY

1

## IMPORTANT LABELS

2

## OPERATOR SAFETY

3

## SAFETY CONSIDERATIONS

4

## CONTROLS

5

## PRE-OPERATION CHECKS

6

## OPERATION

7

## MAINTENANCE

8

## STORAGE

9

## SPECIFICATIONS

10

## WIRING

11

# WARRANTY

1

## LIMITED 2-YEAR WARRANTY FOR TRANSPORTATION AND UTILITY VEHICLES

Yamaha Golf-Car Company hereby warrants that any new Yamaha utility vehicle or any multi passenger cars or specialty vehicles purchased from Yamaha, or an Authorized Dealer or Distributor in the United States will be free from defects in material and workmanship for TWO years from date of purchase, subject to the stated limitations. DURING THE PERIOD OF WARRANTY, any authorized Yamaha golf car service technician, dealer, or distributor 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.

| Common Parts                           |         | Electric Car Specific                                                 |                                                                                                             |
|----------------------------------------|---------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Frame                                  | 2 Years | Battery - Trojan ' T875 ' <u>without</u><br>HydroLink Watering System | 4 Years or 23,500 amp-hours<br>whichever comes first<br><small>*Detailed condition on the next page</small> |
| Transaxle                              | 2 Years |                                                                       |                                                                                                             |
| Pedals                                 | 2 Years |                                                                       |                                                                                                             |
| Brakes (excluding shoes / pads)        | 2 Years |                                                                       |                                                                                                             |
| Electrical wires, switches, and relays | 2 Years |                                                                       |                                                                                                             |
| Suspension / Steering components       | 2 Years | Electric Motor                                                        | 2 Years                                                                                                     |
| Seats                                  | 2 Years | Motor Controller / Charger                                            | 2 Years                                                                                                     |
| Sun Top                                | 2 Years | Charger Cord                                                          | 2 Years                                                                                                     |
| Bumpers / Body Parts                   | 2 Years | Charger Receptacle                                                    | 2 Years                                                                                                     |
| Floor Mats                             | 2 Years | Throttle Position Sensor                                              | 2 Years                                                                                                     |
| Scorecard Holders                      | 2 Years | GAS Car specific                                                      |                                                                                                             |
| Bag Carrier                            | 2 Years | Exhaust / Intake / Generator                                          | 2 Years                                                                                                     |
| Common Accessories                     |         | Gas Engine                                                            | 2 Years                                                                                                     |
| Windshield                             | 3 Years | Throttle Cables / Controls                                            | 2 Years                                                                                                     |
| Head Light                             | 2 Years | Battery                                                               | 1 Years                                                                                                     |
| Tail Light                             | 2 Years | Clutch (excluding drive belt)                                         | 2 Years                                                                                                     |
|                                        |         | All Remaining Parts                                                   |                                                                                                             |
|                                        |         | 1 years                                                               |                                                                                                             |

**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.

This Limited Warranty does not cover any parts replaced due to normal wear or routine maintenance, including oil and air filter elements, brake shoes, 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, are also excluded from this warranty.

**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, and 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:** This warranty is to the original owner only and is not transferable.

Yamaha Golf-Car Company makes no other warranty of any kind, expressed or implied. All implied warranties of merchantability and fitness 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 only 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 give 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: 7/1/16

# 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 and 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.

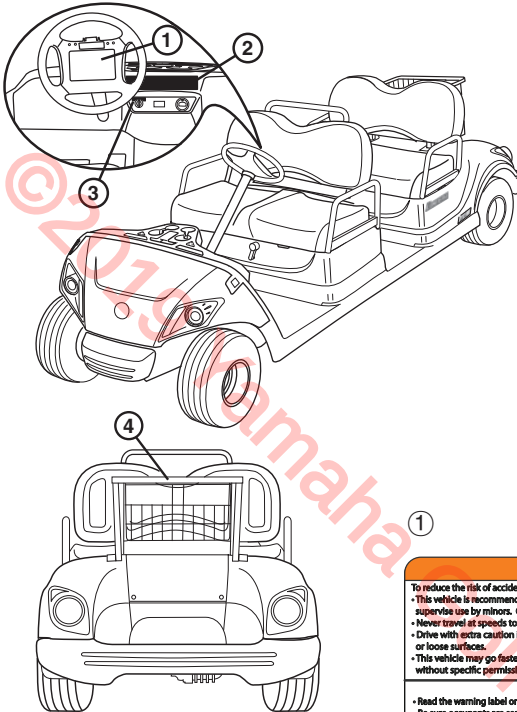
### WARRANTED PARTS:

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:

**NOTICE:** Yamaha Golf-Car Company does not approve the use of high-pressure washers to clean the products they manufacture. Doing so may damage the finish on the body or result in doing other damage not covered by warranty.

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 Canister
13. Canister Mounting Brackets

# IMPORTANT LABELS



## ⚠ SAFETY AND INSTRUCTION LABELS

### ⚠ WARNING

Please read the following labels carefully before operating your four-passenger vehicle, 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.



**⚠ WARNING**

To reduce the risk of accidents and injury or DEATH:

- This vehicle is recommended only for operators 16 and older with a valid motor vehicle license. Adults must supervise use by minors. Check state laws for minimum age requirements.
- Never travel at speeds too fast for the terrain, visibility conditions, or your experience.
- Drive with extra caution in congested areas, when operating in reverse, and when driving on wet, rough, or loose surfaces.
- This vehicle may go faster than the intended speed for golf course pathways. Do not use on such pathways without specific permission from golf course management.

**OPERATING INSTRUCTIONS**

- Read the warning label on the beverage holder panel before operating.
- Be sure occupants are seated.
- Select "FORWARD" OR "REVERSE" then turn main switch to "ON".
- Press the accelerator pedal to start moving. The motor will start and the parking brake will release automatically.
- To stop, release the accelerator pedal and press the brake pedal. Press the parking brake until it locks whenever leaving the vehicle.
- Come to a complete stop before reversing direction.
- Read the Owner's/Operator's Manual for more information.

**ATTENTION**

- This vehicle was not manufactured for use on public streets and does not comply with federal motor vehicle safety standards applicable to passenger cars.
- This vehicle is capable of speeds over 15 mph (24 kph) and therefore does not conform to standards for golf cars (ANSI Z130.1).

YAMAHA JC0-K7762-00

### ⚠ 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.

- Drive slowly straight up and down slopes.
- Set parking brake before leaving vehicle.
- Turn main switch to "OFF" and remove key when not in use.
- Do not operate while under the influence of alcohol or drugs.
- maximum loading: 400lb (181kg) per bench seat 100lb (45kg) in bagwell.

YAMAHA

REV

FWD OFF ON

ON

JC0-K7768-60

### ⚠ WARNING

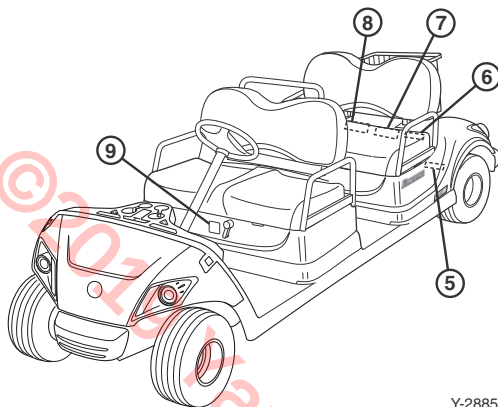
**"Do not stand or sit in this area. You could fall and be injured."**

YAMAHA

JR8-K7765-00

# IMPORTANT LABELS

2



Y-2885

## SAFETY AND INSTRUCTION LABELS

### WARNING

Please read the following labels carefully before operating your four-passenger vehicle, 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.

⑤

#### Important Emissions Information Yamaha Golf-Car Company

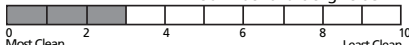
THIS EQUIPMENT CONFORMS TO 2010 CALIFORNIA EVP REGULATIONS FOR SMALL OFF-ROAD ENGINES UNDER 13CV (SECTION 2766(D)). THIS ENGINE MEETS 2010 CALIFORNIA EMISSION REGULATIONS, AND CONFORMS TO PHASE 2 U.S. EPA REGULATIONS FOR SMALL OFF-ROAD ENGINES. EMISSIONS COMPLIANCE PERIOD: CATEGORY A (EPA)

EP: XXXXX XXXXX DISPLACEMENT: XXXcc  
DOME: XXX XXXX EMISSION CONTROL SYSTEM: XX  
THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE EVAPORATIVE CODE: XXXXXXXX

|                            |                          |
|----------------------------|--------------------------|
| MAINTENANCE SPECIFICATIONS | ENGINE OIL: SAE 10W-30   |
| IGNITION TIMING: 27 BTDC   | SPARK PLUG GAP: .028-031 |

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.

Y-1599x

⑥

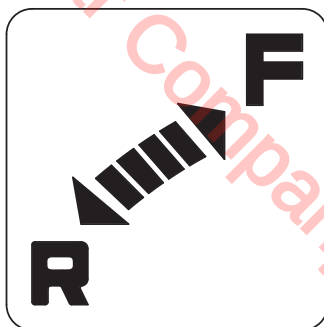
DATE OF CONSTRUCTION: JAN. 2017 MY2017  
YAMAHA MOTOR POWERED PRODUCTS CO., LTD  
200-1 SAKAGAWA, KAKEGAWA, JAPAN



MAX. BATTERY WEIGHT: 19 kg MODEL: DR2A17 PTV-4 PASS  
NOMINAL SYSTEM VOLTAGE: 12V MAX. POWER: 8.9 hp (6.7 kW)  
FUEL TYPE: UNLEADED GASOLINE DRY WEIGHT: 441.6 kg  
VEHICLE LOAD CAPACITY: 181 kg PER SEAT, 45 kg BAGWELL

128-F4136-00

⑨



Y-1610

⑧

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

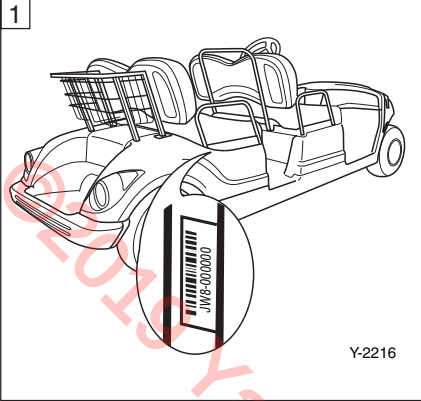
JNB-H2377-00

Y-1606

⑦

| WARNING |                                                                                                                                                                                                                                                                                                                                                                                                                | AVERTISSEMENT                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | <p><b>GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE.</b> A fire or explosion could cause SEVERE INJURY or DEATH.</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><b>OPERATION AT HIGHER SPEEDS COULD CAUSE LOSS OF CONTROL THAT COULD RESULT IN SEVERE INJURY OR DEATH.</b></p> <ul style="list-style-type: none"> <li>Do not tamper with governor to increase speed.</li> </ul> | <p><b>L'ESSENCE EST HAUTEMENT FLAMMABLE ET EXPLOSIF.</b> Un feu ou une explosion pourraient provoquer la BLESSURE SEVERE ou la MORT.</p> <ul style="list-style-type: none"> <li>Garder étincelles, flammes et chaleur loin du réservoir à essence et des tuyaux à carburant.</li> <li>Ne pas ajouter d'essence pendant que le moteur est chaud.</li> <li>Ne pas modifier le système d'alimentation.</li> <li>Toute révision doit être faite chez le fournisseur ou par du personnel qualifié.</li> </ul> |
|         | <p><b>YAMAHA</b></p>                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                    | <p><b>JWY-KB297-01</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

# IMPORTANT LABELS

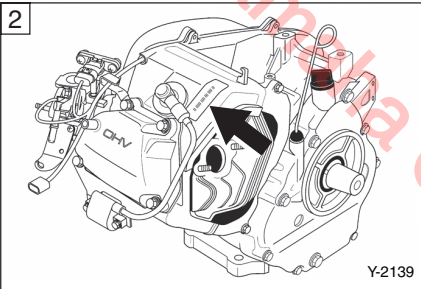


## FOUR-PASSENGER VEHICLE SERIAL NUMBER

The vehicle 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.

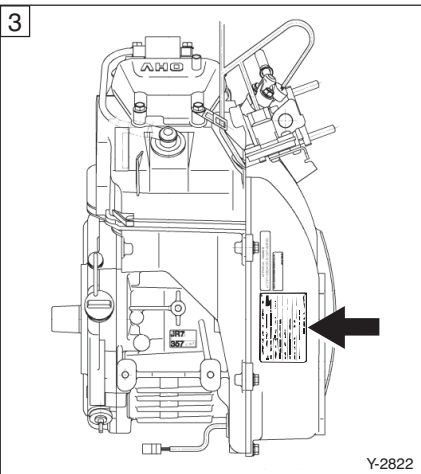


The engine serial number ② is affixed in the location shown.

## 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 (ASHmm)                | IN: **_** | EX: **_** |  |
| IGNITION TIMING & IDLE 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 HONKROAD ENGINES.</small> |                     |                              |           |           |  |
| YAMAHA MOTOR CO., LTD.                                                                                                                                                                     |                     |                              |           |           |  |

Y-851a





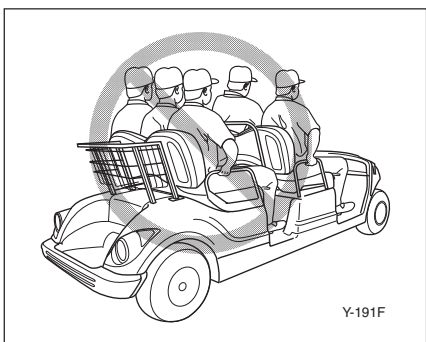
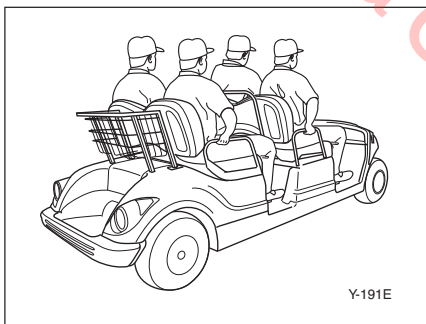
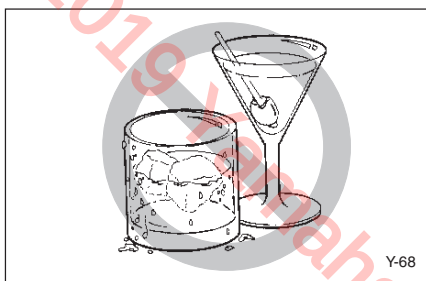
## OPERATOR SAFETY

3

Yamaha vehicles 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 VEHICLE

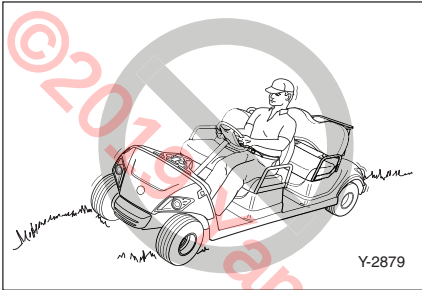
- Read this Owner's/Operator's manual and all safety and instruction labels on the vehicle before operating.
- Perform the pre-operation checks found in Section 6 of this manual.
- Only authorized people should drive the vehicle, from the driver's side only, and only in designated areas.
- Do not allow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



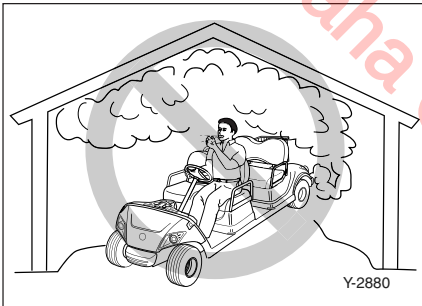


## OPERATOR SAFETY

### WHILE OPERATING THE FOUR-PASSENGER VEHICLE



Y-2879



Y-2880



Y-2881

- Keep your entire body inside the vehicle, remain seated and hold on when the vehicle is in motion.
- Do not start the vehicle until all occupants are seated.
- Keep your hands on the steering wheel and your eyes on the path ahead.
- 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 vehicle to match the terrain of the course.
- Avoid turning the steering wheel too sharply at higher speeds.
- Always drive slowly straight up or straight down slopes – never at an angle.
- All occupants should remain inside the vehicle, remain seated, and hold on when the vehicle is in motion.
- Do not run the engine indoors. Exhaust gas is poisonous and could result in carbon monoxide poisoning.
- Do not start the vehicle until all occupants are seated and holding on, with their entire bodies inside the vehicle.
- Do not use rear seat for cargo or luggage storage. Rear seat is to be used for one- or two-person occupancy only.
- 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

4

Like all machines, four-passenger vehicles can cause injury if improperly used or maintained. This section contains broad safety practices required for safe vehicle operation.

Experience has shown that four-passenger vehicles are safe when operated in accordance with the safety warnings affixed to every vehicle. This safe operation is enhanced when vehicles are used according to the safety rules and practices established to meet the terrain and conditions of the course on which they are used.

If you are responsible for the operation and maintenance of this vehicle, we encourage you to implement this vehicle safety program.

### DRIVER QUALIFICATIONS

Only authorized people should operate the vehicle. It is recommended that only people who possess a valid motor vehicle driver's license be allowed to operate the vehicle.

Place operation and safety instructions recommended by the vehicle manufacturer in a conspicuous place near the vehicle rental area or pick-up area. It is also recommended that the following warning be posted in a conspicuous location:

#### WARNING

**Do not operate the vehicle 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 vehicle.**

### HAZARD PREVENTION

Drivers should be mindful of road hazards and avoid dangerous situations that may include the following:

- **Steep Grades** – Where steep grades exist, restrict the vehicle to designated roadway or path, and descend slowly with foot on the brake.

#### 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 vehicle.**

- **Sharp Turns, Blind Corners and Bridge Approaches** – Adhere to all warning signs and take proper precautions to avoid the hazard.
- **Wet Areas** – Wet grass may cause a vehicle to lose traction and may affect stability. Vehicle operators should reduce speed in wet areas or during periods of inclement weather.



## SAFETY CONSIDERATIONS

- **Loose Terrain** – Avoid areas of loose terrain that may cause a vehicle to lose traction and affect stability. Take notice of conditions and reduce speed when driving on uneven or loose terrain.

- **Four-Passenger Vehicle and Pedestrian Interference** –

Avoid areas with pedestrian traffic or congested areas whenever possible to prevent accidents. If it is impractical to avoid these areas, always remember that pedestrians have the right of way. When approaching pedestrian or congested areas, always reduce speed, drive slowly, use caution and watch for pedestrians.

## MAINTENANCE REQUIRED FOR FOUR-PASSENGER VEHICLE SAFETY

Practice the following to help ensure the safety of vehicle operators and passengers:

- **Preventative Maintenance.** Perform all scheduled maintenance in accordance with manufacturer's recommendations to provide the user with a safe, properly operating vehicle.
- **Personnel.** Allow only qualified, trained, and authorized personnel to inspect, adjust and maintain the vehicle.
- **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 vehicle storage areas. Ventilation is also required to remove hydrogen gas from the vehicle storage areas during the battery charging process.



## 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 the four-passenger vehicle before beginning any maintenance to avoid any unexpected vehicle movement.
- Properly block the chassis before working underneath vehicle to avoid any unexpected vehicle movement.
- 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.
- Use only properly insulated tools when working around batteries to avoid electrical shock or damage to the electrical system.
- Before performing any maintenance, disable the vehicle's electrical system in accordance with the manufacturer's instructions.
- 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 vehicle must be driven by a qualified, trained and authorized person — in an area free of pedestrian traffic — to ensure proper operation and adjustment.

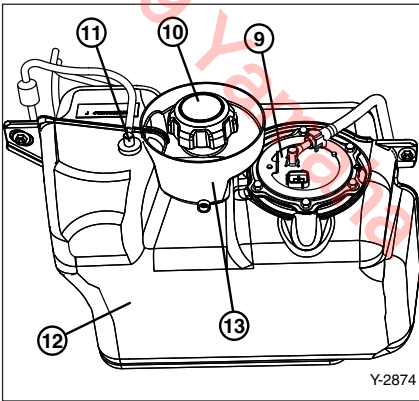
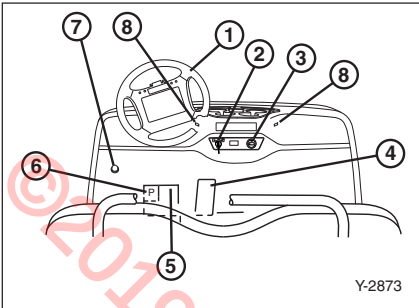
- Record all maintenance performed in a maintenance record log by date, name of person performing maintenance and type of maintenance. Periodically inspect maintenance log to ensure accurate and complete entries.
- Provide operator comment cards to assist in identifying non-periodic maintenance needs for specific four-passenger vehicles.
- 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

Take the following precautions to ensure maintenance worker safety:

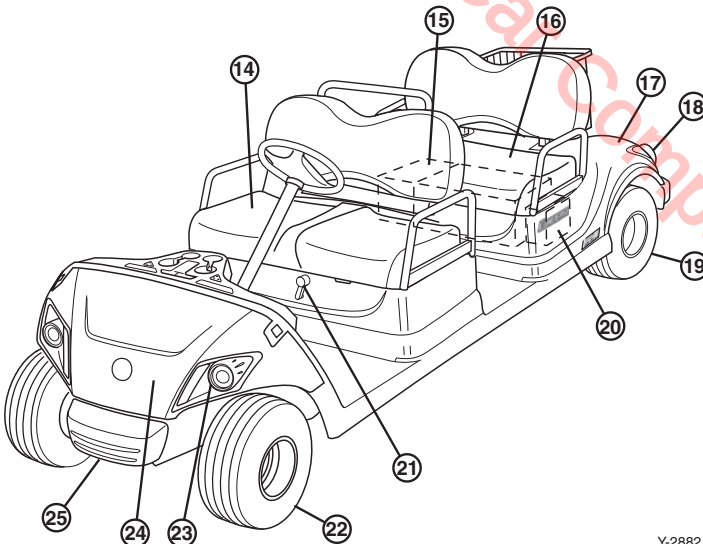
- Supervise the storage and handling of liquid fuels in accordance with applicable fire and safety requirements to avoid any fires or explosions.

# CONTROLS

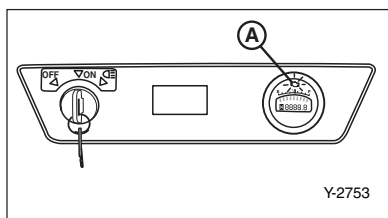
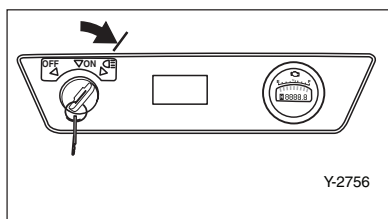
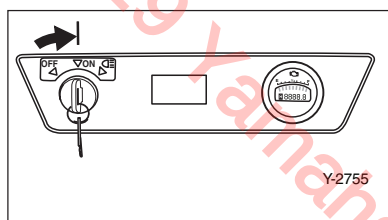
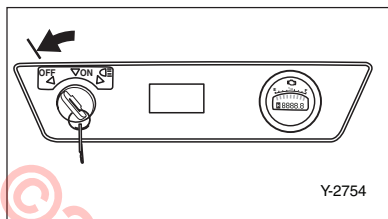


## FEATURES

- |                                           |                       |
|-------------------------------------------|-----------------------|
| ① Steering wheel                          | ⑫ Fuel tank           |
| ② Main switch                             | ⑬ Cover filler funnel |
| ③ Engine/oil warning/fuel gauge/hourmeter | ⑭ Front seat          |
| ④ Accelerator pedal                       | ⑮ Fuel tank           |
| ⑤ Brake pedal                             | ⑯ Rear seat           |
| ⑥ Parking brake pedal                     | ⑰ Rear body           |
| ⑦ Horn switch                             | ⑱ Taillights          |
| ⑧ USB ports                               | ⑲ Rear tire           |
| ⑨ E.F.I. fuel pump                        | ⑳ Battery             |
| ⑩ Fuel cap                                | ㉑ Drive select lever  |
| ⑪ Fuel tank vent                          | ㉒ Front tire          |
|                                           | ㉓ Headlights          |
|                                           | ㉔ Front body          |
|                                           | ㉕ Front bumper        |



# 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 four-passenger vehicle can be driven.

### “ON” WITH LIGHTS

The functions for this position are the same as for the ON position; however, this position will activate the headlights and taillights.

## ENGINE/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.**

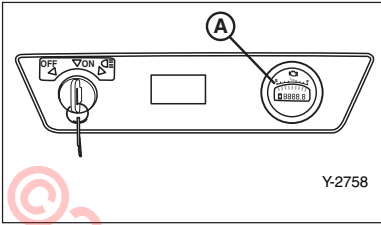
When the engine/oil warning light is flashing while the key is on, there may be a problem with the fuel injection system, which may affect performance, emissions and fuel economy or cause damage to the fuel injection system or engine.

### NOTICE

**If the light is flashing, do not operate the vehicle. Contact your Yamaha Service representative to have the vehicle serviced.**

Ⓐ Engine/oil warning light

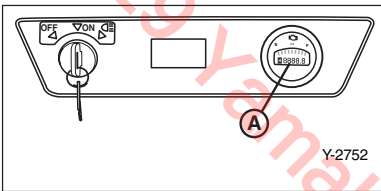
# CONTROLS



## FUEL GAUGE

The fuel gauge displays the fuel level in the fuel tank. The fuel gauge will only work when the key is in the ON position.

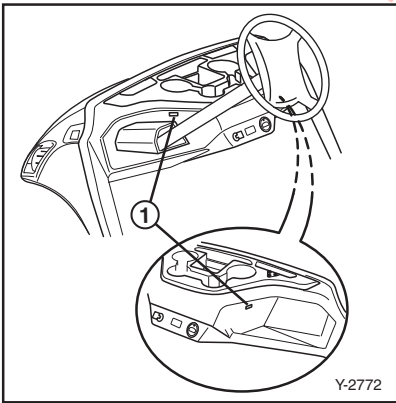
- Ⓐ Fuel gauge



## HOUR METER

The hour meter displays the total number of hours the vehicle has been run. Use the hour meter to determine when scheduled maintenance is due.

- Ⓐ Hour meter



## USB PORTS

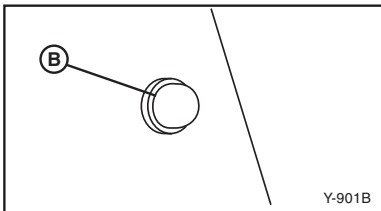
A USB port is located inside the dash on the driver side and passenger side. These can be used to power or charge USB devices or accessories. The USB is only powered when the key is in the ON position.

- ① USB port

## HORN SWITCH

The horn is located adjacent to the brake pedal, and is activated by depressing with your foot.

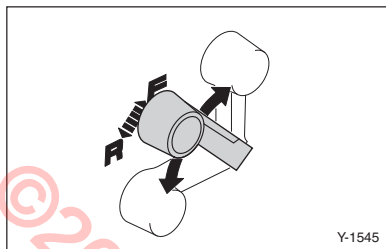
- Ⓑ Horn switch



## TIP

It is advisable to sound the horn when approaching blind corners.

# CONTROLS

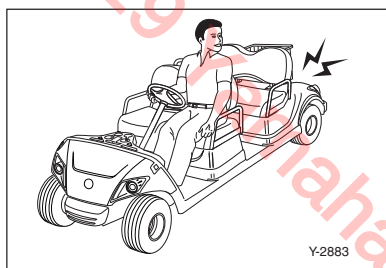


## DRIVE SELECT LEVER

The drive select lever is used to shift the four-passenger vehicle into forward or reverse. After coming to a complete stop, move the lever to the desired position.

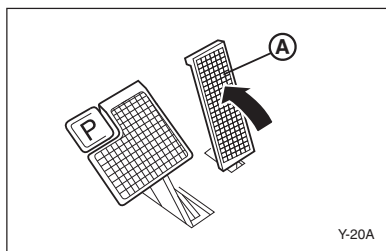
| Lever Position | Vehicle Movement |
|----------------|------------------|
| F              | FORWARD          |
| R              | REVERSE          |

5



## TIP

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

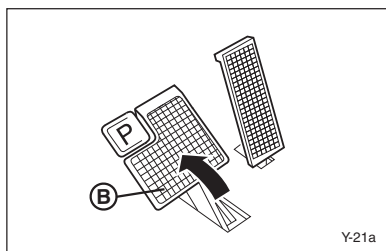


## ACCELERATOR PEDAL

The accelerator pedal controls the vehicle's speed.

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

Ⓐ Accelerator pedal

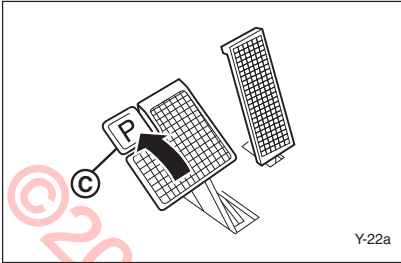


## BRAKE PEDAL

Press down on the brake pedal to stop the four-passenger vehicle.

Ⓑ Brake pedal

# CONTROLS



## PARKING BRAKE PEDAL

Press down on the parking brake pedal whenever parking the four-passenger vehicle.

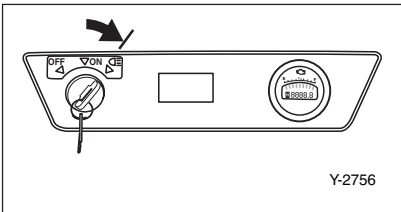
© Parking brake pedal

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



## HEADLIGHT/TAILLIGHT ON POSITION

Turn the main switch all the way to the right to the second ON position. This will activate the headlights and taillights.

# PRE-OPERATION CHECKS

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

## **⚠ WARNING**

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

- Remove main switch key.
- Apply parking brake.

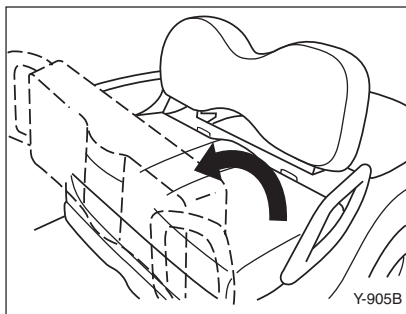
Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

## PRE-OPERATION CHECKS

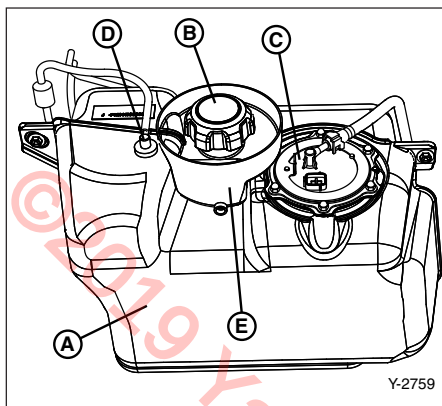
Refer to the Periodic Maintenance charts on pages 8-1 and 8-2.

## SEAT

Open the rear seat for checking and servicing.



# PRE-OPERATION CHECKS



## FUEL SYSTEM

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

- Ⓐ Fuel tank
- Ⓑ Fuel cap
- Ⓒ E.F.I fuel pump
- Ⓓ Fuel tank vent
- Ⓔ Cover filler funnel

### ⚠ 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 until a clicking sound is heard.

### ⚠ 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.**

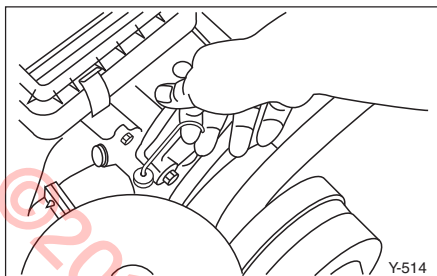
**If any gasoline gets on your skin, immediately wash with soap and water. Change clothing if gasoline spills on it.**

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.

# PRE-OPERATION CHECKS



## NOTICE

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

## ENGINE OIL

With the four-passenger vehicle 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).

- (A) Oil level dipstick
- (B) Maximum oil level
- (C) 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.

- (D) Oil filler hole

## NOTICE

- 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.

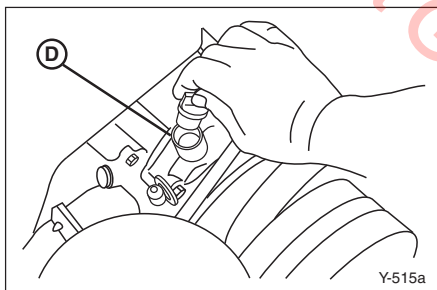
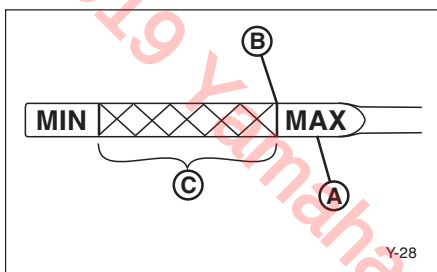
## TIP

The distance between the dipstick marks represents approximately 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.

6

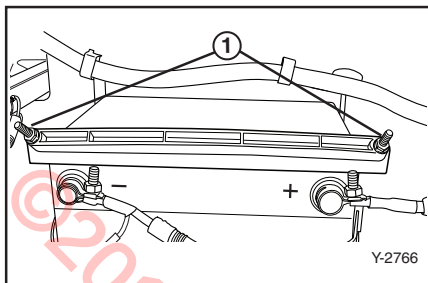


Recommended oil:  
YAMALUBE SAE 10W-30  
4-cycle oil

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

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

# PRE-OPERATION CHECKS



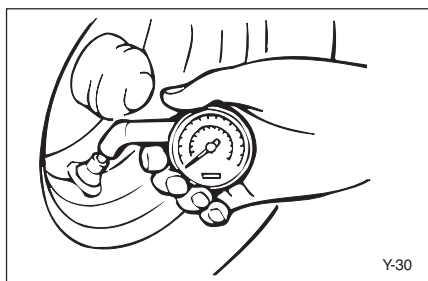
## BATTERY

Check that the battery is held securely in place to prevent the battery from being damaged from vibration or jarring. Tighten the battery hold-down nuts if loose. Also check that the battery cap is not missing to prevent battery acid from spilling from the battery. Check the battery terminals for corrosion.

- ① Battery hold-down nuts

## ⚠ 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.**



## TIRE CONDITION

### Tire Air Pressure

Check the tire air pressure before operating the four-passenger vehicle.

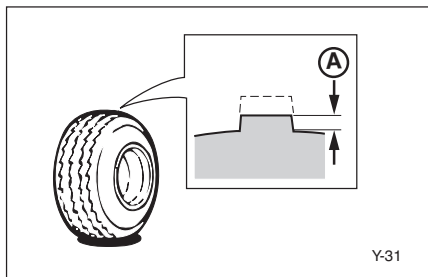
Tire pressure:

117 kPa, 1.1 kgf/cm<sup>2</sup> (22 psi)

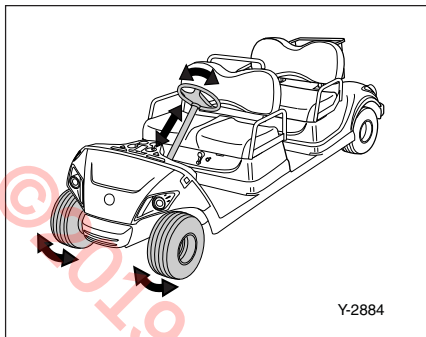
### Tire Wear Limit

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

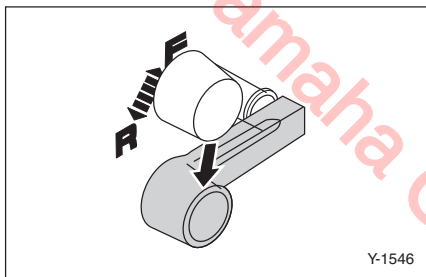


## STEERING SYSTEM

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

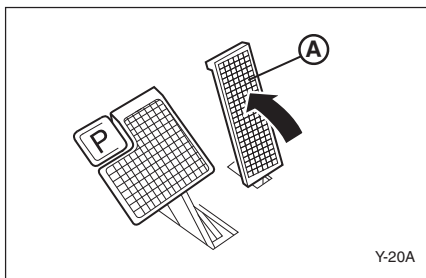
Check the following pedal controls for proper operation. If a pedal does not work properly, consult a Yamaha dealer.

### Accelerator Pedal

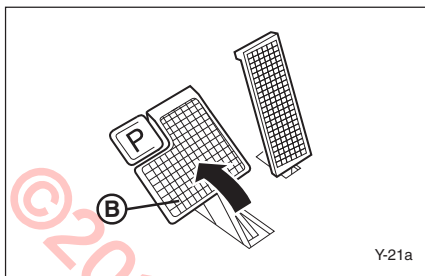
#### **WARNING**

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

- Ⓐ Accelerator pedal



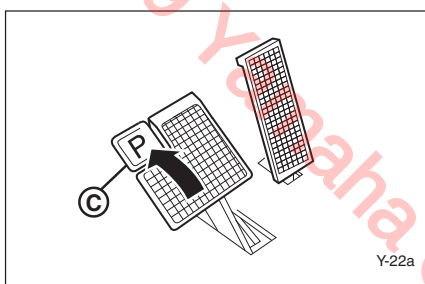
# PRE-OPERATION CHECKS



## Brake Pedal

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

Ⓑ Brake pedal



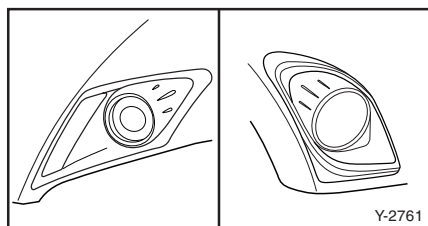
## Parking Brake Pedal

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.

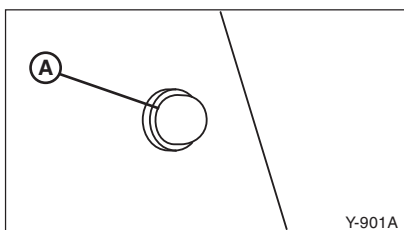


## Headlights/Taillights

Ensure the headlights and taillights are operational.

### WARNING

**Never operate the vehicle at night or during inclement weather without properly working headlights/taillights. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.**



## Horn Switch

Make sure the horn operates correctly.

Ⓐ Horn switch

# OPERATION

## BODY AND CHASSIS

Before each use, visually inspect the vehicle body and chassis for damaged and/or missing parts.

## 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 vehicle is moving. Transmission damage can result.**

2. Turn the main switch to "ON."

### ⚠ WARNING

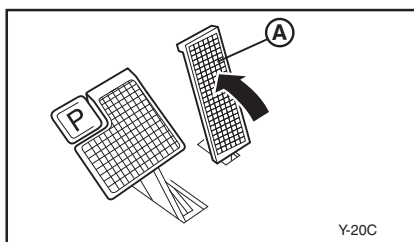
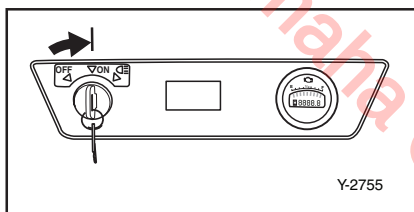
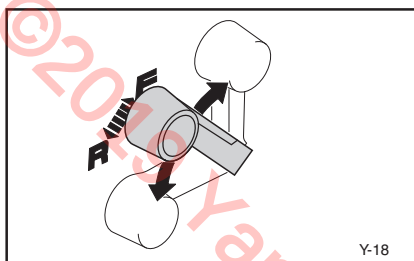
**Do not depress the accelerator pedal when turning on the main switch or the vehicle may suddenly start moving. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.**

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

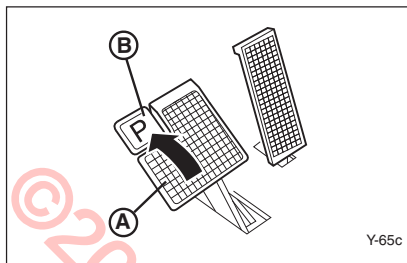
Ⓐ Accelerator pedal

## TIP

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



# OPERATION



## STOPPING

To stop the vehicle, gradually press down on the brake pedal.

- Ⓐ Brake pedal

When the vehicle 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 vehicle 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 four-passenger vehicle.

### ⚠ 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.

### NOTICE

Yamaha Golf-Car Company does not approve the use of high-pressure washers to clean the products they manufacture. Doing so may damage the finish on the body or result in doing other damage not covered by warranty.

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

|                | Remarks                                                               | Daily Pre-Operation | 40 Rounds<br>20 hours<br>100 miles<br>160 kms<br>(Every month) | 250 rds<br>125 hrs<br>600 mls<br>1000 kms<br>(Every 6 months) | 500 rds<br>250 hrs<br>1200 mls<br>2000 kms<br>(Every year) | 1000 rds<br>500 hrs<br>2500 mls<br>4000 kms<br>(Every 2 years) | 2000 rds<br>1000 hrs<br>5000 mls<br>8000 kms<br>(Every 4 years) | Page        |
|----------------|-----------------------------------------------------------------------|---------------------|----------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-------------|
| PRE-OP         | Check engine oil                                                      | CS                  | CS                                                             | CS                                                            |                                                            |                                                                |                                                                 | 6-3         |
|                | 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 and corrosion of battery terminals and hold downs | CS                  | CS                                                             | CS                                                            | CS                                                         | CS                                                             | CS                                                              | 6-4         |
|                | Check brake pedal free play and adjust if necessary                   | CS                  | CA                                                             | CA                                                            | CA                                                         | CA                                                             | CA                                                              | 8-15        |
|                | Check steering operation                                              | CS                  | CS                                                             | CS                                                            | CS                                                         | CS                                                             |                                                                 | 6-5         |
|                | Check tire pressure, tread depth, tire surface for damage             | CS                  | CA                                                             | CA                                                            | CA                                                         | CA                                                             | CA                                                              | 6-4         |
|                | Check body and chassis for damage                                     | CS                  | CS                                                             | CS                                                            | CS                                                         | CS                                                             | CS                                                              | 7-1         |
|                | Check tightness of all bolts, nuts, screws and rivets                 | CS                  | CS                                                             | CS                                                            | CS                                                         | CS                                                             | CS                                                              | *           |
|                | Check reverse alarm operation                                         | CS                  | CS                                                             | CS                                                            | CS                                                         | CS                                                             | CS                                                              | 6-5         |
| EVERY MONTH    | Check for debris in intake air duct, tubing and connection            |                     | CS                                                             |                                                               |                                                            |                                                                |                                                                 | 8-9         |
|                | Check wear of drive belt                                              |                     | CS                                                             | CS                                                            | CS                                                         | CS                                                             | CS                                                              | 8-8/<br>8-9 |
|                | Check operation of Forward / Reverse shifting                         |                     | CS                                                             | CS                                                            | CS                                                         | CS                                                             | CS                                                              | 7-1         |
|                | Clean / Lube pedal control area                                       |                     | CL                                                             |                                                               |                                                            |                                                                |                                                                 | *           |
| EVERY 6 MONTHS | Wash pre-filter, check air cleaner element                            |                     |                                                                | S                                                             | S                                                          | S                                                              | S                                                               | 8-7/<br>8-8 |
|                | Check spark plug and plug cap condition** / Check compression         |                     |                                                                | CS                                                            | CS                                                         | CS                                                             | CS                                                              | 8-4         |
|                | Check shock absorbers for oil 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>5000 mls<br>8000 kms<br>(Every<br>4 years) | Page        |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|-------------|
| EVERY<br>YEAR    | Replace engine oil                                                                                                                                                                                                                          |                            |                                                                   |                                                                  | R                                                             | R                                                                 | R                                                                  | 8-5         |
|                  | Grease primary and secondary clutch                                                                                                                                                                                                         |                            |                                                                   |                                                                  | L                                                             |                                                                   |                                                                    | *           |
|                  | Adjust throttle cables,**<br>check electronic fuel injection<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                                                                 | 8-8/<br>8-9 |
|                  | 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>(primary)<br>- Inspect sheaves for wear and<br>damage<br>- Inspect weights/washer and<br>sliders for wear<br>(secondary)<br>- Inspect ramp shoes for wear<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 operation and adjust<br>pedal stop if necessary                                                                                                                                                                                       |                            |                                                                   |                                                                  | CA                                                            | CA                                                                | CA                                                                 | *           |
|                  | Adjust parking brake release                                                                                                                                                                                                                |                            |                                                                   |                                                                  | CA                                                            | CA                                                                | CA                                                                 | 8-16        |
| EVERY<br>2 YEARS | Check starter brushes for<br>wear and commutator for dirt                                                                                                                                                                                   |                            |                                                                   |                                                                  |                                                               | CS                                                                | S                                                                  | *           |
| EVERY<br>4 YEARS | Replace transmission oil                                                                                                                                                                                                                    |                            |                                                                   |                                                                  |                                                               |                                                                   | R                                                                  | *           |
|                  | Replace fuel hoses                                                                                                                                                                                                                          |                            |                                                                   |                                                                  |                                                               |                                                                   | R                                                                  | *           |
|                  | Check tightness of cylinder<br>head / Adjust valves                                                                                                                                                                                         |                            |                                                                   |                                                                  |                                                               |                                                                   | CA                                                                 | *           |
|                  | Inspect brake shoes and<br>adjust or replace if necessary                                                                                                                                                                                   |                            |                                                                   |                                                                  |                                                               |                                                                   | CS R                                                               | *           |

\* 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                         |
|-----------------------------------------|--------------------------------------|
| • ELECTRONIC FUEL INJECTION             | EFI                                  |
| • ELECTRONIC CONTROL UNIT & PLUG, SPARK | ECU                                  |
| • CRANKCASE 1 & HEAD, CYLINDER 1        | PCV (Positive Crankcase Ventilation) |
| • AIR FILTER ASSY.                      | ACL (Air Cleaner)                    |
| • MUFFLER                               | MUFF., 2                             |
| • CARBON CANISTER                       | CC                                   |
| • INVERSION VALVE                       | 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."

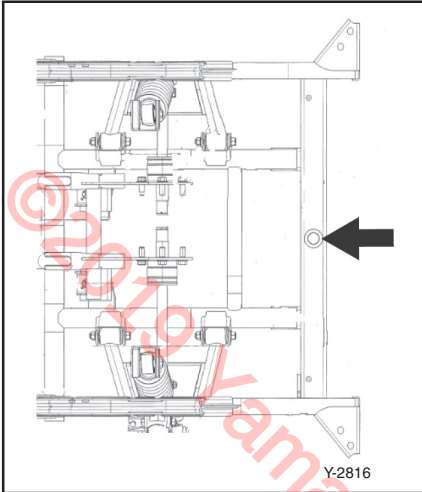
It is recommended that these items be serviced by a Yamaha dealer or other qualified mechanic.

## TROUBLESHOOTING

If the vehicle's engine will not start, use the following chart:

| Cause                                | Remedy                              |
|--------------------------------------|-------------------------------------|
| Fuel System                          |                                     |
| No fuel in tank                      | Fill fuel tank                      |
| Fuel pump inoperable                 | Consult Yamaha dealer               |
| Clogged fuel line                    | Consult Yamaha dealer               |
| Foreign matter in fuel filter        | Consult Yamaha dealer               |
| Dirty injector                       | 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



## Rear Lifting Point

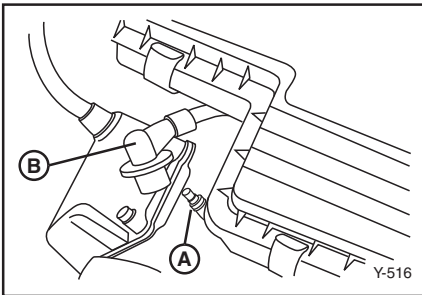
If the rear of the car needs to be lifted for a maintenance procedure, make sure it is lifted at the correct rear lifting point (see arrow).

## 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.



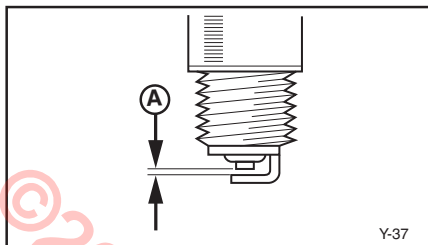
- Ⓐ Spark plug
- Ⓑ Spark plug cap

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.)

# MAINTENANCE



Ⓐ 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)

## Engine Oil Replacement

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

### ⚠ WARNING

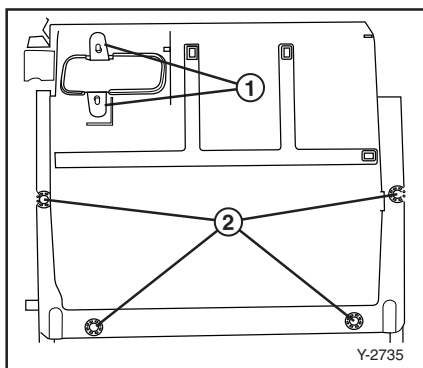
Use caution not to touch hot engine oil or hot engine parts, during the following procedure. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

### NOTICE

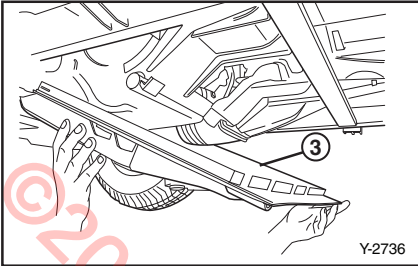
To remove the oil from the engine, an oil extraction tool can be used to extract the oil via the dipstick feed hole instead of draining out the drain plug.

2. Block rear tires and lift front end of car. Secure car with car stands.
3. Release two rubber tabs to exhaust duct and four bolts to lower panel.

- ① Rubber tabs
- ② Panel bolts



# MAINTENANCE



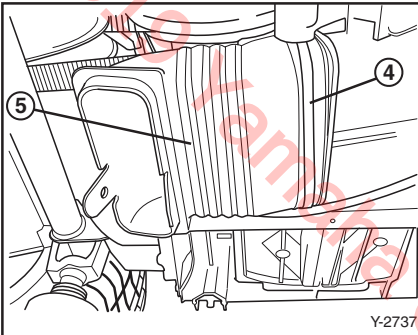
4. Tip the front of the lower panel down and remove the panel.

③ Lower panel

5. Remove tie strap, then remove rubber exhaust duct from plastic duct.

④ Tie strap

⑤ Exhaust duct



6. Place an oil pan under the engine drain plug.

7. Remove the oil drain plug and let the oil drain completely.

⑥ Drain plug

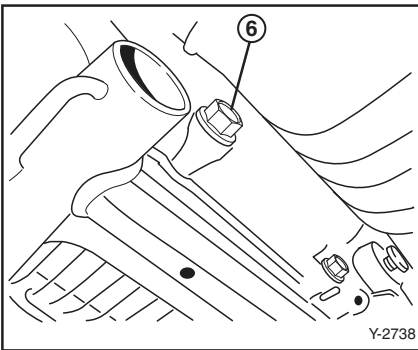
## TIP

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

8. 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)

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

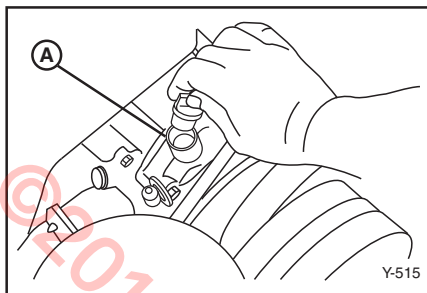


Recommended oil:  
Yamalube SAE 10W30 4-cycle oil

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



## TIP

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

- Ⓐ Oil filler hole

## NOTICE

**Use care not to fill past the MAX dipstick mark, and be sure no foreign material enters the crankcase.**

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

10. Reinstall exhaust duct and secure by using a new tie strap.
11. Install panel and mount with four bolts.
12. Secure rubber tabs of exhaust duct to panel.

## Air Filter

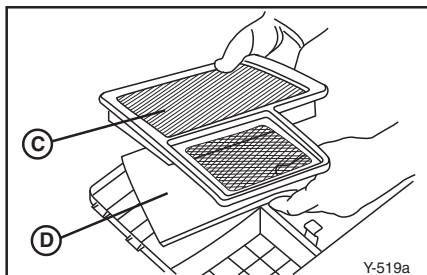
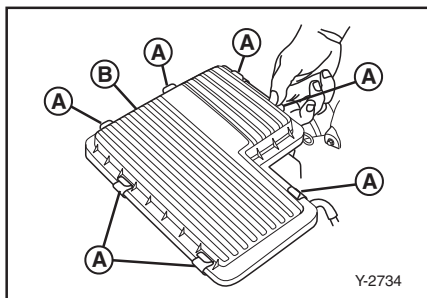
To remove the air filter elements:

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

- Ⓐ Air filter cover clips
- Ⓑ Air filter cover

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

- Ⓒ Air filter
- Ⓓ Pre-filter



# MAINTENANCE

## 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.

- Ⓐ Soap and water
- Ⓑ Foam element

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

## NOTICE

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

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

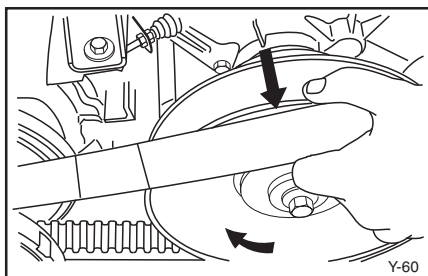
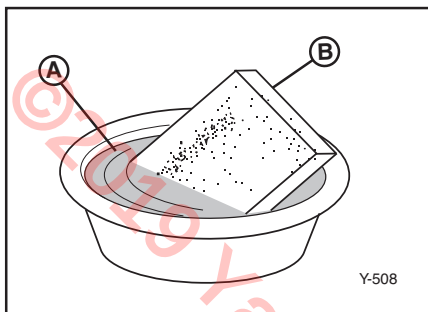
## NOTICE

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

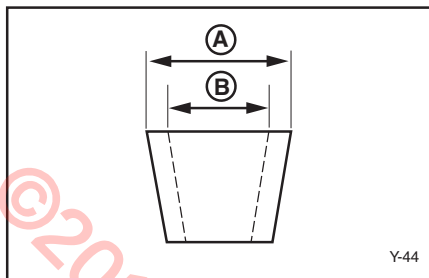
## Drive Belt

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.



# MAINTENANCE



## 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.

## Clutch

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

## Air Duct

Check for debris in intake tube:

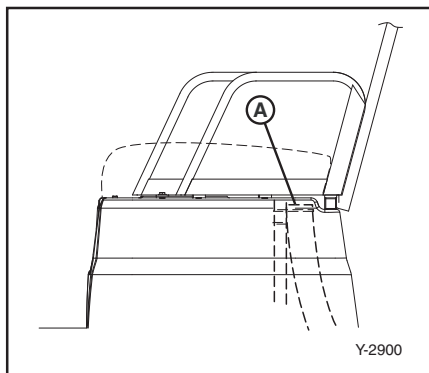
1. Park the vehicle on a flat, level surface and apply the parking brake.
2. Remove the seat.
3. Clean out any dirt or debris from the intake tube next to the front passenger arm rail.

- (A) Intake tube

4. After removing debris, install the seat.

## 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.



# MAINTENANCE

## **⚠ 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.

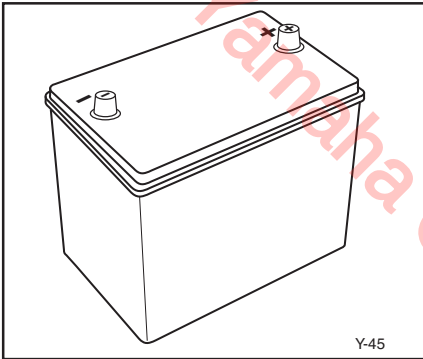
**INTERNAL:** Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately.

**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.**



## Fuse Replacement

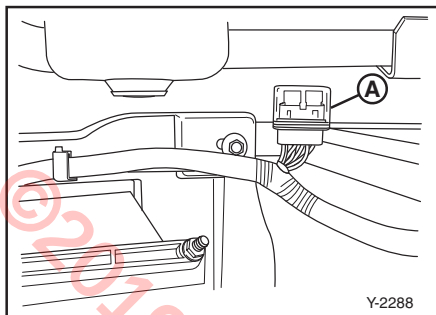
## **⚠ WARNING**

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.

# MAINTENANCE

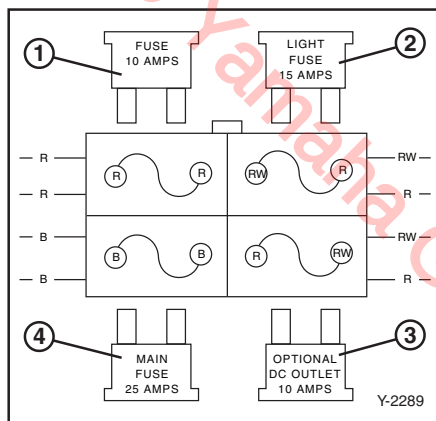


1. Locate the in-line fuse box in the battery compartment.
2. Pull fuse holder cover off.
3. Pull fuse out, inspect and replace if necessary.

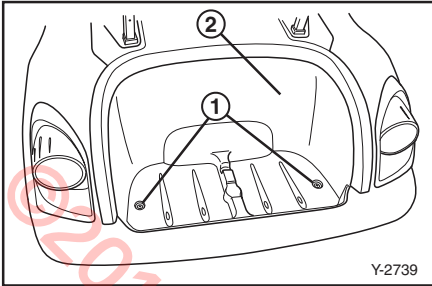
Ⓐ Fuse box

## Fuse Type:

- ① DC Outlet Fuse (10A), Blade Style
- ② Light Fuse (15A), Blade Style
- ③ Fuse (10A), Blade Style
- ④ 25 Amp, Blade Style (MAIN)  
Fuse location off of negative battery terminal @ 15 cm (6 in.)



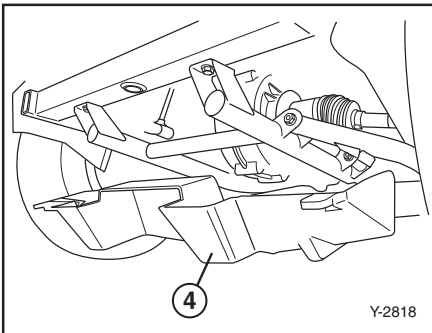
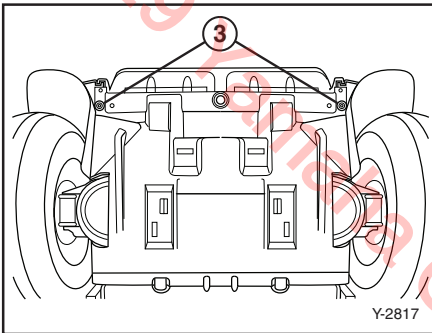
# MAINTENANCE



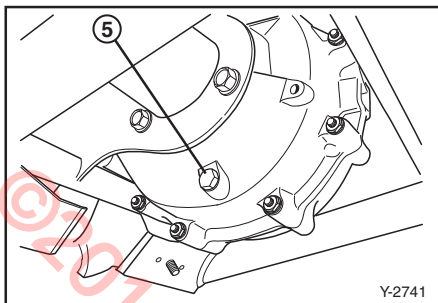
## Transmission Oil

To replace transmission oil:

1. Place the vehicle on a flat, level surface.
2. Remove two bolts ① and the bag holder insert ②.
3. Block rear tires and lift front end of vehicle. Secure vehicle with car stands.
4. Remove the two panel retaining bolts for the lower panel.
- ③ Panel bolts
5. Tip the front of the lower panel down and unhook the front of the panel to remove the panel.
- ④ Lower panel
6. Place an oil pan under the transmission.



# MAINTENANCE

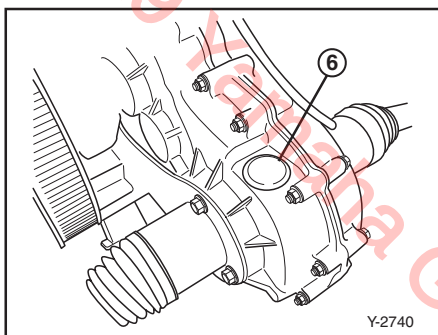


7. Remove the drain plug from the transmission and allow the oil to drain completely.

⑤ Oil drain plug

## TIP

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



8. Install the drain plug.

9. Remove the oil fill plug on top of the transmission.

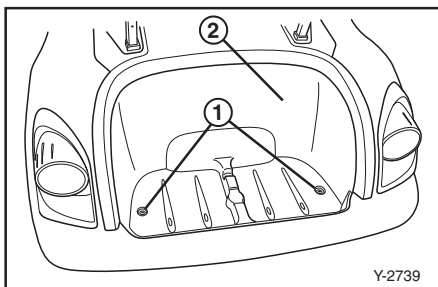
⑥ Oil fill plug

10. Fill the transmission with 16.06 oz (475 cc) and replace the oil fill plug.

11. Install the lower panel and exhaust duct tabs.

12. Install the bag holder insert ② and secure with two bolts ①.

8



Recommended oil:  
YAMALUBE SAE 80W-90 Gear Oil

Transmission oil capacity:  
475 cc (16.06 oz)

Transmission oil change quantity:  
475 cc (16.06 oz)

# MAINTENANCE

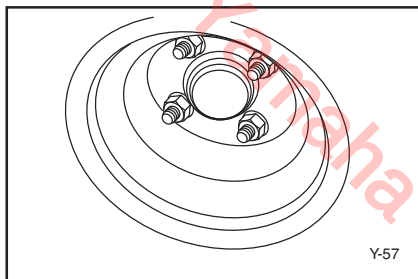
## **⚠ WARNING**

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 vehicle:

1. With the wheels blocked to prevent the vehicle from moving, loosen the wheel nuts.
2. Elevate the vehicle 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

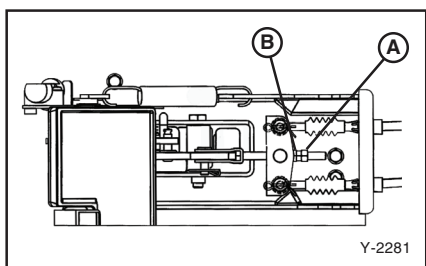
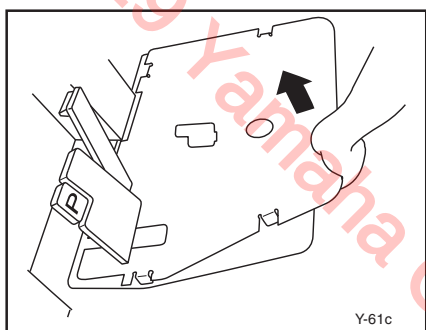
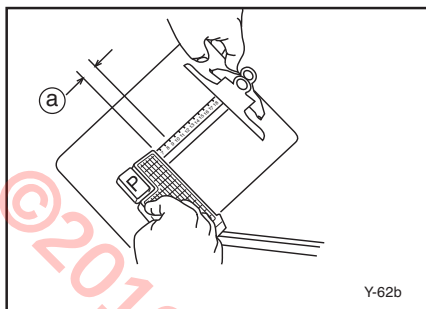
The brakes on your vehicle are self-adjusting.

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

## **⚠ WARNING**

Consult your Yamaha dealer before using your vehicle 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.)

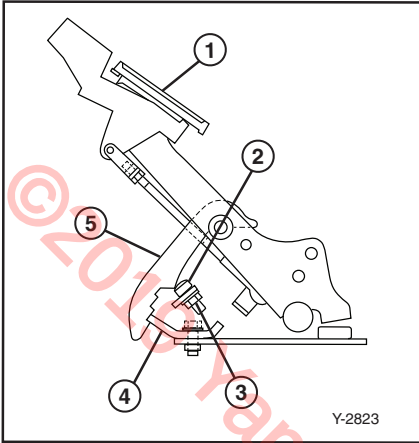
To adjust the brake pedal free play:

1. Remove the floor mat and service lid from the floor of the vehicle.
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 vehicle. Premature brake wear can result. Death or serious personal injury can result from failing to comply with the warning labels in this manual.**

# MAINTENANCE



## Parking Brake Release Adjustment

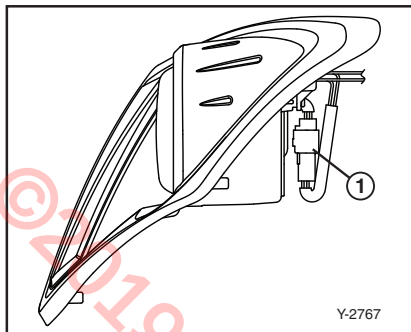
### NOTICE

**Before performing parking brake release adjustment, adjust brake pedal free play.**

1. Apply pressure to the parking brake pedal until the brake nail catches the first latch position on the sector.
2. Loosen the locknut and turn the bolt counterclockwise until it contacts the sector.
3. Turn the bolt clockwise  $\frac{3}{8}$  (120 degrees), then tighten locknut.

- ① Parking brake pedal
- ② Bolt
- ③ Locknut
- ④ Brake nail
- ⑤ Sector

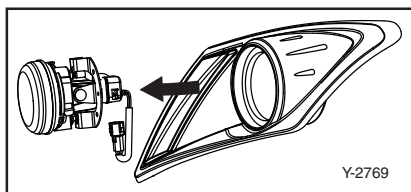
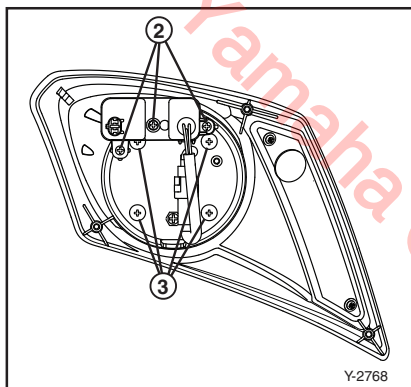
# MAINTENANCE



## Replacing a Headlight Bulb

If the headlight burns out, replace it as follows:

1. Disconnect the wire connector ① from the headlight assembly.
2. Remove the three screws ② and remove the light control unit.
3. Remove the four screws ③ to remove the headlight assembly from the holder.
4. Remove the headlight assembly from the holder.
5. Install new headlight assembly into holder and secure with the four screws.
6. Install the light control unit and fasten with three screws.
7. Connect the wire connector to the headlight assembly.



# MAINTENANCE

## Adjusting a Headlight

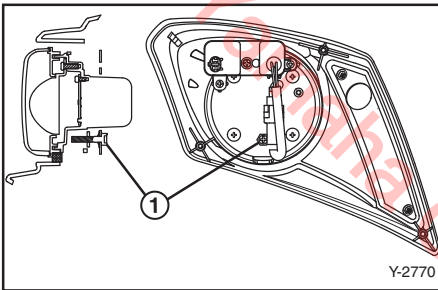
### NOTICE

It is recommended to have the headlight adjustment performed by a Yamaha dealer.

### TIP

The screw can be accessed from under the fender.

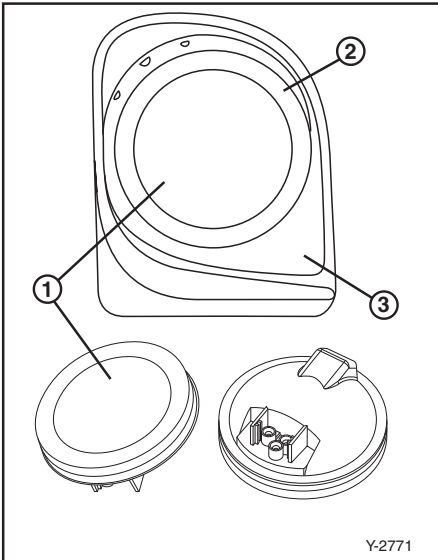
1. Using a Phillips head screwdriver, turn the adjusting screw ①.
2. Turning the screw clockwise will lower the beam and turning the screw counter-clockwise will raise the beam.



## Replacing a Taillight Bulb

8

1. If a taillight bulb burns out, replace the bulb assembly ① by removing the rubber grommet ② from the bezel assembly ③.
2. Remove the wire connector, replace the bulb, and reinstall by fitting the rubber grommet ② over the bulb assembly ① and bezel ③.



# STORAGE

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.

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.

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

## NOTICE

9

**Yamaha Golf-Car Company does not approve the use of high-pressure washers to clean the products they manufacture. Doing so may damage the finish on the body or result in doing other damage not covered by warranty.**

## 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.

## 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 117 kPa, 1.1 kgf/cm<sup>2</sup> (22 psi).
2. Clean exterior of the vehicle and apply a rust inhibitor.
3. Cover the vehicle with a breathable cover and store it in a dry, well-ventilated area.

## BATTERY PREPARATION

1. Remove the battery from your vehicle 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                                                                                                                                                                     | DR2A17                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions:<br>Overall length<br>Overall width<br>Overall height (steering height)<br>Height of floor<br>Wheelbase<br>Tread:<br>Front<br>Rear<br>Minimum ground clearance | 3232 mm (127.2 in.)<br>1201 mm (47.3 in.)<br>1238 mm (48.7 in.)<br>335 mm (13.2 in.)<br>2492 mm (98.1 in.)<br>883 mm (34.8 in.)<br>973 mm (38.3 in.)<br>150 mm (5.9 in.) |
| Weight:<br>Dry weight (without battery)                                                                                                                                   | 441.6 kg (973.6 lb)                                                                                                                                                      |
| Vibration Level:<br><br>Vibration on seat (EN 1032, ISO5008) for Europe<br>Vibration on steering wheel (EN1032, ISO5008) (for Europe)                                     | Will not exceed 0.5 m/s <sup>2</sup><br><br>Will not exceed 2.5 m/s <sup>2</sup>                                                                                         |
| Performance:<br>Factory and maximum speed setting<br>Minimum turning radius<br>Seating capacity                                                                           | 30.5 km/h (19 mph)<br>4.4 m (14.4 ft)<br>Four occupants maximum                                                                                                          |
| Fuel Tank Capacity                                                                                                                                                        | 22.0 L (5.8 U.S. gallons)                                                                                                                                                |

# SPECIFICATIONS

## ENGINE

| Items               | DR2A17                         |
|---------------------|--------------------------------|
| Description:        |                                |
| Engine type         | 4-stroke, Gasoline, OHV        |
| Number of cylinders | Single                         |
| Displacement        | 357 cm <sup>3</sup>            |
| 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                         |
| Engine oil type     | YAMALUBE SAE 10W30 4-cycle oil |
| 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                              | DR2A17                                                                                                                                                                                                              |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Secondary reduction ratio:<br>Forward 9.789 / Reverse 14.358<br>Differential type bevel gear<br>Lubricant/capacity:<br>Yamalube 475 cc (16.06 oz)<br>SAE 80W-90 gear oil |

# SPECIFICATIONS

## BATTERIES

| Items    | DR2A17                                                   |
|----------|----------------------------------------------------------|
| Battery: | BCI group 24,<br>RC: minimum 75 min<br>CCA: minimum 400A |

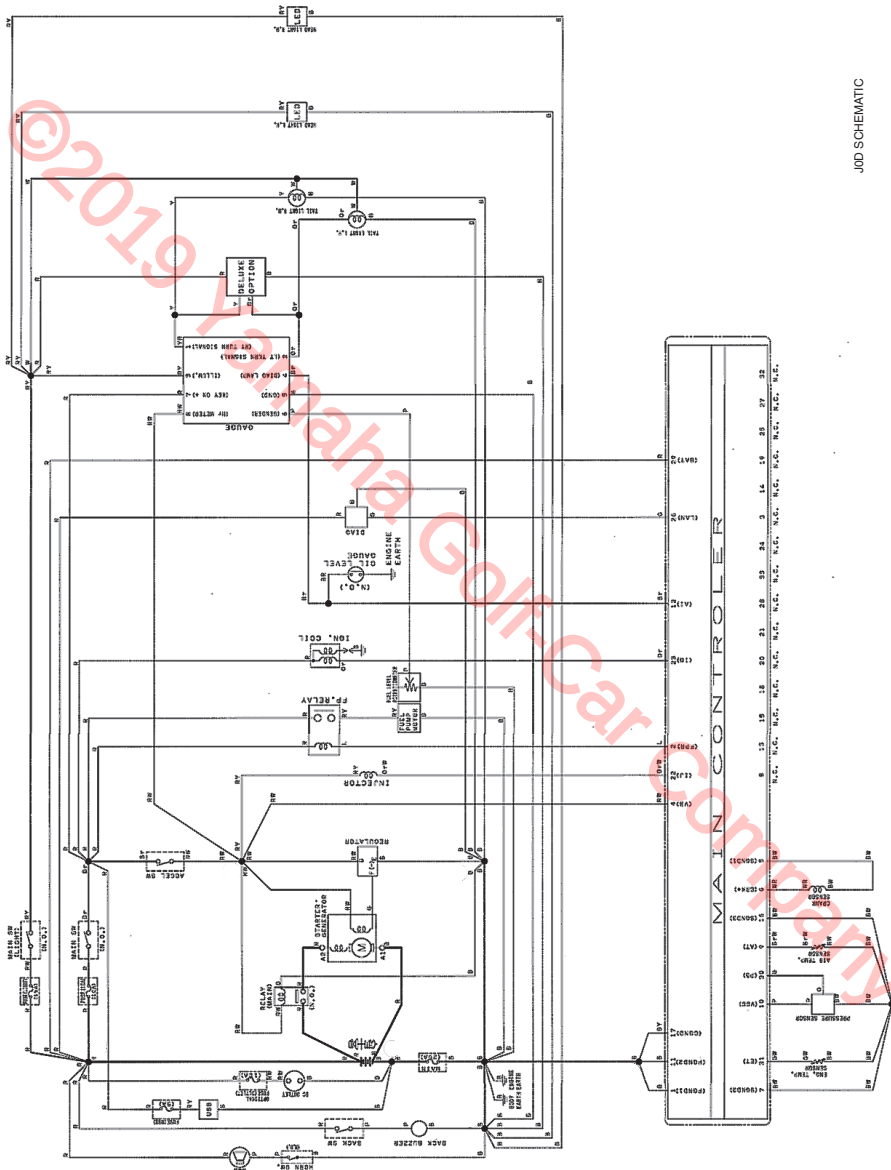
## CHASSIS

| Items                                                                                                                 | DR2A17                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>with self-adjusters<br>Dual internal expanding shoe<br>Leading/trailing shoes (self-adjusting)<br><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:                                                  | 205/65-10 4PLY<br>205/65-10 4PLY<br>7.00-1-8.00<br>117 kPa, 1.1 kgf/cm <sup>2</sup> (22 psi)                                                                                                              |
| Lights:<br>Bulb voltage, wattage x quantity:<br>Headlight<br>Taillight                                                | LED 13.5 V / 14.5 W x 2<br>12 V / 2.1 amp and .48 amp x 2                                                                                                                                                 |

# WIRING DIAGRAM

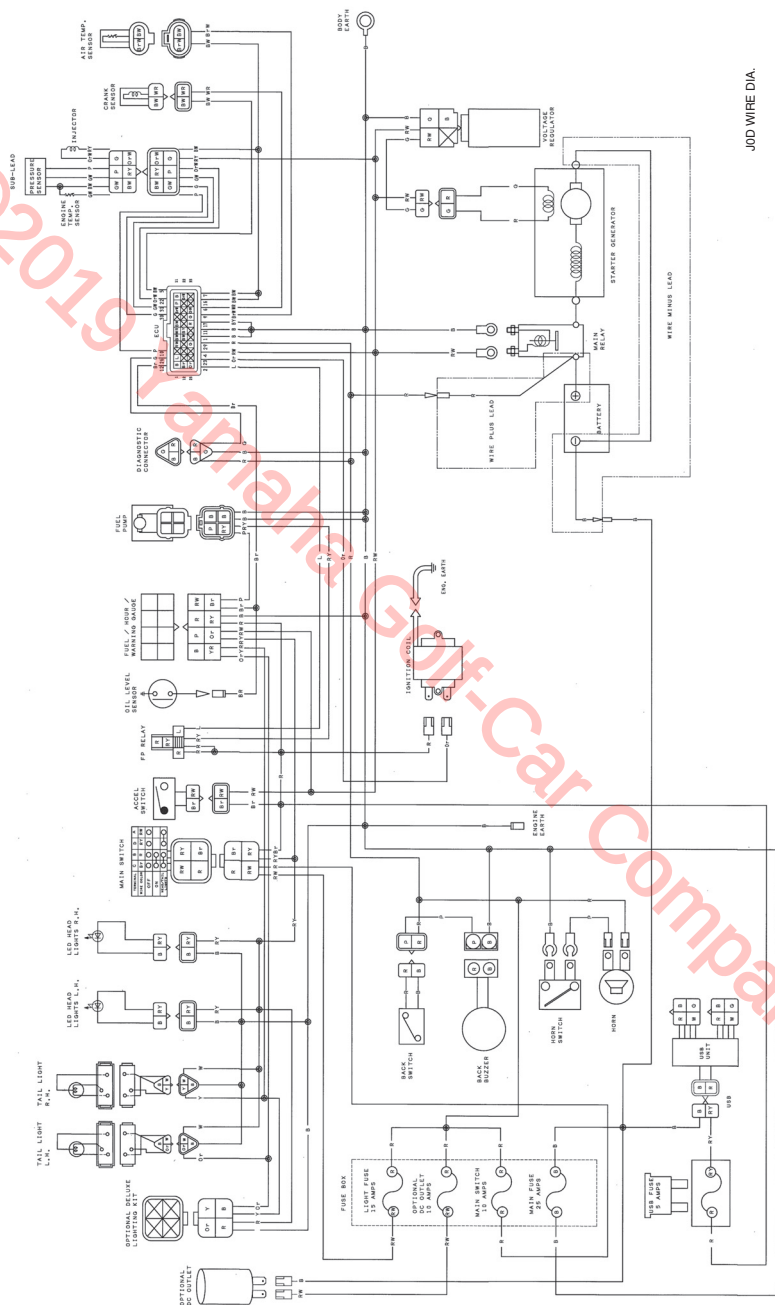
# WIRING

JDD SCHEMATIC



## WIRING

## WIRING DIAGRAM



JOD WIRE DIA.