



## OWNER'S / OPERATOR'S MANUAL



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

# YTF2AX7F

**ELECTRONIC FUEL  
INJECTION  
UTILITY VEHICLE**

## **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 utility vehicle. This manual contains information you will need for proper operation, maintenance, and care of your utility 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 utility vehicle, please consult a Yamaha dealer.

**Yamaha Motor Corporation USA**

**YTF2AX7F EFI OWNER'S/  
OPERATOR'S MANUAL**

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USA**

**1st Edition**

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

**LIT-19626-71-17**



JW7-F8199-32

# 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 utility 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 utility vehicle. This manual should be considered a permanent part of your utility vehicle and should remain with the vehicle when resold.

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# WARRANTY

## 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> HydroLink Watering System | 4 Years or 23,500 amp-hours whichever comes first<br><small>*Detailed condition on the next page</small> |
| Transaxle                              | 2 Years | Electric Motor                                                     | 2 Years                                                                                                  |
| Pedals                                 | 2 Years | Motor Controller / Charger                                         | 2 Years                                                                                                  |
| Brakes (excluding shoes / pads)        | 2 Years | Charger Cord                                                       | 2 Years                                                                                                  |
| Electrical wires, switches, and relays | 2 Years | Charger Receptacle                                                 | 2 Years                                                                                                  |
| Suspension / Steering components       | 2 Years | Throttle Position Sensor                                           | 2 Years                                                                                                  |
| Seats                                  | 2 Years | <b>GAS Car specific</b>                                            |                                                                                                          |
| Sun Top                                | 2 Years | Exhaust / Intake / Generator                                       | 2 Years                                                                                                  |
| Bumpers / Body Parts                   | 2 Years | Gas Engine                                                         | 2 Years                                                                                                  |
| Floor Mats                             | 2 Years | Throttle Cables / Controls                                         | 2 Years                                                                                                  |
| Scorecard Holders                      | 2 Years | Battery                                                            | 1 Years                                                                                                  |
| Bag Carrier                            | 2 Years | Clutch (excluding drive belt)                                      | 2 Years                                                                                                  |
| <b>Common Accessories</b>              |         |                                                                    |                                                                                                          |
| Windshield                             | 3 Years | All Remaining Parts                                                | 1 years                                                                                                  |
| Head Light                             | 2 Years |                                                                    |                                                                                                          |
| Tail Light                             | 2 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:** Any transfer of warranty must take place within the first three years of the original in-service date of the vehicle. The vehicle must be re-registered by an authorized Yamaha Golf-Car Dealer within 30 days of transfer. A fee may be charged for the transfer of the warranty.

Yamaha Golf-Car Company makes no other warranty of any kind, expressed or implied. All implied warranties of merchantability and fitness 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 Cannister
13. Cannister Mounting Brackets

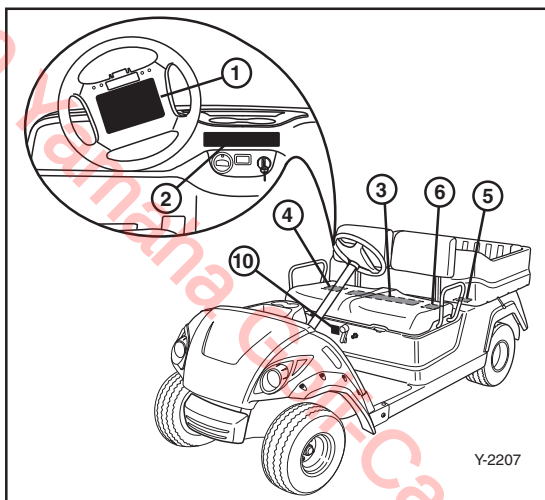
# IMPORTANT LABELS

## ⚠ SAFETY AND INSTRUCTION LABELS

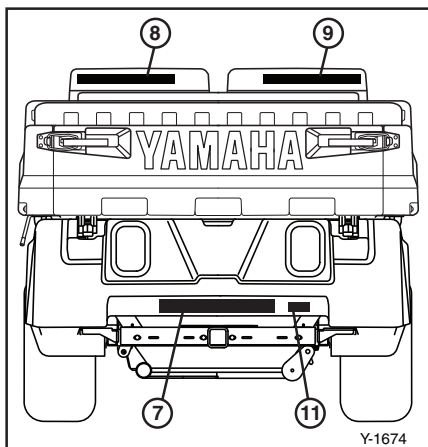
### ⚠ WARNING

Read the following labels carefully before operating your utility 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.

2



Y-2207



Y-1674

①

### ⚠ WARNING

To reduce the risk of accidents and injury or DEATH:

- 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.

### 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, and turn the main switch to "OFF" before 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.

YAMAHA

JWB-K762-00

# IMPORTANT LABELS

②



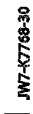
## WARNING

To reduce the risk of accidents and injury or DEATH:

- Vehicle capacity: 1 operator and 1 passenger.
- Remain seated and hold on while in motion.
- Keep entire body inside vehicle.
- Passenger and cargo can affect vehicle handling.
- Drive slowly in turns.

YAMAHA





JW7-K7768-30

◦ Drive straight up and down hills-driving across the side of hill increases the risk of overturn.

◦ Vehicle rated capacity (driver, passenger, cargo, trailer, and load) 1300 lb (590 kg) on level surface.

◦ This vehicle is recommended only for operators 16 or older with a valid motor vehicle license. Adults must supervise use by minors. Check state laws for minimum age requirements.

◦ Locate and read Owner's Manual. Follow all instructions and warnings.

③



## WARNING

GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. Improper use could cause SEVERE INJURY or DEATH.

- Keep heat, sparks, and open flame away from fuel tank and fuel lines.
- Do not add fuel while engine is running or hot.
- Do not tamper with fuel system.
- Services should be performed by dealer or qualified personnel.

YAMAHA



## AVERTISSEMENT

L'ESSENCE EST HAUTEMENT INFLAMMABLE ET EXPLOSIVE. Une utilisation inadéquate peut provoquer de GRAVES BLESSURES ou la MORT.

- Eloigner toute source de chaleur, d'étincelles et de flammes nues du réservoir et des conduites de carburant.
- Ne pas ajouter de carburant pendant que le moteur tourne ou qu'il est chaud.
- Ne pas modifier le système d'alimentation.
- Les réparations doivent être effectuées par le concessionnaire ou par du personnel qualifié.

JMH-K297-01



N432

Y-1669a

④

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.

JMH-K297-00

YAMAHA

Y-1606

# IMPORTANT LABELS

⑥

DATE OF CONSTRUCTION: JAN. 2016 MY2017  
 YAMAHA MOTOR POWERED PRODUCTS CO., LTD  
 200-1 SAKAGAWA, KAKEGAWA, JAPAN  
 MODEL: YTF2A17 MAX. POWER: 8.9 hp (6.7 kW)  
 VEHICLE WEIGHT: 373 kg (823 lb) LOAD CAP.: 590 kg (1300 lb)  
 BATTERY WEIGHT MAX.: 19 kg  
 NOMINAL BATTERY VOLTAGE: 12V  
 This vehicle complies with ANSII/TDIF B56.8-2011-Part III JW7-F4236-A0



2

⑤

## Important Emissions Information Yamaha Golf-Car Company

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

EF: XXXXX XXXXX

DCM: XXX XXXX

THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE

DISPLACEMENT: XXXcc

EMISSION CONTROL SYSTEM: XX

EVAPORATIVE CODE: XXXXXXXX

MAINTENANCE SPECIFICATIONS

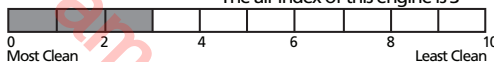
ENGINE OIL: SAE 10W30

IGNITION TIMING: 27 BTDC

SPARK PLUG GAP: .028-031

NO OTHER ADJUSTMENTS NEEDED

The air index of this engine is 3



Most Clean

Least Clean

Note: The lower the Air Index, the less Pollution

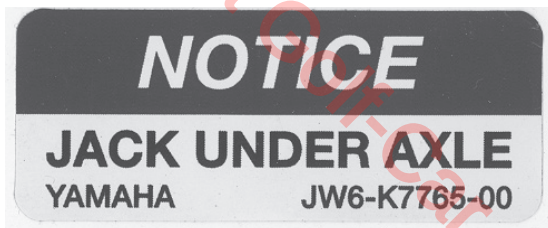
This engine is certified to be emissions compliant for the following use:

[ ] Moderate (125 hours) [ ] Intermediate (250 hours) [X] Extended (1000 hours)

Check owner's manual for further details.

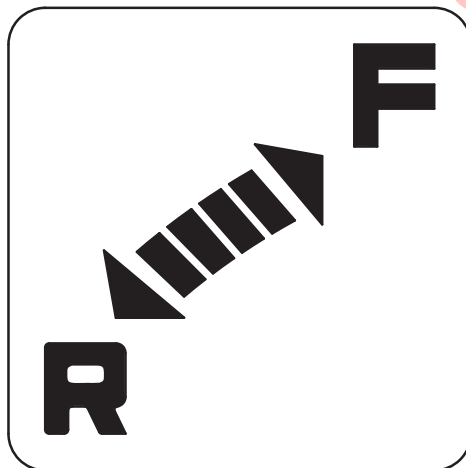
Y-1599x

⑪



Y-1673a

⑩



# IMPORTANT LABELS

⑦

## ⚠ WARNING

IMPROPERLY LOADING A TRAILER OR PULLING AN OBJECT CAN AFFECT HANDLING, STABILITY, AND RISK OF OVERTURN OR OTHER ACCIDENTS.

- Vehicle rated capacity: 1300lb (590kg) maximum including weight of operator, passenger, accessories, cargo, and (if applicable) trailer tongue weight. G.V.W. = 1700lbs (771kg)
- Secure load to prevent it from shifting.
- Never load more than 150lbs (68kg) tongue weight on the towing bracket.
- Do not tow more than 1000lbs (454kg) rolling weight (trailer plus cargo).
- Read Owner's Manual before loading, towing, or pulling objects.

JW7-F1696-00

⑧

## ⚠ WARNING

- 
- Keep hands, body, other persons, away from pinch points when lowering bed.
  - Do not operate the vehicle with bed up.

- IMPROPER USE OF CARGO BED CAN RESULT IN SEVERE INJURY OR DEATH FROM LOSS OF CONTROL, OVERTURN OR OTHER ACCIDENTS.**
- Do not carry passengers in cargo bed.
  - Maximum load in cargo bed: 800lb (363kg).
  - Load may affect handling and stability:
    - Secure cargo so that it will not shift -a loose load could change handling unexpectedly or be thrown forward striking occupants.
    - Keep weight in the cargo bed centered side to side, and as low and as far forward as possible. Top-heavy loads increase the risk of overturn.

- When loaded with cargo or towing a trailer:
  - Reduce speed and allow more room to stop and avoid hills and rough terrain.
  - Turn gradually and go slowly.
  - Avoid hills and rough terrain.
- Read Owner's Manual before loading or towing.

JW7-KZ166-00

YAMAHA

⑨

## ⚠ WARNING

STATIC ELECTRICITY SPARKS CAN IGNITE FUEL VAPOR CAUSING FIRE OR EXPLOSION.

- Do not fill portable fuel container (gas can) in cargo bed.
- Set fuel container on the ground and touch fuel nozzle to the unopened container before removing cap.
- Keep the fuel nozzle in contact with the container while fueling.
- Tighten cap before putting fuel container in cargo bed.



- Keep hands, body, other persons, away from pinch points when lowering bed.
- Do not operate the vehicle with bed up.

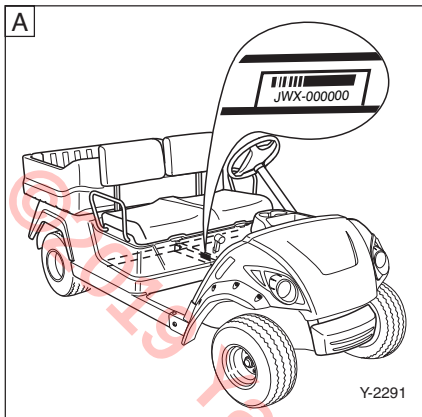
JW6-KZ167-01

YAMAHA

Y-1670a

# IMPORTANT LABELS

2

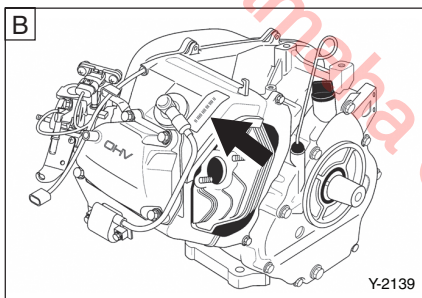


## UTILITY VEHICLE SERIAL NUMBER

The utility vehicle serial number (A) 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 dealer.

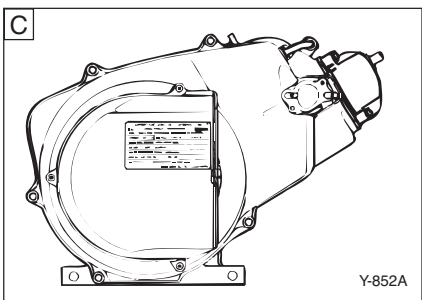


The engine serial number (B) is affixed in the location shown.

## Engine Information

| IMPORTANT ENGINE INFORMATION                                                                                                                                                               |                | YAMAHA    |           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|-----------|
| ENGINE FAMILY : *****                                                                                                                                                                      |                |           |           |
| REFER TO OWNERS MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.                                                                                                                     |                |           |           |
| DISPLACEMENT: *** cm <sup>3</sup>                                                                                                                                                          | VALVE LASH(mm) | 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 HOV/ROAD ENGINES.</small> |                |           |           |
| YAMAHA MOTOR CO., LTD.                                                                                                                                                                     |                |           |           |

Y-851a





## SAFETY INFORMATION

3

Yamaha utility 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 UTILITY VEHICLE

- Read this Owner's/Operator's manual and all safety and instruction labels on the utility vehicle before operating.
- Perform the pre-operation checks found in Section 5 of this manual.
- 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.
- Do not allow more than two occupants per seat. This utility vehicle is restricted to two occupants.
- Never give a ride to a passenger who is unable to put both feet firmly on the floorboard while seated with his or her back against the back-rest.
- Never carry passengers in the cargo bed.
- Do not operate the utility vehicle while under the influence of alcohol or drugs; their effect on vision and judgment make operating a utility vehicle dangerous.
- This vehicle was not manufactured for use on public streets and does not comply with federal motor vehicle safety standards applicable to passenger cars.

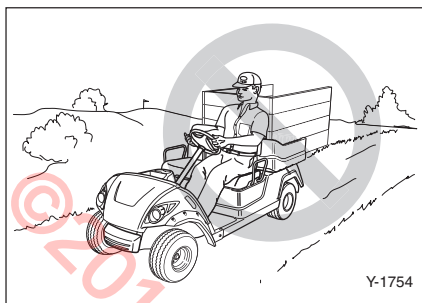


Y-68



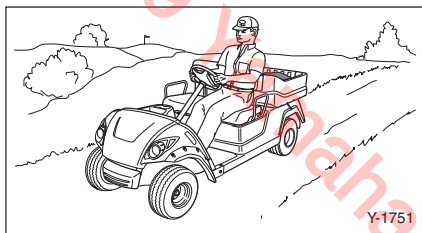
## SAFETY INFORMATION

3

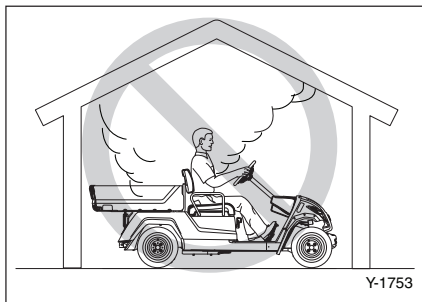
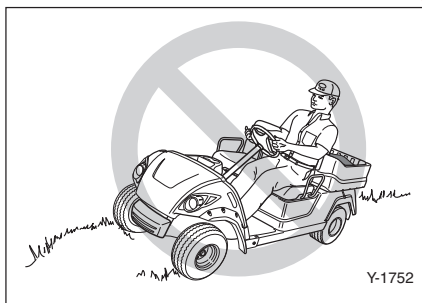


- Do not operate the utility vehicle on public streets, roads or highways unless allowed by law or the local regulating authority.
- Do not make any modification or addition which affects capacity or safe operation, or make any changes not in accordance with the Owner's/Operator's manual.

### WHILE OPERATING THE UTILITY VEHICLE



- Keep your entire body inside the utility vehicle, remain seated and hold on when the vehicle is in motion.
- Do not start the utility vehicle until all occupants are seated.
- Always keep both hands on the steering wheel when driving. Always go at a speed that is proper for the terrain, visibility, and operating conditions, and your experience. Go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when driving the vehicle.
- Never operate on excessively rough, slippery, or loose terrain.
- Use extra care in congested areas or when backing up. Always back up slowly, and watch carefully. Avoid starting or stopping abruptly.
- Avoid turning the steering wheel too sharply at higher speeds to avoid tipping or rolling the vehicle.
- Never attempt jumps or other stunts.





## SAFETY INFORMATION

3

- Always drive slowly straight up or straight down slopes – never at an angle to avoid tipping or rolling the vehicle. Never operate the vehicle on slopes that are too steep for it or for your abilities.
- Never operate on slopes that are slippery or ones where you will not be able to see far enough ahead of you. Never go over the top of a slope at speed if you cannot see what is on the other side.
- Always check terrain carefully before going down slopes. Go as slowly as possible. Never go down a slope at high speed.
- Always check for obstacles before operating in a new area.
- Never operate the vehicle in fast flowing water or water deeper than 15 cm (6 in). Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the linings.
- Do not run the engine indoors. Exhaust gas is poisonous and could result in carbon monoxide poisoning.

## ACCESSORIES AND LOADING

### Accessories

Accessories can affect the handling and control of your vehicle. Keep the following in mind when considering an accessory or operating a utility vehicle which has accessories.

- Choose only accessories designed for your utility vehicle. Your Yamaha dealer has a variety of genuine Yamaha accessories. Other accessories may also be available on the market. However, it is not possible for Yamaha to test all non-Yamaha accessories, nor have any control over the quality or suitability of them. Choose a genuine Yamaha accessory, or one that is equivalent in design and quality.
- Accessories should be rigidly and securely mounted. An accessory which can shift position or come off while you are operating could affect your ability to control the utility vehicle.
- Do not mount an accessory where it could interfere with your ability to control the utility vehicle. Examples include (but are not limited to) an object that limits your ability to turn the steering wheel or one that limits your view.
- Use extra caution when driving a utility vehicle with accessories. The utility vehicle may handle differently than it does without accessories.



## SAFETY INFORMATION

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### Loading

Cargo or a trailer can change the stability and handling of a utility vehicle. You must use common sense and good judgment when carrying cargo or towing a trailer. Keep the following points in mind:

- Never exceed the weight limits shown on page 9-1. An overloaded utility vehicle can be unstable.
- Do not exceed the maximum tongue weight. You can measure tongue weight with a bathroom scale. Put the tongue of the loaded trailer on the scale with the tongue at hitch height. Adjust the load in the trailer, if necessary, to reduce the weight on hitch. If you are carrying cargo and towing a trailer, include the tongue weight in the maximum vehicle load limit.
- Cargo should be as far forward in the bed as possible, and distributed evenly from side to side. Be sure cargo is secured so that it cannot move around during operation.
- Cargo should always be secured in the trailer. Make sure cargo in the trailer cannot move around. A shifting load can cause an accident.
- Make sure the load does not interfere with controls or your ability to see where you are going.
- Drive more slowly than you would without a load. The more weight you carry, the slower you should go. Although conditions vary, it is good practice not to exceed low range whenever you are carrying heavier loads or when towing a trailer.
- Allow more braking distance. A heavier vehicle takes longer to stop. Do not brake abruptly when carrying loads in the cargo bed or when towing a trailer.
- Avoid making sharp turns unless at very slow speeds to avoid tipping or rolling the vehicle.
- Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and handling of the utility vehicle.

### WARNING

- **Overloading this utility vehicle or carrying or towing cargo improperly could result in a hazard.**
- **This could cause changes in utility vehicle handling which could lead to an accident.**
- **Never exceed the stated load capacity for this utility vehicle.**
- **Cargo should be properly distributed and securely attached.**
- **Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.**



## SAFETY INFORMATION

### MAINTENANCE REQUIRED FOR UTILITY VEHICLE SAFETY

Practice the following to help ensure the safety of utility vehicle operators:

- **Preventative Maintenance.**

Perform all scheduled maintenance in accordance with manufacturer's recommendations to provide a safe, properly operating utility vehicle.

- **Personnel.** Allow only qualified, trained, and authorized personnel to inspect, adjust and maintain utility vehicles.

- **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 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 utility vehicle before beginning any maintenance to avoid any unexpected vehicle movement.
- Properly block chassis before working underneath utility vehicle to avoid any unexpected vehicle movement.
- Before disconnecting any part of the fuel system, drain the applicable part of the system to prevent fuel leaks.
- When working on the fuel system or the battery, do not smoke, or allow any sparks or open flames near the vehicle, to avoid any fires or explosions.
- Before performing any maintenance, disable the vehicle's electrical system in accordance with the manufacturer's instructions.
- Use only properly insulated tools when working on electrically powered utility vehicles or around batteries to avoid electrical shock or damage to the electrical system.
- Maintain all safety devices, including brakes, steering mechanisms, warning devices and governors, in a safe operating condition. Do not modify these safety devices as supplied by the manufacturer.



## SAFETY INFORMATION

- 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.
- 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 dealer.

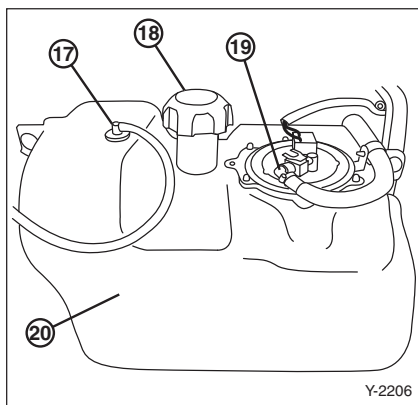
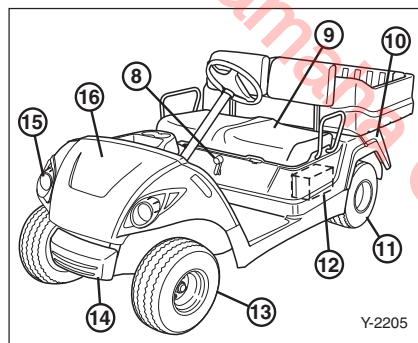
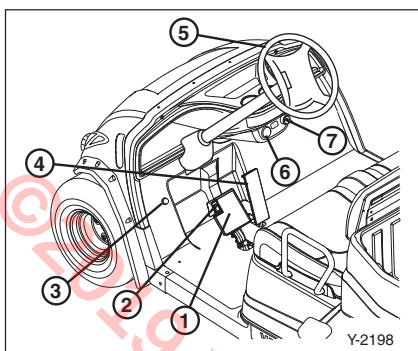
### FUEL HANDLING/ STORAGE AND BATTERY CHARGING

Take the following precautions to ensure maintenance worker safety:

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

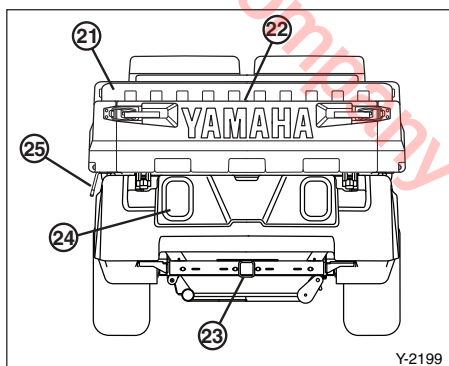
# CONTROLS

4

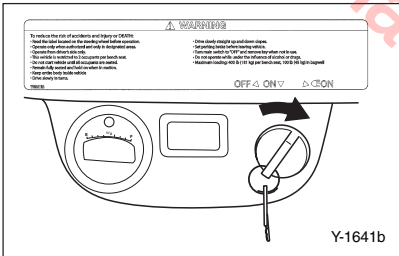
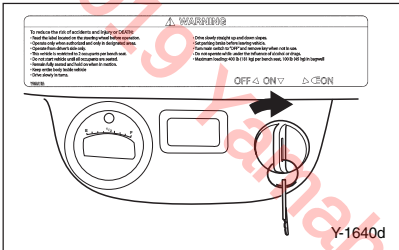
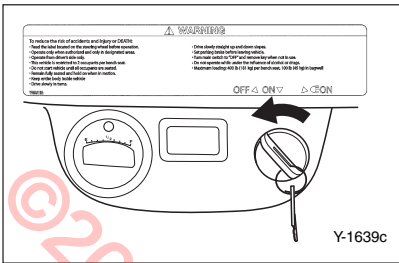


## FEATURES

- ① Brake pedal
- ② Parking brake pedal
- ③ Horn switch
- ④ Accelerator pedal
- ⑤ Steering wheel
- ⑥ Engine/oil warning light/fuel gauge/hour meter
- ⑦ Main/headlight switch
- ⑧ Drive select lever
- ⑨ Seat
- ⑩ Rear body
- ⑪ Rear tire
- ⑫ Battery
- ⑬ Front tire
- ⑭ Front bumper
- ⑮ Headlights
- ⑯ Front body
- ⑰ Fuel tank vent
- ⑱ Fuel cap
- ⑲ E.F.I. fuel pump
- ⑳ Fuel tank
- ㉑ Cargo bed
- ㉒ Tailgate
- ㉓ Trailer hitch receiver bracket
- ㉔ Taillights
- ㉕ Cargo bed release lever



## CONTROLS



## MAIN SWITCH

The main switch controls the following items:

“OFF”

The electrical power circuit is switched off. The key can be removed only in this position.

“ON”

The electrical power circuit is switched on. The utility 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.

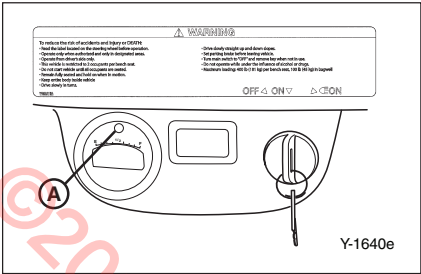
## ENGINE/OIL WARNING LIGHT

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.**

# CONTROLS



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.

(A) Engine/oil warning light

## DRIVE SELECT LEVER

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

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

## TIP

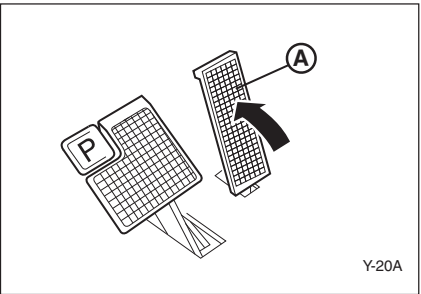
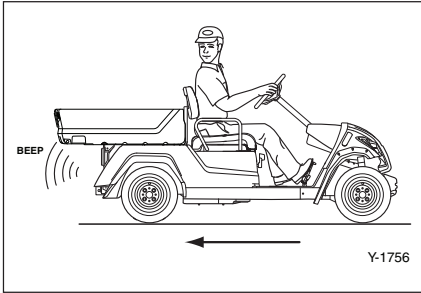
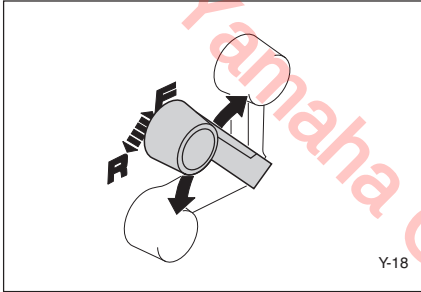
The reverse alarm will sound when the drive select lever is turned to "R."

## ACCELERATOR PEDAL

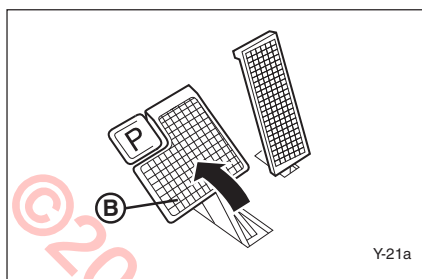
The accelerator pedal controls the vehicle's speed.

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

(A) Accelerator pedal



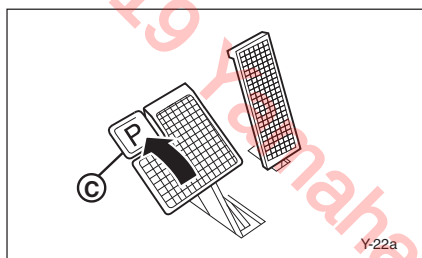
# CONTROLS



## BRAKE PEDAL

Press down on the brake pedal to stop the utility vehicle.

Ⓑ Brake pedal



## PARKING BRAKE PEDAL

Press down on the parking brake pedal whenever parking the utility vehicle.

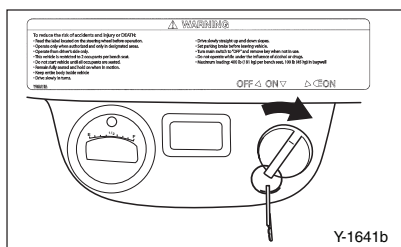
Ⓒ Parking brake pedal

## TIP

Release the parking brake by depressing the accelerator pedal.

## ⚠ WARNING

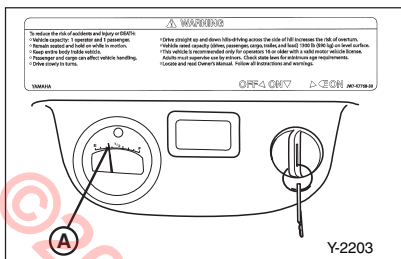
The parking brake will automatically release when the accelerator pedal is depressed. If the main switch is in the “ON” position, depressing the accelerator may suddenly cause the utility vehicle to move. Death or serious personal injury can result from failing to comply with the safety instructions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

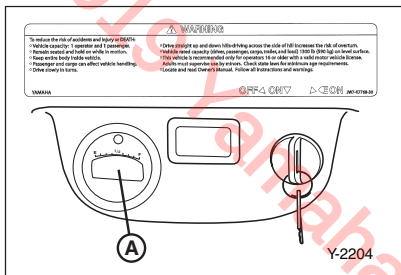
## CONTROLS



## 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.

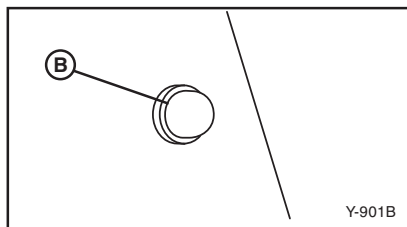
- ④ Fuel gauge



## HOUR METER

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

- Ⓐ Hour meter



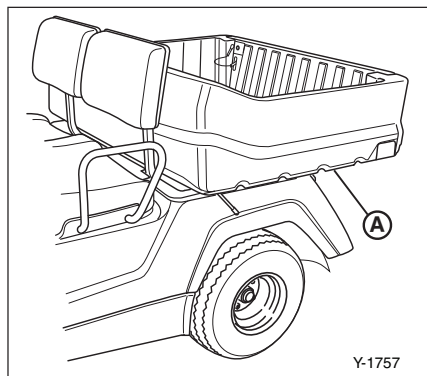
## HORN SWITCH

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

- ② Horn switch

### TIP

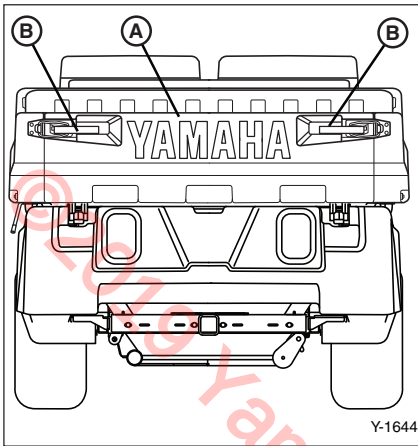
It is advisable to sound the horn when approaching blind corners.



## CARGO BED

- Ⓐ Cargo bed

# CONTROLS



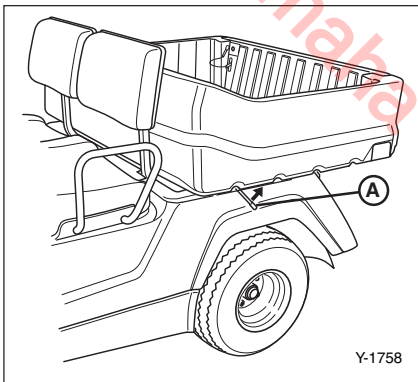
## OPENING AND CLOSING THE TAILGATE

To open, unhook the latches, and then lower the tailgate.

To close, place the tailgate in its original position, and then hook the latches.

- (A) Tailgate
- (B) Latch

4



## RAISING AND LOWERING THE CARGO BED

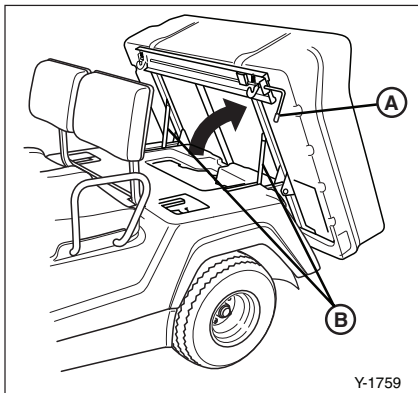
To raise, pull the cargo bed release lever toward the rear to unlatch the latches. The gas springs assist in raising and holding the cargo bed open.

### TIP

The gas springs will only open/hold the cargo bed when it is empty.

To lower, push down on the box to lower it in the original position. Make sure the latches for the cargo bed are securely latched.

- (A) Cargo bed release lever
- (B) Gas springs



Maximum load limit:  
363 kg (800 lb)

# CONTROLS

## WARNING

### Uncontrolled Movement Hazard

- Never exceed the stated load capacity for this vehicle.
- Distribute the load evenly.
- Secure cargo in cargo bed.
- Never tow cargo that is not secured.
- Reduce speed and allow greater distances for braking.

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

## WARNING

### Fire or Explosion Hazard

- Do not fill fuel containers in the plastic cargo bed.
- Set fuel container on the ground.
- Keep fuel nozzle in contact with can inlet while filling.
- Tighten cap before setting fuel container in cargo bed.

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

## WARNING

### Fall and Thrown Object Hazard

- Do not carry passengers in the cargo bed.

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

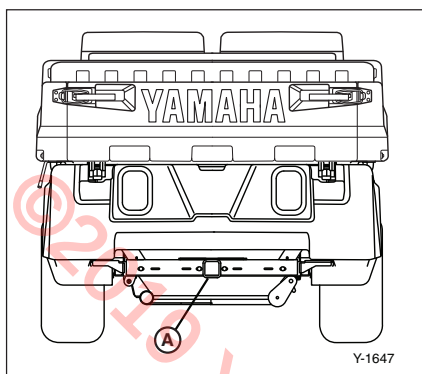
## WARNING

### Crush Hazard

- Keep hands and fingers away from cargo bed and seat tracks.
- Have others back away from vehicle before closing cargo bed.
- Do not allow passengers to sit on the seat when closing cargo bed.

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

## CONTROLS



### TRAILER HITCH RECEIVER BRACKET

This vehicle is equipped with a 5 cm (2 in.) receiver bracket for a standard trailer hitch. Trailer towing equipment can be obtained at a Yamaha dealer.

- Ⓐ Trailer hitch receiver bracket

# PRE-OPERATION CHECKS

Pre-operation checks should be made each time you use your utility 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.

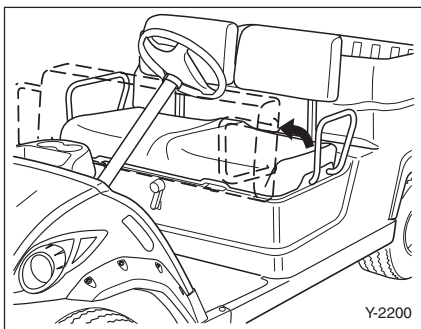
Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

## PRE-OPERATION CHECKLIST

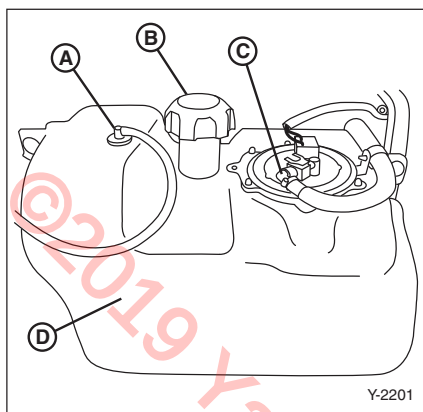
Refer to the Periodic Maintenance charts on pages 7-1 and 7-2.

## SEAT

Open the seat for checking and servicing.



# PRE-OPERATION CHECKS



## FUEL SYSTEM

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

- (A) Fuel tank vent
- (B) Fuel cap
- (C) E.F.I. fuel pump
- (D) Fuel tank

### ⚠ WARNING

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

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

### ⚠ WARNING

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

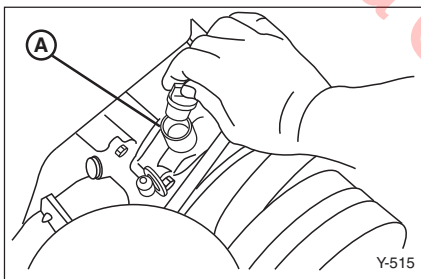
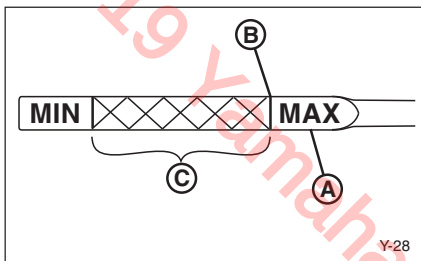
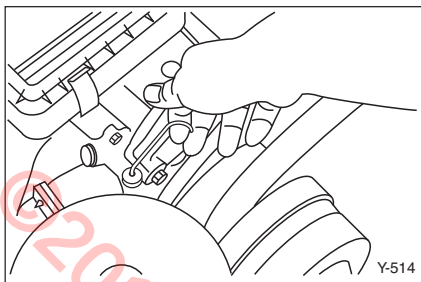
**If any gasoline gets on your skin, immediately wash with soap and water. Change clothing if gasoline spills on it.**

Recommended fuel:  
Unleaded gasoline

Fuel tank capacity:  
22.0 L (5.8 US gal)

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

# PRE-OPERATION CHECKS



Recommended oil:  
YAMALUBE 4-cycle oil or 10W30

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

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

## NOTICE

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

## ENGINE OIL

With the utility 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.

- (A) Oil filler hole

## NOTICE

Engine damage can result.

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

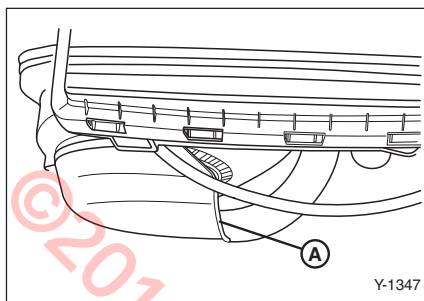
## TIP

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

## TIP

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

# PRE-OPERATION CHECKS



## Engine Cooling Inlet Duct

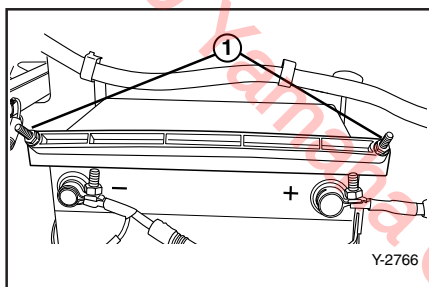
Check the engine cooling inlet duct for debris. Remove any debris present.

- ① Engine cooling inlet duct

## BATTERY

Check that the battery is held securely in place to prevent the battery from being damaged from vibration or jarring. 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

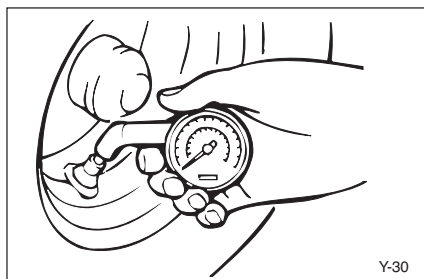
### Tire Air Pressure

Check the tire air pressure before operating the utility vehicle.

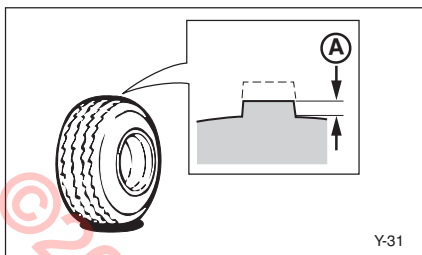
Tire pressure:

Front: 140-160 kPa,  
1.4-1.6 kgf/cm<sup>2</sup> (20-23 psi)

Rear: 197-217 kPa,  
2.0-2.2 kgf/cm<sup>2</sup> (29-31 psi)



# PRE-OPERATION CHECKS



## 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.

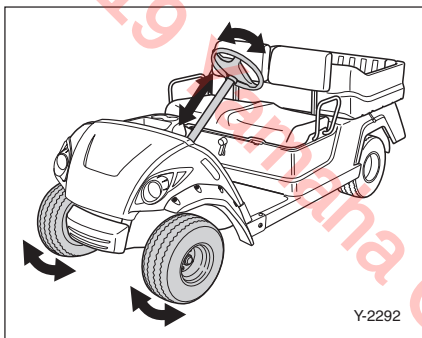
(A) Wear limit

## STEERING SYSTEM

Check the steering system for excessive free play by:

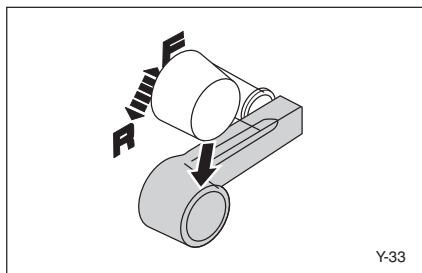
- moving the steering wheel up and down, and back and forth.
- turning the steering wheel slightly to the right and left.

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



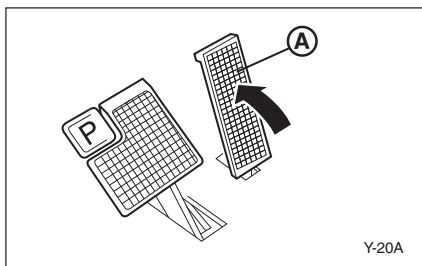
## REVERSE ALARM

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.



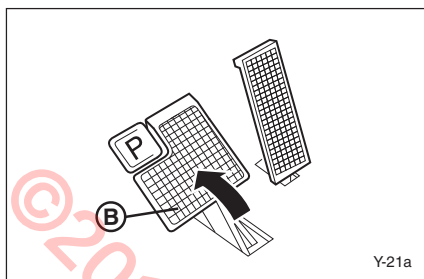
## Accelerator Pedal

### ⚠ WARNING

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

(A) Accelerator pedal

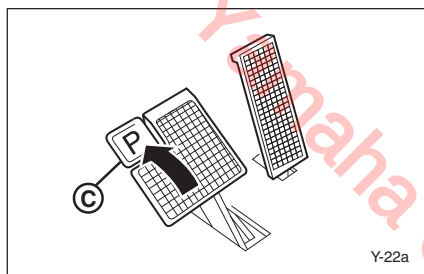
# PRE-OPERATION CHECKS



## 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

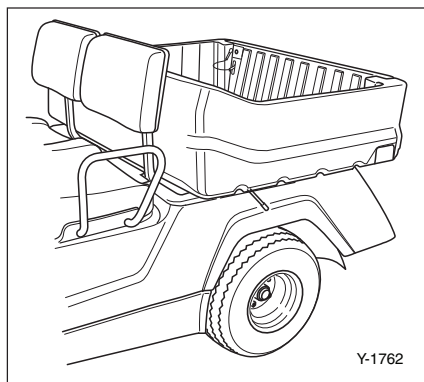
Release the parking brake by depressing the accelerator pedal.

## BODY AND CHASSIS

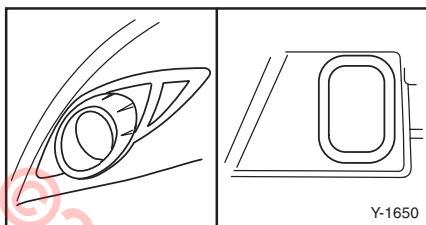
Before each use, visually inspect the utility vehicle body and chassis for damage and/or missing parts.

## CARGO BED

Make sure cargo bed is lowered completely and is latched in the down position. Make sure both tailgate latches are latched.



# PRE-OPERATION CHECKS



## Headlights/Taillights

Ensure the headlights and taillights are operational.

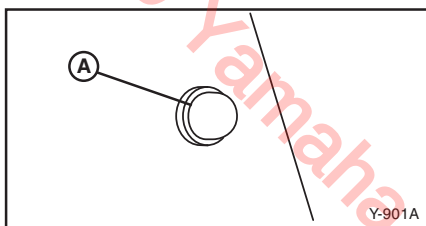
### **⚠ WARNING**

**Never operate the utility vehicle at night or during inclement weather without properly working headlights/taillights.**

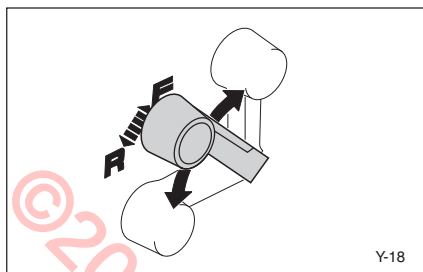
## Horn Switch

Make sure the horn operates correctly.

Ⓐ Horn switch



# OPERATION

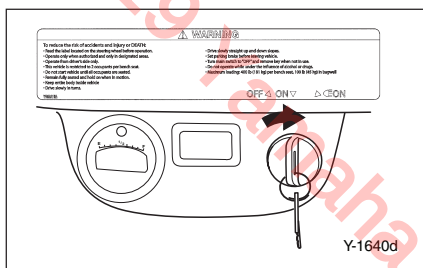


## STARTING

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

### NOTICE

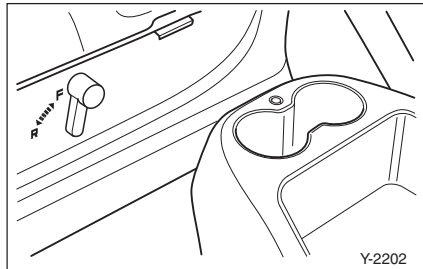
Do not shift from "F" forward to "R" reverse while the utility vehicle is moving. Transmission damage can result.



2. Turn the main switch to "ON."

### WARNING

Do not depress the accelerator pedal when turning on the main switch or the vehicle may start moving unexpectedly.

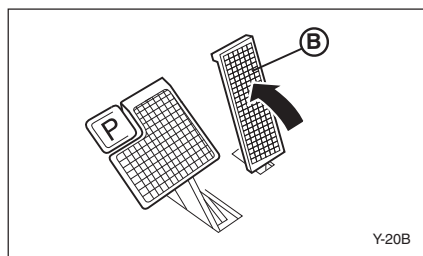


3. Check that your path is clear in the direction you plan to go, and slowly depress the accelerator pedal. The vehicle will start to move.

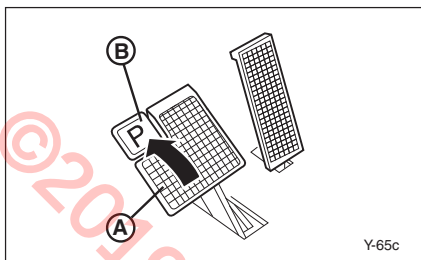
Ⓑ Accelerator pedal

### TIP

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



# OPERATION



## STOPPING

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

- (A) Brake pedal

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

- (B) Parking brake pedal

### NOTICE

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

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## MAXIMUM LOADING LIMIT

- Vehicle Rated Capacity:  
590 kg (1300 lb)
- Maximum Cargo Bed Capacity:  
363 kg (800 lb)
- Maximum Towing Capacity:  
454 kg (1000 lb)
- Maximum Tongue Weight:  
68 kg (150 lb)
- Gross Vehicle Weight:  
771 kg (1700 lb)

## LOADING

Cargo or a trailer can change the stability and handling of a vehicle.

You must use common sense and good judgment when carrying cargo or towing a trailer. Keep the following points in mind:

- Never exceed the weight limits shown. An overloaded vehicle can be unstable.

# OPERATION

- Do not exceed the maximum tongue weight. You can measure tongue weight with a bathroom scale. Put the tongue of the loaded trailer on the scale with the tongue at hitch height. Adjust the load in the trailer, if necessary, to reduce the weight on hitch. If you are carrying cargo and towing a trailer, include the tongue weight in the maximum vehicle load limit.

- Load cargo in the cargo bed as close to the center of the vehicle as possible to avoid tipping the vehicle.

- Cargo should be as far forward in the bed as possible, and distributed evenly from side to side. Be sure cargo is secured so that it cannot move around during operation.

- Make sure the load does not interfere with controls or your ability to see where you are going.

- Drive more slowly than you would without a load. The more weight you carry, the slower you should go.

- Allow more braking distance. A heavier vehicle takes longer to stop.

- Avoid making sharp turns unless at very slow speeds to avoid tipping or rolling the vehicle.

- Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and handling of the vehicle.

## **⚠ WARNING**

### **Uncontrolled Movement Hazard**

- Never exceed the stated load capacity for this vehicle.
- Distribute the load evenly.
- Secure cargo in cargo bed.
- Never tow cargo that is not secured.
- Reduce speed and allow greater distances for braking.

## **⚠ WARNING**

### **Fall and Thrown Object Hazard**

- Do not carry passengers in the cargo bed.

## **⚠ WARNING**

### **Fire or Explosion Hazard**

- Do not fill fuel containers in the plastic cargo bed.
- Set fuel container on the ground.
- Keep fuel nozzle in contact with can inlet while filling.
- Tighten cap before setting fuel container in cargo bed.

# MAINTENANCE

## PERIODIC MAINTENANCE CHARTS

Regular maintenance is required for the best performance and safe operation of your utility 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<br>Pre-<br>Operation | 20 hours<br>160 kms<br>100 miles<br>(Every<br>month) | 125 hrs<br>1000 kms<br>600 mls<br>(Every 6<br>months) | 250 hrs<br>2000 kms<br>1200 mls<br>(Every<br>year) | 500 hrs<br>4000 kms<br>2500 mls<br>(Every<br>2 years) | 1000 hrs<br>8000 kms<br>5000 mls<br>(Every<br>4 years) | Page        |
|----------------|-----------------------------------------------------------------------|----------------------------|------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-------------|
| PRE-OP         | Check engine oil                                                      | CS                         | CS                                                   | CS                                                    |                                                    |                                                       |                                                        | 5-3         |
|                | Check air cooling duct                                                | CS                         | CS                                                   | CS                                                    | CS                                                 | CS                                                    | CS                                                     | 5-4         |
|                | Check fuel lines for leakage                                          | CS                         | CS                                                   | CS                                                    | CS                                                 | CS                                                    | CS                                                     | 5-2         |
|                | Check fuel level                                                      | CS                         | CS                                                   | CS                                                    | CS                                                 | CS                                                    | CS                                                     | 5-2         |
|                | Check for looseness and corrosion of battery terminals and hold downs | CS                         | CS                                                   | CS                                                    | CS                                                 | CS                                                    | CS                                                     | 5-4         |
|                | Check brake pedal free play and adjust if necessary                   | CS                         | CA                                                   | CA                                                    | CA                                                 | CA                                                    | CA                                                     | 7-12        |
|                | Check steering operation                                              | CS                         | CS                                                   | CS                                                    | CS                                                 | CS                                                    |                                                        | 5-5         |
|                | Check tire pressure, tread depth, tire surface for damage             | CS                         | CA                                                   | CA                                                    | CA                                                 | CA                                                    | CA                                                     | 5-4         |
|                | Check body and chassis for damage                                     | CS                         | CS                                                   | CS                                                    | CS                                                 | CS                                                    | CS                                                     | 5-6         |
|                | 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                                                     | 5-5         |
| EVERY MONTH    | Check fuel filter for clogging                                        |                            | CS                                                   | CS                                                    | CS                                                 | CS                                                    | CS                                                     | *           |
|                | Check wear of drive belt                                              |                            | CS                                                   | CS                                                    | CS                                                 | CS                                                    | CS                                                     | 7-7/<br>7-8 |
|                | Check operation of Forward / Reverse shifting                         |                            | CS                                                   | CS                                                    | CS                                                 | CS                                                    | CS                                                     | 6-1         |
|                | Clean / Lube pedal control area                                       |                            | CL                                                   |                                                       |                                                    |                                                       |                                                        | *           |
| EVERY 6 MONTHS | Wash pre-filter, check air cleaner element                            |                            |                                                      | S                                                     | S                                                  | S                                                     | S                                                      | 7-6/<br>7-7 |
|                | Check spark plug and plug cap condition** / Check compression         |                            |                                                      | CS                                                    | CS                                                 | CS                                                    | CS                                                     | 7-4         |
|                | 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 | 20 hours<br>160 kms<br>100 miles<br>(Every<br>month) | 125 hrs<br>1000 kms<br>600 mls<br>(Every 6<br>months) | 250 hrs<br>2000 kms<br>1200 mls<br>(Every<br>year) | 500 hrs<br>4000 kms<br>2500 mls<br>(Every<br>2 years) | 1000 hrs<br>8000 kms<br>5000 mls<br>(Every<br>4 years) | Page        |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-------------|
| EVERY<br>YEAR    | Replace engine oil                                                                                                                                                                                                                          |                            |                                                      |                                                       | R                                                  | R                                                     | R                                                      | 7-5         |
|                  | Adjust throttle cables,**<br>choke cable, check carburetor<br>throttle shaft for wear**                                                                                                                                                     |                            |                                                      |                                                       | CA                                                 | CA                                                    | CA                                                     | *           |
|                  | Check starter V-belt for<br>damage and tension                                                                                                                                                                                              |                            |                                                      |                                                       | CS                                                 | CS                                                    | CS                                                     | *           |
|                  | Check drive belt for slippage,<br>wear or scratches                                                                                                                                                                                         |                            |                                                      |                                                       | CS                                                 | CS                                                    | CS                                                     | 7-7/<br>7-8 |
|                  | Check operation of speed limiter                                                                                                                                                                                                            |                            |                                                      |                                                       | CS                                                 | CS                                                    | CS                                                     | *           |
|                  | Apply battery terminal protectant                                                                                                                                                                                                           |                            |                                                      |                                                       | S                                                  | S                                                     | S                                                      | *           |
|                  | Check wiring connections<br>and insulation                                                                                                                                                                                                  |                            |                                                      |                                                       | CS                                                 | CS                                                    | CS                                                     | *           |
|                  | Perform primary and<br>secondary clutch maintenance:<br>(primary)<br>- Inspect sheaves for wear<br>and 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 rear axle bearing play<br>for roughness or freeplay                                                                                                                                                                                   |                            |                                                      |                                                       | CS                                                 | CS                                                    | CS                                                     | *           |
|                  | Check steering knuckle<br>bushing free play / Adjust<br>wheel alignment                                                                                                                                                                     |                            |                                                      |                                                       | CA                                                 | CA                                                    | CA                                                     | *           |
|                  | Check wheel nut tightness,<br>front wheel bearing play                                                                                                                                                                                      |                            |                                                      |                                                       | CS                                                 | CS                                                    | CS                                                     | *           |
|                  | Check transaxle oil level and<br>inspect for leakage                                                                                                                                                                                        |                            |                                                      |                                                       | CS                                                 | CS                                                    | CS                                                     | 7-10        |
|                  | Check operation and adjust<br>pedal stop if necessary                                                                                                                                                                                       |                            |                                                      |                                                       | CA                                                 | CA                                                    | CA                                                     | *           |
|                  | Adjust parking brake release                                                                                                                                                                                                                |                            |                                                      |                                                       | CA                                                 | CA                                                    | CA                                                     | 7-13        |
| EVERY<br>4 YEARS | Check starter brushes for wear<br>and commutator for dirt                                                                                                                                                                                   |                            |                                                      |                                                       |                                                    |                                                       | CS S                                                   | *           |
|                  | Replace fuel hoses                                                                                                                                                                                                                          |                            |                                                      |                                                       |                                                    |                                                       | R                                                      | *           |
|                  | Check tightness of cylinder<br>head / Adjust valves                                                                                                                                                                                         |                            |                                                      |                                                       |                                                    |                                                       | CA                                                     | *           |
|                  | Replace transaxle oil                                                                                                                                                                                                                       |                            |                                                      |                                                       |                                                    |                                                       | CS R                                                   | *           |
|                  | 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               |

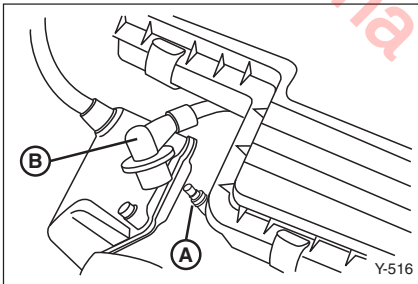
# MAINTENANCE

## 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

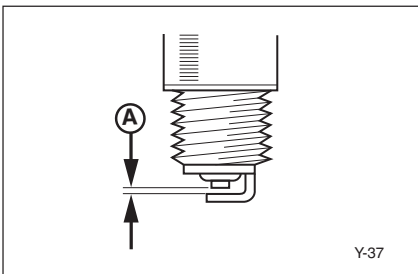
1. Check for discoloration and remove carbon deposits with a spark plug cleaner or wire brush. The normal electrode color will be tan.
2. Check the spark plug type, and check the spark plug gap with a feeler gauge.

Standard spark plug:  
BPR2ES/BPR4ES

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

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

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



# MAINTENANCE

## Engine Oil Replacement

1. Warm up the engine for several minutes, place the utility 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.**

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

### **TIP**

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

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

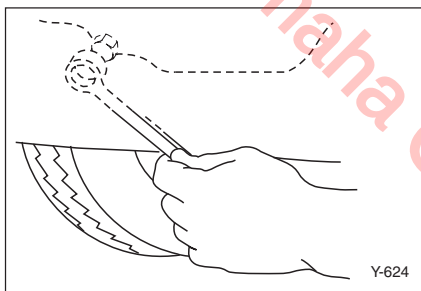
Drain plug torque:  
31 Nm, 3.1 m·kg  
(23 ft·lb)

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

### **TIP**

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

7

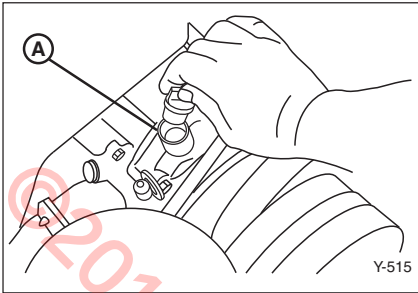


Recommended oil:  
YAMALUBE SAE 10W30  
4-cycle oil

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

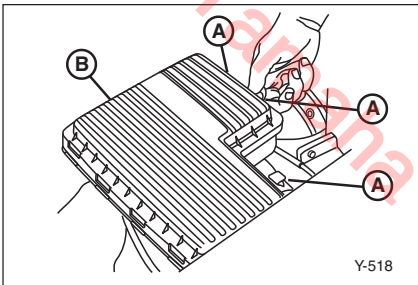


(A) Oil filler hole

## NOTICE

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

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



## Air Filter

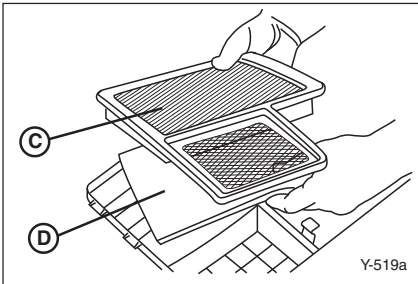
To remove the air filter elements:

1. Unlatch the air filter cover clips and remove cover.
2. Lift the air filter and pre-filter out of the air filter case.

- (A) Air filter cover clips
- (B) Air filter cover
- (C) Air filter
- (D) Pre-filter

## NOTICE

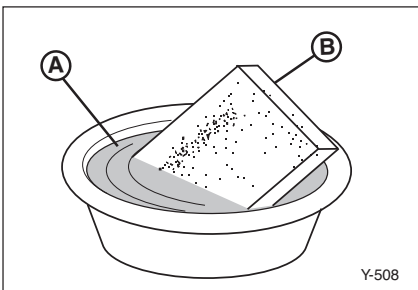
**Be careful not to drop anything into the air inlet. Serious engine damage can result.**



Inspection and cleaning:

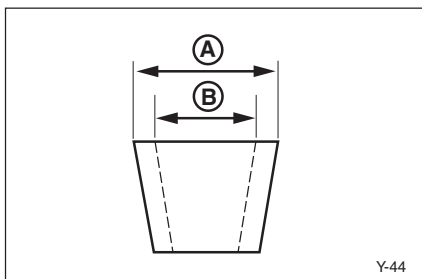
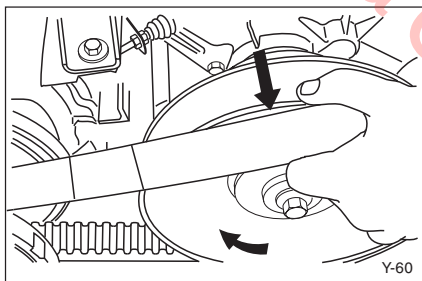
3. Wash the foam pre-filter in soap and water. Allow it to dry.
4. Check the filter element. If damaged or dirty, replace it.

- (A) Soap and water
- (B) Foam element



# MAINTENANCE

7



## NOTICE

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

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

## NOTICE

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

## Drive Belt

To remove the drive belt:

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

Inspection:

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

- Ⓐ New: 30.0 mm (1.18 in.)
- Ⓑ Replace when belt reaches: 27.5 mm (1.08 in.)

5. To install the drive belt, reverse the above steps, rolling the belt back over the secondary sheave.

# MAINTENANCE

## Clutch

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

## Battery

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

### ⚠ WARNING

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

Antidote:

**EXTERNAL:** Flush with water.

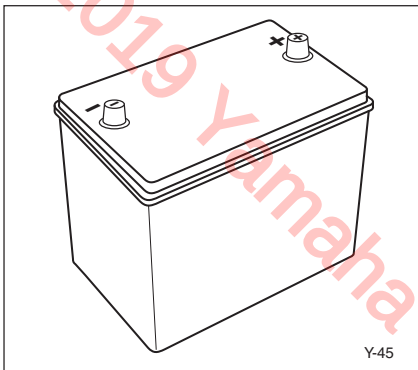
**INTERNAL:** Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately.

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

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

### ⚠ WARNING

Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries. **KEEP OUT OF REACH OF CHILDREN.**



Y-45

# MAINTENANCE

## Fuse Replacement

### ⚠ WARNING

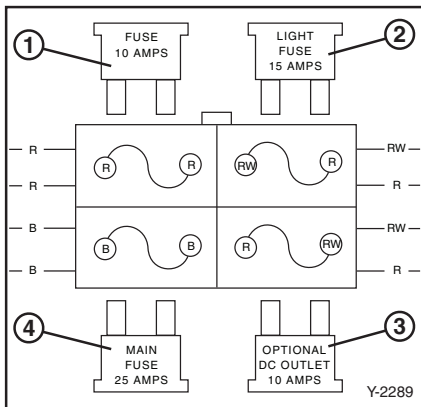
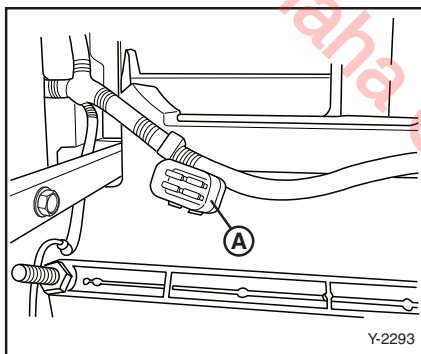
Be sure to use the specified fuse. Using a wrong fuse can cause electrical system damage and create a fire hazard. Death or serious personal injury can result from failing to comply with the warning labels in this manual.

### NOTICE

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

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

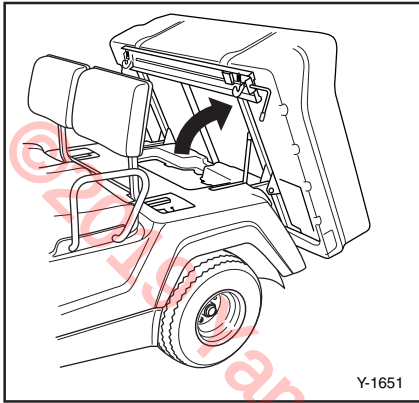
Ⓐ Fuse holder



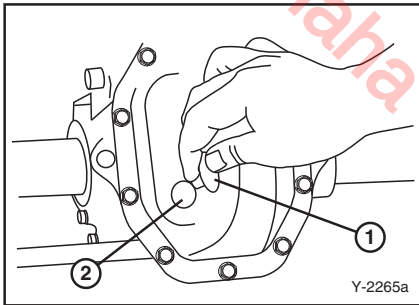
### Fuse Type:

- 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



Y-1651



Y-2265a

## Transaxle Oil

**To check transaxle oil level:**

1. Place the utility vehicle on a flat, level surface.
2. Raise the cargo bed.
3. Place an oil pan under the transaxle case.
4. Clean the area around the oil level plug ① and then remove the plug.

### NOTICE

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

5. The oil level should be right at the bottom of the oil level plug hole ② or just starting to flow out of the hole.
6. If needed, add Yamalube SAE 90 gear oil until it starts to flow from the oil level plug hole.
7. Allow excess gear oil to flow out of the hole until it stops.
8. Install the oil level plug.
9. Lower the cargo bed.

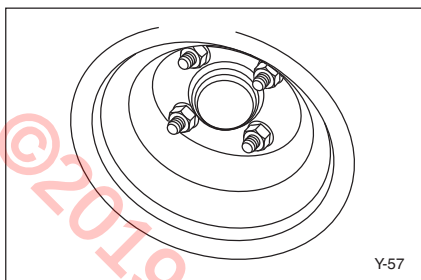
### TIP

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

### ⚠ 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.**

# MAINTENANCE



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

## Wheel Replacement

To remove and install a wheel on your utility vehicle:

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

## Brake Adjustment

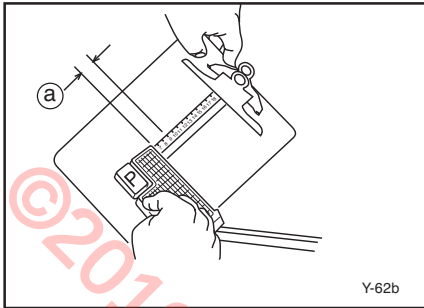
The brakes on your utility vehicle are self-adjusting.

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 utility vehicle if you suspect brake problems. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.**

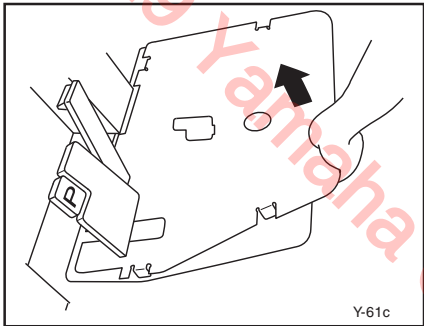
# MAINTENANCE



## Brake Pedal Free Play Adjustment

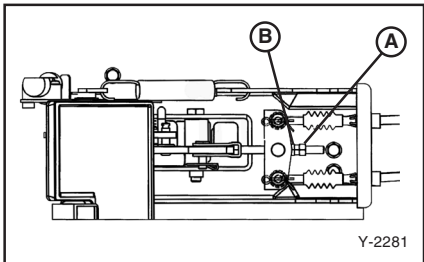
Check the brake pedal free play by pressing against the pedal with two fingers (using light force) and measuring the distance the pedal travels before resistance is felt.

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



To adjust the brake pedal free play:

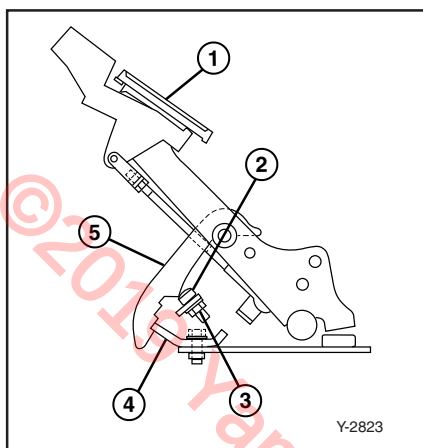
1. Remove the floor mat and service lid from the floor of the utility vehicle.
2. If the free play distance needs adjusting, loosen the lock nut (A) and turn the adjusting nut (B) in or out until the free play specification is met. Then tighten the lock nut in place.



### **⚠ WARNING**

**Do not over-tighten the brake cables. Over-tightening will increase brake wear and affect the overall performance of the 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.**

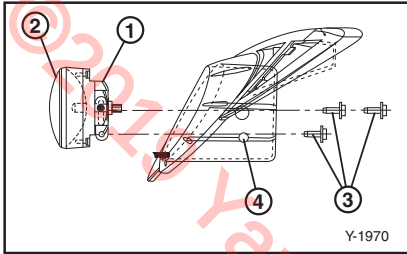
1. Apply pressure to the parking brake pedal until the brake nail catches the first latch position on the sector.
2. Loosen the locknut and turn the bolt counterclockwise until it contacts the sector.
3. Turn the bolt clockwise  $\frac{3}{8}$  (120 degrees), then tighten locknut.

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

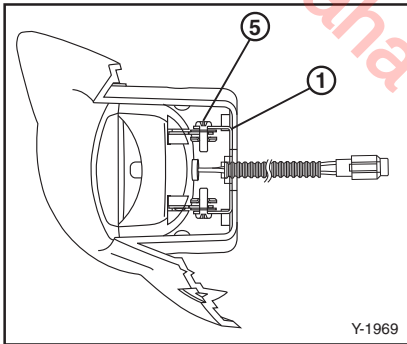
# MAINTENANCE

## Replacing a Headlight Bulb

If the headlight burns out replace it as follows:



1. Remove the bulb holder ① and bulb ② by removing the three screws ③ located on the back of the bezel ④.
2. Disconnect the wire connectors from the bulb.
3. Remove the two screws ⑤ located on the side of the bulb holder ① to gain access to the headlight bulb ②.
4. Insert a new bulb ② into the bulb holder ① and secure with the two bulb holder screws ⑤. Torque to 3 ~ 4.5 Nm, 0.3 ~ 0.45 m•kg (27 ~ 40 in•lb).
5. Reattach the bulb holder ① to the bezel ④ and torque to 3 ~ 4.5 Nm, 0.3 ~ 0.45 m•kg (27 ~ 40 in•lb).

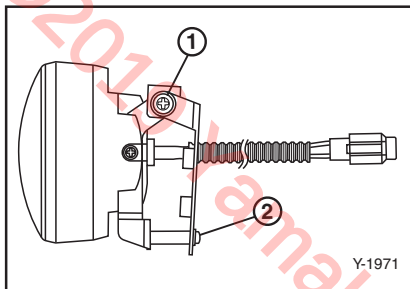


# MAINTENANCE

## Adjusting a Headlight

### NOTICE

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



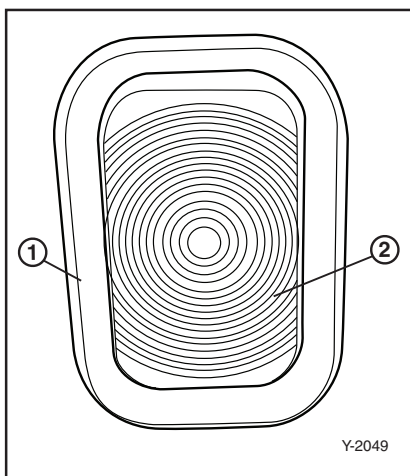
1. Loosen the two screws ① for the headlight bulb bracket. Do not remove the screws, just loosen them.

### TIP

The screws can be accessed from under the fender through the access holes on the sides of the headlight bezel.

2. Using a Phillips head screwdriver, turn the adjusting screw ②. Turning the screw clockwise will lower the beam and turning the screw counterclockwise will raise the beam.
3. Once the correct adjustment has been made, tighten the screws ① to  $3 \sim 4.5 \text{ Nm}$ ,  $0.3 \sim 0.45 \text{ m}\cdot\text{kg}$  ( $27 \sim 40 \text{ in}\cdot\text{lb}$ ).

## Replacing a Taillight Bulb



1. Disconnect the wire connector from the taillight.
2. Pull the rubber seal ① away from the body while pushing on the back of the taillight ②.
3. Remove the seal ① and the taillight ②.
4. Install the rubber seal into the body first.
5. Carefully push the new taillight into the seal. Make sure the seal stays seated in the rear body and the taillight is seated properly in the groove in the rubber seal.
6. Connect the wire connector.

# STORAGE

Fill the fuel tank with fresh fuel and add the specified amount of Fuel Med RX, which is available from your Yamaha dealer, 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 utility vehicle for extended periods of time:

## 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.**

## TIP

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

## 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.

# STORAGE

## 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:  
Front: 140-160 kPa,  
1.4-1.6 kgf/cm<sup>2</sup> (20-23 psi);  
Rear: 197-217 kPa,  
2.0-2.2 kgf/cm<sup>2</sup> (29-31 psi).
2. Clean exterior of the utility vehicle and apply a rust inhibitor.
3. Cover the utility vehicle with a breathable cover and store it in a dry, well-ventilated area.

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 vehicle 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.

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## BATTERY PREPARATION

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

# SPECIFICATIONS

## GENERAL SPECIFICATIONS

| Items                                                                                                                                                                                                                                                   | YTF2AX7F EFI UTILITY VEHICLE                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dimensions:</b><br>Overall length<br>Overall width<br>Overall height (steering height)<br>Height of floor<br>Wheelbase<br>Tread:<br>Front<br>Rear<br>Cargo bed size<br>Overall length<br>Overall width<br>Overall height<br>Minimum ground clearance | 2922 mm (115 in.)<br>1243 mm (48.9 in.)<br>1200 mm (47.2 in.)<br>300 mm (11.8 in.)<br>1917 mm (75.5 in.)<br>990 mm (39.0 in.)<br>980 mm (38.6 in.)<br>1209 mm (47.5 in.)<br>1243 mm (48.9 in.)<br>356 mm (14.0 in.)<br>115 mm (4.5 in.) |
| <b>Weight:</b><br>Dry weight (without battery)                                                                                                                                                                                                          | 383.5 kg (845 lb)                                                                                                                                                                                                                       |
| <b>Performance:</b><br>Factory speed setting<br>Maximum speed<br>Minimum turning radius<br>Seating capacity<br>Vehicle rated capacity<br>Cargo bed capacity<br>Towing capacity<br>Tongue weight<br>Gross vehicle weight                                 | 25.0 km/h (15.5 mph)<br>25.0 km/h (15.5 mph)<br>2.8 m (9.2 ft)<br>Two occupants per seat<br>590 kg (1300 lb)<br>363 kg (800 lb)<br>454 kg (1000 lb)<br>68 kg (150 lb)<br>771 kg (1700 lb)                                               |
| Fuel tank capacity                                                                                                                                                                                                                                      | 22.0 L (5.8 US gal)                                                                                                                                                                                                                     |
| Body color                                                                                                                                                                                                                                              | Tortuga                                                                                                                                                                                                                                 |

# SPECIFICATIONS

## ENGINE

| Items               | YTF2AX7F EFI UTILITY VEHICLE          |
|---------------------|---------------------------------------|
| Description:        |                                       |
| Engine type         | 4-stroke, Gasoline, 60° incline OHV   |
| Number of cylinders | Single                                |
| Displacement        | 357 cm³                               |
| Bore x stroke       | 85 x 63 mm (3.30 x 2.48 in.)          |
| Compression ratio   | 8:1                                   |
| Rated output        | 8.5 kw/3500 rpm/11.4 hp               |
| Cooling system      | Forced air-cooled                     |
| Starting system     | Electric-Starter/Generator            |
| Ignition system     | TCI Magneto                           |
| Spark plug type     | BPR2ES/BPR4ES                         |
| Spark plug gap      | 0.7-0.8 mm (0.028-0.031 in.)          |
| Lubrication system  | Splash-style positive oil lubrication |
| Engine oil type     | YAMALUBE 4-cycle oil or 10W30         |
| Engine oil capacity | 1.0 L, 1000 cc (1.0 US qt)            |
| Oil change quantity | 1.0 L, 1000 cc (1.0 US qt)            |

## TRANSMISSION

| Items                              | YTF2AX7F EFI UTILITY VEHICLE                                                                                                                                                                                               |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Transmission:                      |                                                                                                                                                                                                                            |
| Type                               | V-belt automatic centrifugal engagement                                                                                                                                                                                    |
| V-belt width and outer line length | 30.0 x 1010 mm (1.18 x 39.75 in.)                                                                                                                                                                                          |
| V-belt wear limit                  | 27.5 mm (1.08 in.)                                                                                                                                                                                                         |
| Governor:                          |                                                                                                                                                                                                                            |
| Type                               | Oil bath flyweight                                                                                                                                                                                                         |
| Factory speed setting              | 25.7 km/h (16 mph)                                                                                                                                                                                                         |
| Differential/reduction gear        | Secondary reduction system helical gear<br>Secondary reduction ratio:<br>Forward 11.34:1; Reverse 15.25:1<br>Differential type bevel gear<br>Lubricant/capacity Yamalube SAE 90<br>gear oil/355 cc<br>(355 mL, 0.38 US qt) |

# SPECIFICATIONS

## BATTERIES

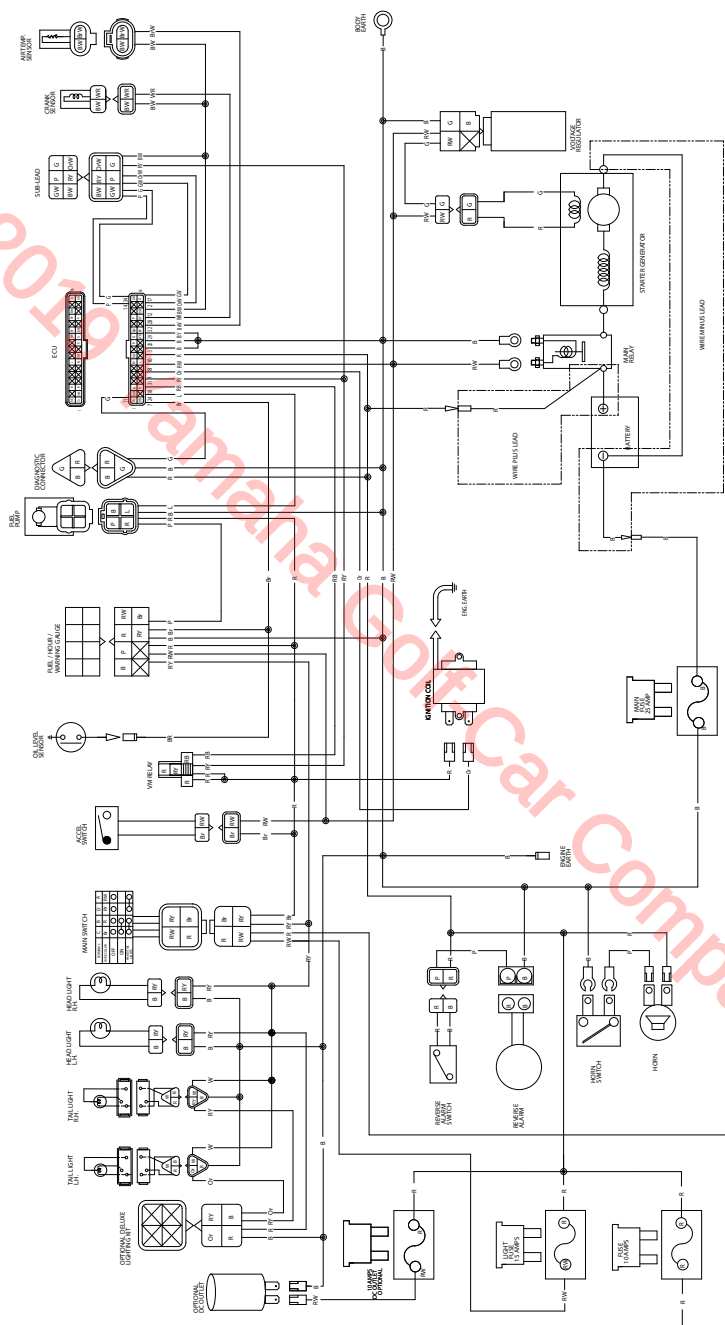
| Items    | YTF2AX7F EFI UTILITY VEHICLE                             |
|----------|----------------------------------------------------------|
| Battery: | BCI group 24,<br>RC: minimum 75 min<br>CCA: minimum 400A |

## CHASSIS

| Items                                                                                                                 | YTF2AX7F EFI UTILITY VEHICLE                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suspension:<br>Front<br>Rear<br>Lights:<br>Bulb voltage, wattage x quantity:<br>Headlight<br>Taillight                | Independent (oil-over strut type)<br>Pivoted trailing arm (mono-link)<br><br>12 V, 35 W x 2<br>12 V / 2.1 amp and .48 amp x 2                                                                          |
| Steering system:<br>Type<br>Steering angle (L.H.)<br>Steering angle (R.H.)                                            | Rack and Pinion<br>1.85 turn<br>1.85 turn                                                                                                                                                              |
| Brakes:<br>Brake system<br><br>Type of brake<br><br>Brake pedal freeplay linkage adjustment<br>(Brake cable end play) | Mechanical drum brake on each rear wheel with self-adjusters<br>Dual internal expanding shoe<br>Leading/trailing shoes (self-adjusting)<br><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.                                                                                                                                                       |
| Wheel:<br>Tire size:<br>Front<br>Rear<br>Rim size<br>Tire pressure:<br>Front<br>Rear                                  | 18 x 8.50-8.00/4-ply turf type<br>18 x 8.50-8.00/6-ply turf type<br>7.00-1-8.00<br><br>140-160 kPa, 1.4-1.6 kgf/cm <sup>2</sup> (20-23 psi)<br>197-217 kPa, 2.0-2.2 kgf/cm <sup>2</sup> (29-31 psi)    |

## WIRING

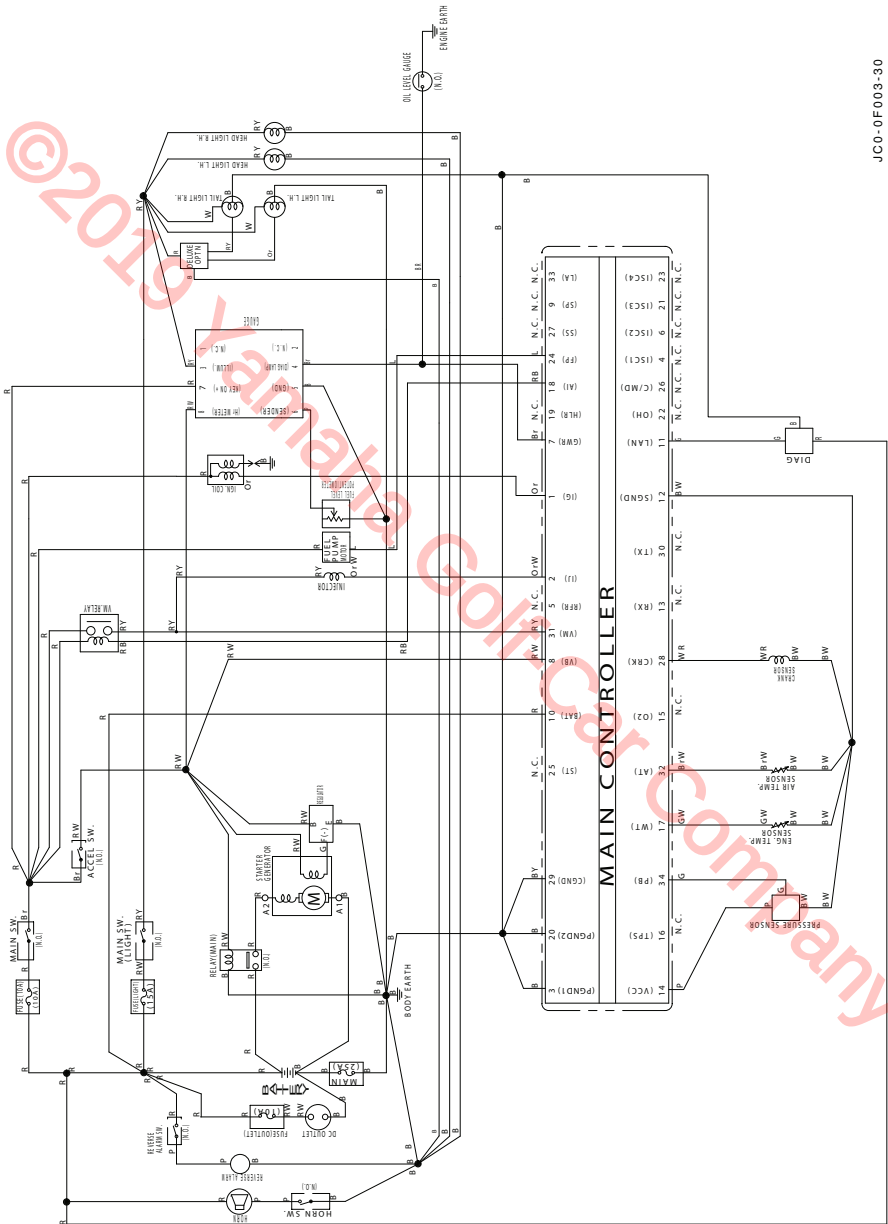
## YTF2AX7F EFI WIRING DIAGRAM



JCO-0F001-30

# YTF2AX7F EFI WIRING DIAGRAM

# WIRING



JCO-0F003-30

## NOTES

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