



MODEL YEAR **2024**

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



**UTILITY VEHICLE**

**⚠ Read this manual carefully before operating this vehicle.**



**UMAX RALLY 2+2**

**YUM2A UMAX RALLY 2+2**



**WARNING:** Operating, servicing and maintaining a passenger vehicle or off-road vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to [www.P65Warnings.ca.gov/passenger-vehicle](http://www.P65Warnings.ca.gov/passenger-vehicle)

# 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 Golf-Car Company**

**YUM2A UMAX RALLY 2+2  
OWNER'S / OPERATOR'S MANUAL  
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1st edition, June 2023  
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Printed in U.S.A.  
LIT-19626-A3-30**

# 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. |
|  <b>WARNING</b> | A <b>WARNING</b> indicates a hazardous situation which, if not avoided, could result in death or serious injury.                                                                   |
| <b>NOTICE</b>                                                                                    | A <b>NOTICE</b> indicates special precautions that must be taken to avoid damage to the vehicle or other property.                                                                 |
| <b>TIP</b>                                                                                       | A <b>TIP</b> 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

## 2-YEAR LIMITED 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.

| Car Components                         | Warranty Period        | Electric Car Specific Parts   | Warranty Period                                                                              |
|----------------------------------------|------------------------|-------------------------------|----------------------------------------------------------------------------------------------|
| Brake System (Excluding Shoes / Drums) | 2 Years                | Battery - Trojan T105 FLA     | 4 Years or 20,000 amp hours whichever comes first / <b>without</b> HydroLink Watering System |
| Body Parts                             | 2 Years                |                               | 4 Years or 21,500 amp hours whichever comes first / <b>with</b> HydroLink Watering System    |
| Bumpers / Rear Floor Cover (Bag Well)  | 2 Years                |                               | <i>*See Trojan Warranty Statement for details</i>                                            |
| Electrical Wires, Switches, and Relays | 2 Years                | Battery - Trojan T875 AGM     | 5 Years or 50,000 amp hours whichever comes first                                            |
| Frame Assy                             | 2 Years                |                               | <i>*See Trojan Warranty Statement for details</i>                                            |
| Floor Mats                             | 2 Years                | Battery Charger and DC Cord   | 2 Years                                                                                      |
| Pedal Assy                             | 2 Years                | Electric Motor and MCU        | 2 Years                                                                                      |
| Scorecard Holder                       | 2 Years                | Charger Receptacle            | 2 Years                                                                                      |
| Seats                                  | 2 Years                | Throttle Sensor Assy          | 2 Years                                                                                      |
| Steering / Suspension Components       | 2 Years                | <b>Gas Car Specific Parts</b> | <b>Warranty Period</b>                                                                       |
| Transaxle / Transmission               | 2 Years                | Clutch (Excluding Drive Belt) | 2 Years                                                                                      |
| <b>Common Accessories</b>              | <b>Warranty Period</b> | Intake and/or Exhaust System  | 2 Years                                                                                      |
| Windshield                             | 3 years                | Gas Engine                    | 2 Years                                                                                      |
| Sun Top                                | 2 Years                | Starter Generator             | 2 Years                                                                                      |
| Tail Light                             | 2 Years                | Starting Battery              | 1 Year                                                                                       |
|                                        |                        | Throttle / Control Cables     | 2 Years                                                                                      |
|                                        |                        | <b>All Remaining Parts</b>    | <b>1 Year</b>                                                                                |

**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.
- Damage due to improper transportation.
- Acts of God, e.g. 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, personal transportation vehicle (PTV), or commercial (Utility) vehicle as specified in the appropriate Owner's/Operator's manual, and
- Give notice to an authorized Yamaha Golf car dealer/distributor of all apparent defects within ten (10) days of discovery, and make the car available at that time for inspection and repairs at the dealer's/distributor's place of business, and
- Transporting the car to and from an authorized dealer or distributor for warranty service.

**WARRANTY TRANSFER:** This warranty is to the original purchaser and is not transferable.

### EMISSION CONTROL SYSTEM WARRANTY:

Yamaha Golf-Car Company also warrants to the ultimate purchaser of each gas-powered golf car covered by this warranty that the product is designed, built, and equipped so as to conform at the time of sale with all U.S. emission standards applicable at the time of manufacture and that it is free from defects in materials and workmanship which would cause it not to meet these standards within the same time period described in THE PERIOD OF WARRANTY above, or a minimum of two years, whichever is longer. Failures other than those resulting from defects in material or workmanship which arise solely as a result of owner abuse and/or lack of proper maintenance are not covered by this 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.**

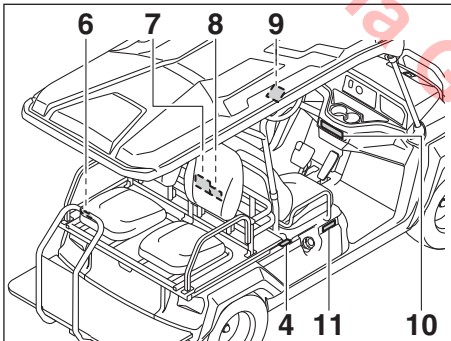
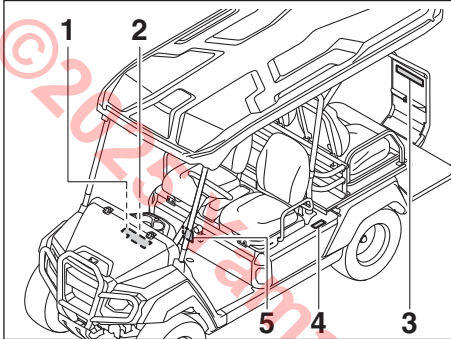
**Some states do not allow limitations on how long implied warranty lasts, so the above limitation may not apply to you. Also excluded from this Warranty is any incidental or consequential damages including loss of use. Some states do not allow the exclusion or limitation of incidental or consequential 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.**

# IMPORTANT LABELS



## SAFETY AND INSTRUCTION LABELS

Read the following labels carefully before operating your utility vehicle. If any of these labels are damaged or missing, contact a Yamaha dealer for replacements.



# IMPORTANT LABELS

1

## ⚠ WARNING

- Do not sit or stand in storage area.
- Fuel vapors can be a fire or explosion hazard. To avoid injury or death, never store fuel or flammable liquids in this storage compartment.
- Storage should not exceed 22lb (10kg)

YAMAHA

\*\*\*F151F-\*\*

2

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



THIS EQUIPMENT CONFORMS TO \*\*\* CALIFORNIA EV/EXH EMISSION REGULATIONS AND THIS ENGINE MEETS U.S. EPA EXH/EVAP REGS FOR \*\*\*.

EF:\*\*\*\*\*

DISPLACEMENT: \*\*\* cc

EMISSION CONTROL SYSTEM: \*\*\*

EVAPORATIVE CODE CARB: \*\*\*\*\*

EVAPORATIVE CODE EPA: \*\*\*\*\*

THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE

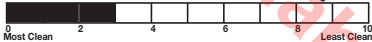
MAINTENANCE SPECIFICATIONS

ENGINE OIL: SAE 10W-30

SPARK PLUG GAP: .028-.031 in

NO OTHER ADJUSTMENTS NEEDED

The air index of this engine is 3



Note: The lower the Air Index, the less Pollution

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

[ ] Moderate (250hours) [ ] Intermediate (500hours) [X] Extended (1000hours)

Check owner's manual for further details.

\*\*\*F179T-\*\*

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



THIS ENGINE MEETS U.S. EPA EXH/EVAP REGS FOR \*\*\*.

EF:\*\*\*\*\*

DISPLACEMENT: \*\*\*\*\*

EMISSION CONTROL SYSTEM: \*\*\*

EVAPORATIVE CODE EPA: \*\*\*\*\*

THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE

MAINTENANCE SPECIFICATIONS

ENGINE OIL: SAE 10W-30

SPARK PLUG GAP: .028-.031 in

Check owner's manual for further details.

Not Certified for sales in CALIFORNIA.

\*\*\*F179T-\*\*

3

## ⚠ WARNING

To reduce the risk of accidents and injury or DEATH:

### CARRYING PASSENGERS

- Do not allow more than 1 passenger per seat.
- Maximum combined load: 181 kg (400 lb)
- Keep entire body inside vehicle.

### CARRYING CARGO

- When seat is flipped down, do not carry passengers in cargo area.
- Maximum load in cargo area: 113 kg (250 lb)
- When loaded with cargo:
  - Reduce speed and allow more room to stop.
  - Turn gradually and go slowly.
  - Avoid hills and rough terrain.

YAMAHA

- Remain fully seated and hold on to the hand holds when in motion.
- Do not allow children to ride unsupervised.

- 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 and strike occupants.
  - Keep weight in the cargo area centered side to side, and as low and as far forward as possible.
  - Top-heavy loads increase the risk of overturn.
- Read Owner's/Operator's Manual before loading.

Static electricity sparks can ignite fuel vapor causing FIRE or EXPLOSION.

- Do not fill portable fuel container (gas can) in vehicle.
- 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 vehicle.

Improper tire pressure or overloading can cause loss of control. To reduce the risk of accidents and injury or DEATH:

- Operating tire pressure: set with tires cold.

23x10.5-12, 4-ply rated tire

Recommended Front: 137 kPa, 20 psi

Rear: 137 kPa, 20 psi

Minimum

Front: 124 kPa, 18 psi

Rear: 124 kPa, 18 psi



Keep hands, body, other persons, away from pinch points on surface below when flipping the seat.

\*\*\*K7766-\*\*

4



YAMAHA

**⚠ WARNING**

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

\*\*\*-K7764-\*\*

5



6



YAMAHA

**⚠ WARNING**

**PINCH POINT**

\*\*\*-K7763-\*\*

7

YEAR OF CONSTRUCTION: \*\*\*\* MY\*\*\*\*

YAMAHA MOTOR POWERED PRODUCTS CO., LTD

200-1 SAKAGAWA, KAKEGAWA, JAPAN

MODEL: \*\*\*\*\*

GROSS POWER: \*\*\*\*\* hp/\*\*\*\*\* kW      LOAD CAP.: \*\*\* kg (\*\*\* lb)

NOMINAL BATTERY VOLTAGE: \*\*V VEHICLE WEIGHT: \*\*\*\*\*kg (\*\*\*\* lb)

BATTERY WEIGHT MAX.: \*\* kg      G.V.W.R.: \*\*\*\*\* kg (\*\*\*\*\* lb)

This vehicle complies to SAE-J-2258 2016      \*\*\*-F4236-\*\*

## IMPORTANT LABELS

8

CAN ICES-002/NMB-002

\*\*\*-H5377-\*\*

2

9

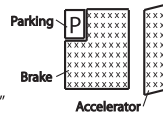
**⚠ WARNING**

To reduce the risk of accidents and injury or DEATH:

- This vehicle is recommended only for operators 16 and older with valid motor vehicle license.
- **Adults** must supervise use by minors. Check state laws for minimum age requirements.
- **Drive** slowly in curves. 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.
- Drive straight up and down hills- driving across the side of hill increases the risk of overturn.
- Passenger and cargo can affect vehicle handling.

## 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

\*\*\*-K7762-\*\*\*

10

## ⚠ WARNING

**To reduce the risk of accidents and injury or DEATH:**

- Vehicle capacity: 1 occupant per seat.
- Operate only when authorized and only in designated areas.
- Operate from driver's seat only.
- Do not start vehicle until all occupants are seated.
- Remain seated and hold on while in motion.
- Keep entire body inside vehicle.
- Vehicle rated capacity (driver, passenger, cargo, trailer, and load) 1000 lbs (454 kg) on level surface.
- Do not operate or ride the vehicle while distracted or under the influence of alcohol or drugs.
- Locate and read Owner's Manual. Follow all instructions and warnings.

YAMAHA

\*\*\*-K7768-\*\*

DRIVER  
UNDER  
16

11

## WARNING



**GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. A fire or explosion 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 modify fuel system.
- Services should be performed by dealer or qualified personnel.

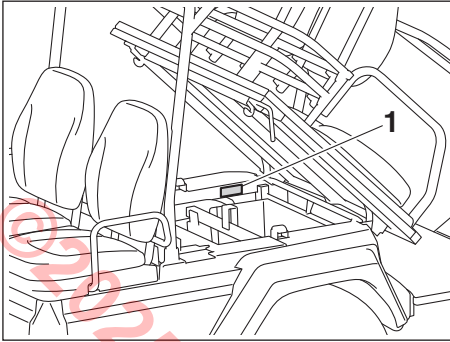
YAMAHA

OPERATION AT HIGHER SPEEDS  
COULD CAUSE LOSS OF CONTROL  
THAT COULD RESULT IN SEVERE  
INJURY OR DEATH.

- Do not tamper with governor to increase speed.

\*\*\*-K8297-\*\*\*

# IMPORTANT LABELS



1. Vehicle serial number

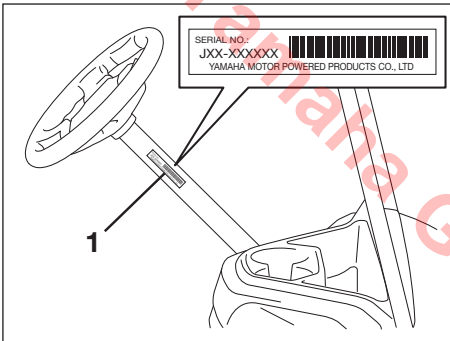
## SERIAL NUMBER

The serial number is identified in the location shown.

### TIP

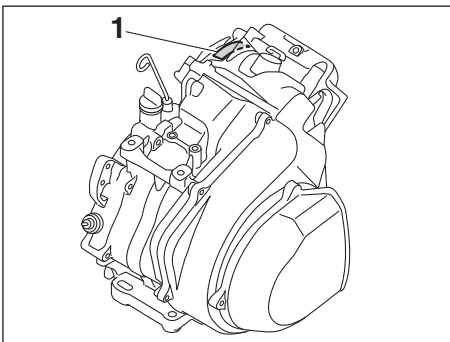
The first three digits of the serial number are for model identification; the remaining digits are the unit production number. Keep a record of these numbers for reference when ordering parts from a Yamaha dealer.

2



1. Vehicle serial number

Serial number:

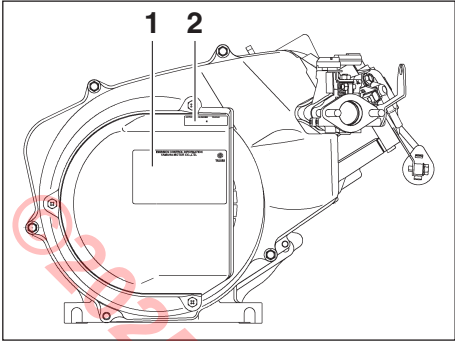


1. Engine serial number

The engine serial number is affixed in the location shown.

# IMPORTANT LABELS

2



- 1. Engine information
- 2. APPROVAL NUMBER

1

EMISSION CONTROL INFORMATION  
YAMAHA MOTOR CO.,LTD.

This engine meets \*\*\*\* California exhaust emission regulations for small off-road engines.

THIS ENGINE MEETS U.S.EPA EXH REGS FOR \*\*\*\*.

EMISSION COMPLIANCE PERIOD : 1000HOURS

EF : \*\*\*\*\*

DISPLACEMENT : \*\*\* cc

EMISSION CONTROL SYSTEM : \*\*\*

This engine is certified to operate on unleaded gasoline.

ENGINE OIL : SAE 10W-30 TYPE : SE No other adjustments needed.

The air index of this engine is 3 (California only)

0246810

MOST CLEAN

LEAST CLEAN

Note : The lower the air index, the less the pollution.

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

☐ MODERATE  
(250 HOURS)

☐ INTERMEDIATE  
(500 HOURS)

☒ EXTENDED  
(1000 HOURS)

Check owner's manual for further details.

2

APPROVAL NUMBER YAMAHA

\*\*\*\*\*

Production date : See stamp on Crankcase.

Serial : See Label on Air shroud.

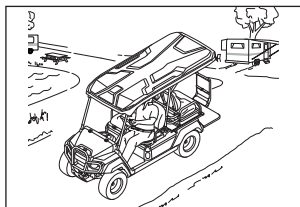
Engine family : \*\*\*\*\*

\*\*\*-1186-\*\*\*

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:

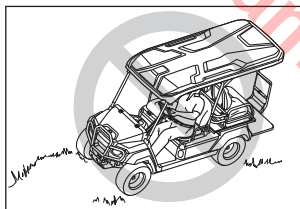
## BEFORE OPERATING THE UTILITY VEHICLE

- 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 one occupant per seat. This utility vehicle is restricted to four 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 backrest.
- Never carry passengers in the cargo area.
- 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.
- Do not operate the utility vehicle on public streets, roads or highways unless allowed by law or the local regulating authority.
- This vehicle may go faster than the intended speed for campground pathways. Do not use on such pathways without specific permission from campground management.
- 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.

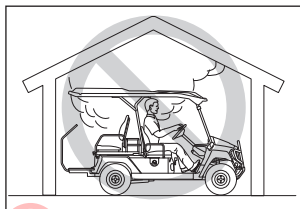


## WHILE OPERATING THE UTILITY VEHICLE

- 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.
- 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 10 cm (4 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.



## SAFETY INFORMATION



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

### CARRYING PASSENGERS

- This vehicle is designed to carry the driver and up to three passengers. When the rear seat cushion area is flipped rearward, do not carry passengers in the cargo area.
- Passengers must remain fully seated and hold on to the hand holds when in motion.
- Do not allow children to ride unsupervised.

3

### 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.

## SAFETY INFORMATION

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- Use extra caution when driving a utility vehicle with accessories. The utility vehicle may handle differently than it does without accessories.

### **Loading**

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

- Never exceed the weight limits shown on page 55. An overloaded utility vehicle can be unstable.
- Cargo should be as far forward in the cargo area 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. Although conditions vary, it is good practice not to exceed low range whenever you are carrying heavier loads.
- Allow more braking distance. A heavier vehicle takes longer to stop. Do not brake abruptly when carrying loads in the cargo area.
- 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.

### **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.

## SAFETY INFORMATION

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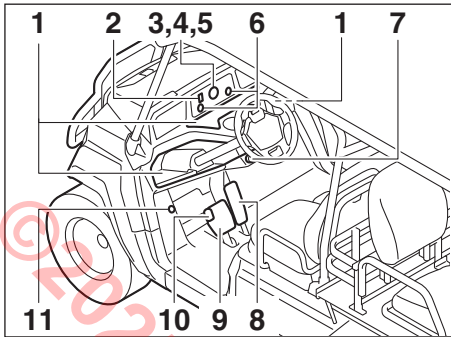
3

- Maintain all safety devices, including brakes, steering mechanisms, warning devices and governors, in a safe operating condition. Do not modify these safety devices as supplied by the manufacturer.
- After each maintenance or repair, the vehicle must be driven by a qualified, trained and authorized person – in an area free of pedestrian traffic – to ensure proper operation and adjustment.
- Record all maintenance performed in a maintenance record log by date, name of person performing maintenance and type of maintenance. Periodically inspect maintenance log to ensure accurate and complete entries.
- 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**

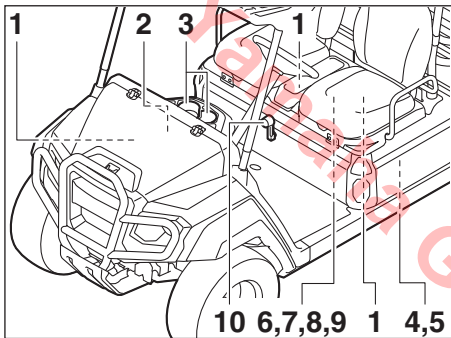
Take the following precautions to ensure maintenance worker safety:

- 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.

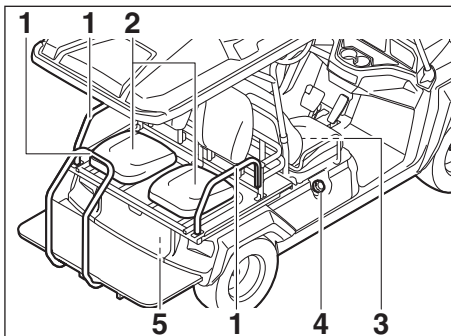


## FEATURES

1. Storage compartment
2. Light switch
3. Engine/oil warning light
4. Fuel gauge
5. Hour meter
6. USB port
7. Main switch
8. Accelerator pedal
9. Brake pedal
10. Parking brake pedal
11. Horn switch

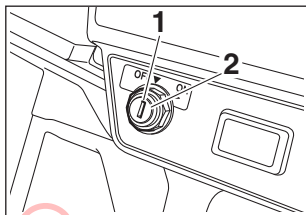


1. Storage compartment
2. USB fuse
3. Cup holder
4. Battery
5. Fuses
6. Air filter
7. Engine oil level dipstick
8. Engine oil filler hole
9. Spark plug
10. Drive select lever



1. Hand hold
2. Rear seat
3. Storage compartment
4. Fuel cap
5. Transaxle oil level plug

# CONTROLS



1. OFF
2. ON

## MAIN SWITCH

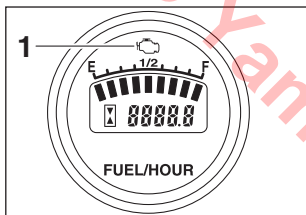
The main switch positions are described below.

### “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.



1. Engine/oil warning light

## ENGINE/OIL WARNING LIGHT

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

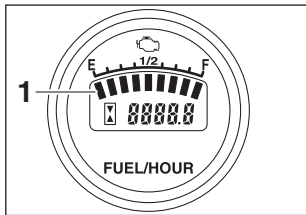
### NOTICE

**If the light comes on, stop the engine, check the engine oil level and add oil as necessary.**

When the engine/oil warning light is flashing while the main switch is in the “ON” position, 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

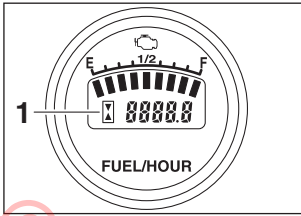
**If the light is flashing, do not operate the vehicle. Contact your Yamaha Service representative to have the vehicle serviced.**



1. Fuel gauge

## FUEL GAUGE

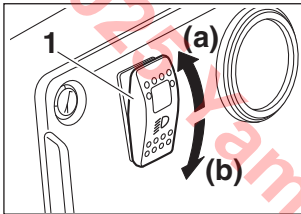
The fuel gauge displays the fuel level in the fuel tank. The fuel gauge will only work when the main switch is in the “ON” position.



1. Hour meter

## HOURL 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.



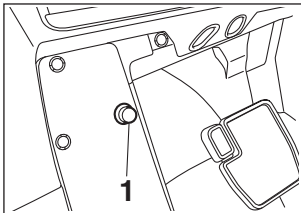
1. Light switch

## LIGHT SWITCH “☞”

Push the upper side (a) of the light switch to turn on the headlights and meter lighting.

Push the lower side (b) of the light switch to turn off the headlights and meter lighting.

4



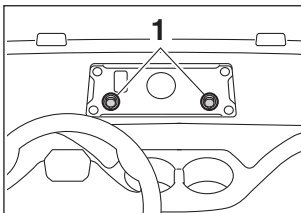
1. Horn switch

## HORN SWITCH

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

### TIP

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



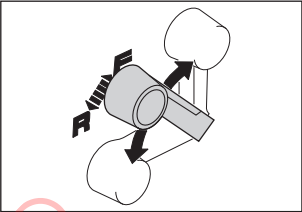
1. USB port

## USB PORTS

The USB ports are in the locations shown.

The USB ports can be used to power or charge USB devices or accessories. The USB ports are powered only when the main switch is in the on position.

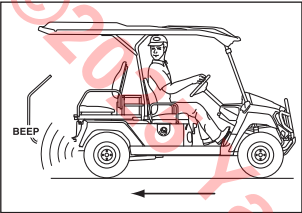
# CONTROLS



## DRIVE SELECT LEVER

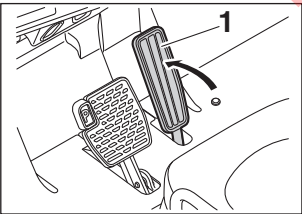
The drive select lever is used to shift the utility vehicle into forward or reverse. After coming to a complete stop, move the lever to the desired position.

| Lever Position | Vehicle Movement |
|----------------|------------------|
| F              | Forward          |
| R              | Reverse          |



### TIP

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

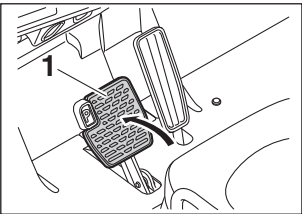


1. Accelerator pedal

## ACCELERATOR PEDAL

The accelerator pedal controls the vehicle's speed.

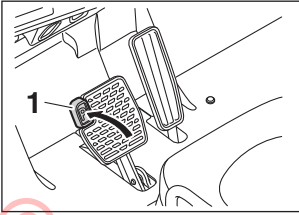
| Action        | Vehicle Speed |
|---------------|---------------|
| Depress pedal | Increase      |
| Release pedal | Decrease      |



1. Brake pedal

## BRAKE PEDAL

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



1. Parking brake pedal

## PARKING BRAKE PEDAL

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

### TIP

Release the parking brake by depressing the accelerator pedal.

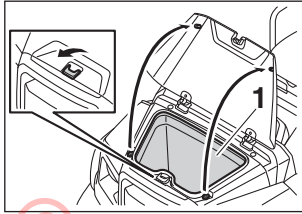


### WARNING

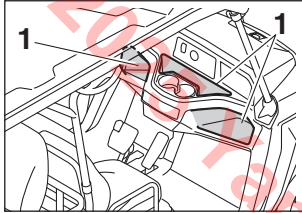
The parking brake will automatically release when the accelerator pedal is depressed. If the main switch is in the “ON” position, depressing the accelerator may suddenly cause the utility vehicle to move.

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

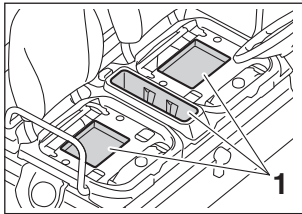
# CONTROLS



1. Storage compartment



1. Storage compartment



1. Storage compartment

## STORAGE COMPARTMENTS

This model is equipped with storage compartments in the locations shown.

### Maximum load limit:

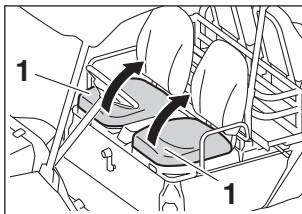
Under-hood storage compartment:

10 kg (22 lb)

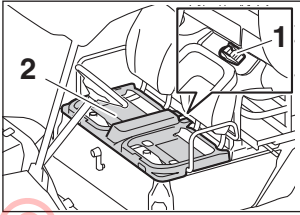
## FRONT SEAT

### To remove

1. Lift the front of the seat cushion, and then pull the cushion off.

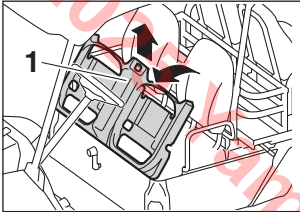


1. Seat cushion



1. Tab
2. Under-seat panel

2. Pull the tab on the under-seat panel lock up, and then turn the lock 1/4 turn clockwise.

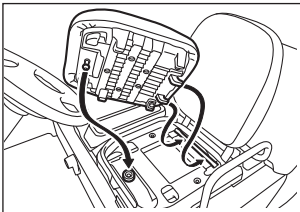


1. Under-seat panel

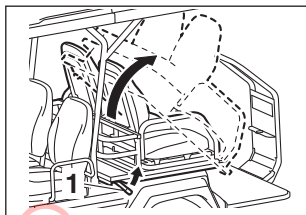
3. Remove the under-seat panel as shown.

## To install

1. Place the under-seat panel in the original position.
2. Turn the lock 1/4 turn counterclockwise, and then push the tab on the lock down.
3. Insert the projections on the rear of the seat cushion under the seat frame, and then insert the projection on the front of the cushion into the grommet while pushing the cushion downward.



# CONTROLS



1. Rear seating area release lever

## LIFTING AND LOWERING THE REAR SEATING AREA

### To lift

Pull up the rear seating area release lever, and then slowly lift up the seating area until it stops.

### To lower

With hands and fingers clear of pinch points, lower the rear seating area slowly to its original position and be sure it is locked into place.

### **WARNING**

#### **Crush Hazard**

- Keep hands and fingers away from rear seating area.
- Have others back away from vehicle before lowering the rear seating area.
- Do not allow passengers to sit on the seats when lowering the rear seating area.

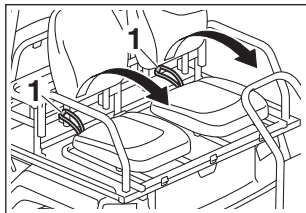
Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

## CARGO AREA

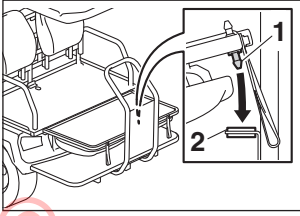
To use the cargo area, flip the rear seat cushion area rearward.

### To use the cargo area

1. Pull the straps to lift up the rear seat cushion area, and then flip the cushion area rearward.



1. Strap



1. Projection
2. Grommet

2. Fit the projection on the rear seat cushion area into the grommet to secure the cushion area.

Always make sure your cargo is secure when using the cargo area. Tie the load down with cords or straps where needed.

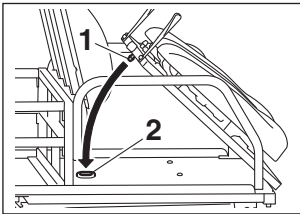
## **! WARNING**

- There are several pinch points for the rear seat cushion area when flipping it rearward. Use care when flipping the cushion area rearward so nothing is in the area of these pinch points.
- Never allow passengers to ride on the cargo area when the rear seat cushion area is flipped rearward. There is no seating and passengers can easily fall off.

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

## **Maximum load limit:**

Cargo area:  
113 kg (250 lb)



1. Projection
2. Grommet

## To use the rear seats

Lift up the rear seat cushion area, flip the cushion area forward, and then fit the projection on the bottom of the cushion area into the grommet to secure the cushion area.

# 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

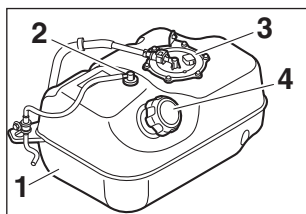
To keep vehicle from moving while performing pre-operation checks:

- 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 CHECKS

Refer to the Periodic Maintenance and adjustment charts on page 33.



1. Fuel tank
2. Fuel tank vent
3. EFI fuel pump
4. Fuel cap

## FUEL SYSTEM

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

## 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.

## TIP

To access the fuel tank, remove the front seat.

### Recommended fuel:

Regular unleaded gasoline (Gasohol [E10] acceptable)

### Fuel tank capacity:

20 L (5.2 US gal)

# PRE-OPERATION CHECKS

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 fuel cap securely after refueling.



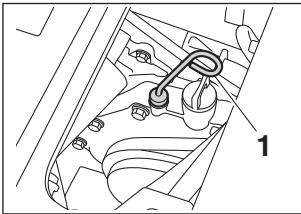
## WARNING

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.

## NOTICE

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



1. Oil level dipstick

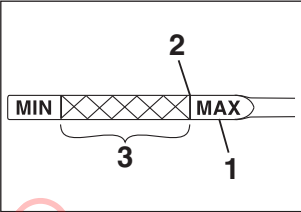
## ENGINE OIL

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).

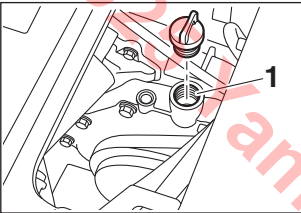
## TIP

To access the dipstick, lift the rear seating area up.

# PRE-OPERATION CHECKS



- 1. Oil level dipstick
- 2. Maximum oil level
- 3. Safe operating range



- 1. Oil filler hole

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.

## 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.

Recommended oil brand:

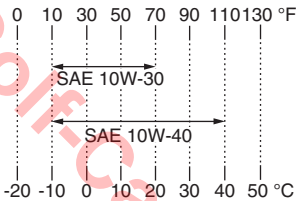


Available oil grade:

API SE type or higher JASO MA or MB

Available viscosity index:

10W-30 or 10W-40



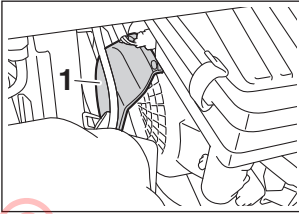
Engine oil capacity:

1.10 L (1.16 US qt)

## TIP

The distance between the dipstick marks represents approx. 0.5 L (0.5 US qt) of oil.

# PRE-OPERATION CHECKS



1. Engine cooling inlet duct

## ENGINE COOLING INLET DUCT

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

### TIP

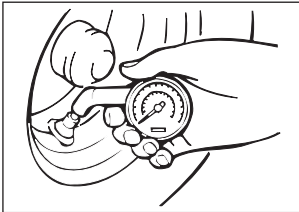
To access the engine cooling inlet duct, remove the front seat.

## BATTERY

Check that the battery is held securely in place to prevent the battery from being damaged from vibration or jarring. Check the battery terminals for corrosion and tightness.

### ⚠ 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.**



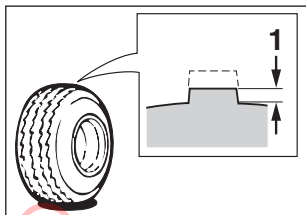
## TIRE CONDITION

### Tire Air Pressure

Check the tire air pressure before operating the utility vehicle.

| Tire pressure       |                                             |
|---------------------|---------------------------------------------|
| <b>Recommended:</b> |                                             |
| Front:              | 137 kPa (1.40 kgf/cm <sup>2</sup> , 20 psi) |
| Rear:               | 137 kPa (1.40 kgf/cm <sup>2</sup> , 20 psi) |
| <b>Minimum:</b>     |                                             |
| Front:              | 124 kPa (1.26 kgf/cm <sup>2</sup> , 18 psi) |
| Rear:               | 124 kPa (1.26 kgf/cm <sup>2</sup> , 18 psi) |

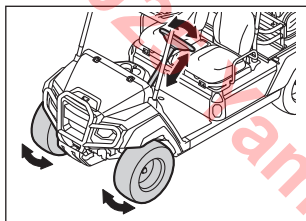
# PRE-OPERATION CHECKS



1. Wear limit

## Tire Wear Limit

Check the tire surface for damage, cracks or embedded objects. When tire tread wears down to 3 mm (0.12 in.), replace the tire.

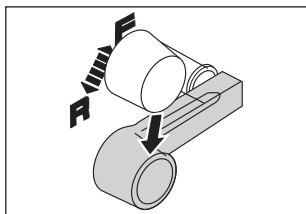


## STEERING SYSTEM

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.

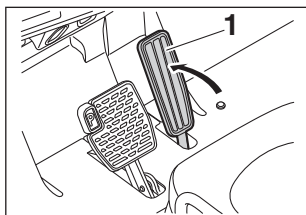


## REVERSE ALARM

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.



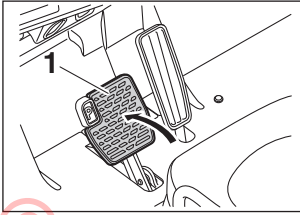
1. Accelerator pedal

## Accelerator Pedal

### WARNING

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

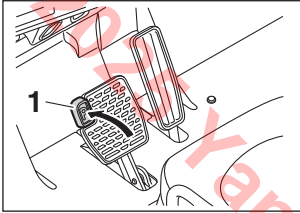
# PRE-OPERATION CHECKS



1. Brake pedal

## Brake Pedal

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



1. Parking 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.

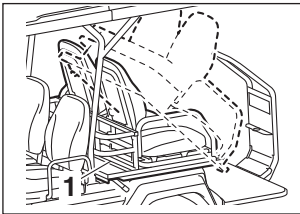
### TIP

Release the parking brake by depressing the accelerator pedal.

5

## BODY AND CHASSIS

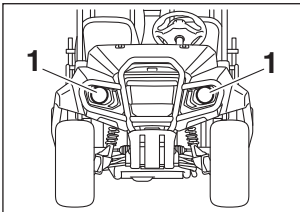
Before each use, visually inspect the utility vehicle body and chassis for damage and/or missing parts.



1. Rear seating area

## REAR SEATING AREA

Make sure the rear seating area is lowered completely and is latched in the down position.



1. Headlight

## HEADLIGHTS

Ensure the headlights are operational.

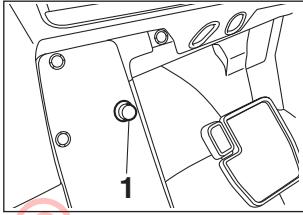


### WARNING

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

# PRE-OPERATION CHECKS

---

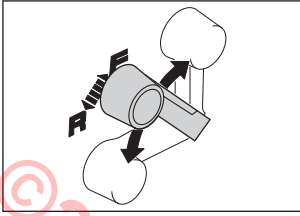


## HORN SWITCH

Make sure the horn operates correctly.

1. Horn switch

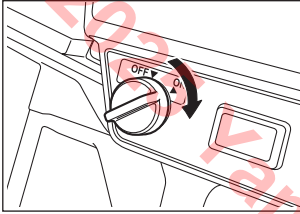
## STARTING



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

### NOTICE

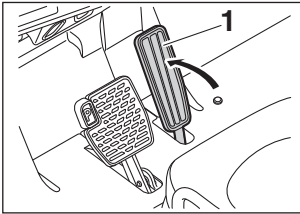
**Do not shift from “F” forward to “R” reverse while the utility vehicle is moving. Transmission damage can result.**



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

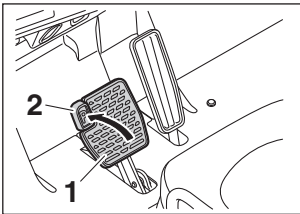


3. Check that your path is clear in the direction you plan to go, and slowly depress the accelerator pedal. The vehicle will start to move.

### TIP

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

1. Accelerator pedal



1. Brake pedal  
2. Parking brake pedal

## STOPPING

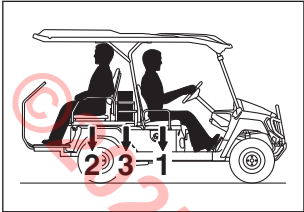
To stop the utility vehicle, gradually press down on the brake pedal.

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

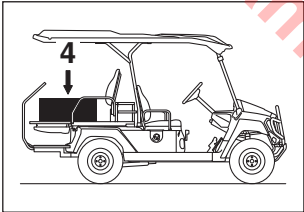
### NOTICE

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

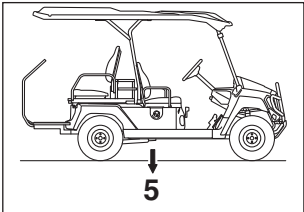
# OPERATION



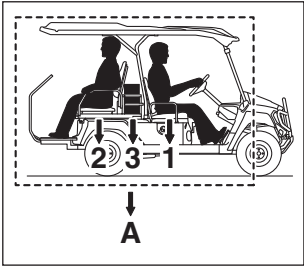
- 1. Occupant Capacity
- 2. Occupant Capacity
- 3. Maximum Cargo Area Capacity



- 4. Maximum Cargo Area Capacity



- 5. Vehicle Weight



- A. Vehicle Rated Capacity
- B. Maximum Gross Vehicle Weight Rating (5+A)

## LOADING

Cargo can change the stability and handling of a vehicle.

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

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

|   |                   |
|---|-------------------|
| 1 | 181 kg (400 lb)   |
| 2 | 181 kg (400 lb)   |
| 3 | 91 kg (200 lb)    |
| 4 | 113 kg (250 lb)   |
| 5 | 610 kg (1345 lb)  |
| A | 454 kg (1000 lb)  |
| B | 1064 kg (2345 lb) |

- Load cargo in the cargo area as close to the center of the vehicle as possible to avoid tipping the vehicle.
- Cargo should be as far forward in the cargo area 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 area.
- Reduce speed and allow greater distances for braking.

## **WARNING**

### Fall and Thrown Object Hazard

- Do not carry passengers in the cargo area.

## **WARNING**

### Fire or Explosion Hazard

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

# MAINTENANCE AND ADJUSTMENT

## PERIODIC MAINTENANCE AND ADJUSTMENT CHARTS

Regular maintenance is required for the best performance and safe operation of your utility vehicle.

Even if the vehicle isn't driven for the stated mileage or engine hours, the month maintenance intervals should still be followed. Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

 **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>Opera-<br>tion | 20 hours<br>100 mi<br>160 km<br>(Every<br>month) | 125 hrs<br>600 mi<br>1000 km<br>(Every 6<br>months) | 250 hrs<br>1200 mi<br>2000 km<br>(Every<br>year) | 500 hrs<br>2500 mi<br>4000 km<br>(Every 2<br>years) | 1000 hrs<br>5000 mi<br>8000 km<br>(Every 4<br>years) | Page |
|--------|------------------------------------------------------------------------|---------------------------------|--------------------------------------------------|-----------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|------|
| PRE-OP | Check engine oil                                                       | CS                              | CS                                               | CS                                                  |                                                  |                                                     |                                                      | 24   |
|        | Check engine air cooling inlet duct                                    | CS                              | CS                                               | CS                                                  | CS                                               | CS                                                  | CS                                                   | 26   |
|        | Check fuel lines for leakage                                           | CS                              | CS                                               | CS                                                  | CS                                               | CS                                                  | CS                                                   | 23   |
|        | Check fuel level                                                       | CS                              | CS                                               | CS                                                  | CS                                               | CS                                                  | CS                                                   | 23   |
|        | Check for loose-ness and corrosion of battery terminals and hold downs | CS                              | CS                                               | CS                                                  | CS                                               | CS                                                  | CS                                                   | 26   |
|        | Check brake pedal free play and adjust if necessary                    | CS                              | CA                                               | CA                                                  | CA                                               | CA                                                  | CA                                                   | 50   |
|        | Check steering operation                                               | CS                              | CS                                               | CS                                                  | CS                                               | CS                                                  | CS                                                   | 27   |

\* 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.

\*\*\* Do no operate vehicle if discrepancy is found.

# MAINTENANCE AND ADJUSTMENT

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>100 mi<br>160 km<br>(Every<br>month) | 125 hrs<br>600 mi<br>1000 km<br>(Every 6<br>months) | 250 hrs<br>1200 mi<br>2000 km<br>(Every<br>year) | 500 hrs<br>2500 mi<br>4000 km<br>(Every 2<br>years) | 1000 hrs<br>5000 mi<br>8000 km<br>(Every 4<br>years) | Page |
|-----------------------|-----------------------------------------------------------------|----------------------------|--------------------------------------------------|-----------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|------|
| <b>PRE-OP</b>         | Check tire pressure, tread depth, tire surface for damage       | CS                         | CA                                               | CA                                                  | CA                                               | CA                                                  | CA                                                   | 26   |
|                       | Check body and chassis for damage                               | CS                         | CS                                               | CS                                                  | CS                                               | CS                                                  | CS                                                   | 28   |
|                       | 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                                                   | 27   |
|                       | Check for the proper operation of pedal control area***         | CS                         | CS                                               | CS                                                  | CS                                               | CS                                                  | CS                                                   | 27   |
| <b>EVERY MONTH</b>    | Check wear of drive belt                                        |                            | CS                                               | CS                                                  | CS                                               | CS                                                  | CS                                                   | 43   |
|                       | Check operation of Forward / Reverse shifting                   |                            | CS                                               | CS                                                  | CS                                               | CS                                                  | CS                                                   | 30   |
|                       | Clean / Lube pedal control area                                 |                            | CL                                               | CL                                                  | CL                                               | CL                                                  | CL                                                   | *    |
| <b>EVERY 6 MONTHS</b> | Check fuel hoses for cracks or damage, and replace if necessary |                            |                                                  | CS R                                                | CS R                                             | CS R                                                | CS R                                                 | *    |
|                       | Wash pre-filter and check air filter element                    |                            |                                                  | S                                                   | S                                                | S                                                   | S                                                    | 42   |
|                       | Check spark plug and plug cap condition** / Check compression   |                            |                                                  | CS                                                  | CS                                               | CS                                                  | CS                                                   | 38   |

\* 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.

\*\*\* Do not operate vehicle if discrepancy is found.

# MAINTENANCE AND ADJUSTMENT

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>100 mi<br>160 km<br>(Every<br>month) | 125 hrs<br>600 mi<br>1000 km<br>(Every 6<br>months) | 250 hrs<br>1200 mi<br>2000 km<br>(Every<br>year) | 500 hrs<br>2500 mi<br>4000 km<br>(Every 2<br>years) | 1000 hrs<br>5000 mi<br>8000 km<br>(Every 4<br>years) | Page |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------|-----------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|------|
| <b>EVERY 6 MONTHS</b> | <ul style="list-style-type: none"> <li>Check brake cable operation</li> <li>Inspect for abrasions and damage, and replace if necessary</li> </ul> |                            |                                                  | CS R                                                | CS R                                             | CS R                                                | CS R                                                 | 49   |
|                       | Check shock absorbers for oil leaks and damaged springs                                                                                           |                            |                                                  | CS                                                  | CS                                               | CS                                                  | CS                                                   | *    |
| <b>EVERY YEAR</b>     | Replace engine oil                                                                                                                                |                            |                                                  |                                                     | R                                                | R                                                   | R                                                    | 39   |
|                       | Adjust throttle cables**                                                                                                                          |                            |                                                  |                                                     | CA                                               | CA                                                  | CA                                                   | *    |
|                       | Check tail pipe screen for obstructions                                                                                                           |                            |                                                  |                                                     | CS                                               | CS                                                  | CS                                                   | *    |
|                       | Lubricate primary sheave and secondary sheave                                                                                                     |                            |                                                  |                                                     | L                                                | L                                                   | L                                                    | *    |
|                       | Check starter V-belt for damage and tension                                                                                                       |                            |                                                  |                                                     | CS                                               | CS                                                  | CS                                                   | *    |
|                       | Check drive belt for slippage, wear or scratches                                                                                                  |                            |                                                  |                                                     | CS                                               | CS                                                  | CS                                                   | 43   |
|                       | Check operation of speed limiter                                                                                                                  |                            |                                                  |                                                     | CS                                               | CS                                                  | CS                                                   | *    |
|                       | Apply battery terminal protectant                                                                                                                 |                            |                                                  |                                                     | S                                                | S                                                   | S                                                    | *    |
|                       | Check wiring connections and insulation                                                                                                           |                            |                                                  |                                                     | CS                                               | CS                                                  | CS                                                   | *    |
|                       | Check rear axle bearing play for roughness or free play                                                                                           |                            |                                                  |                                                     | 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.

\*\*\* Do not operate vehicle if discrepancy is found.

# MAINTENANCE AND ADJUSTMENT

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

|                          | Remarks                                                           | Daily<br>Pre-<br>Opera-<br>tion | 20 hours<br>100 mi<br>160 km<br>(Every<br>month) | 125 hrs<br>600 mi<br>1000 km<br>(Every 6<br>months) | 250 hrs<br>1200 mi<br>2000 km<br>(Every<br>year) | 500 hrs<br>2500 mi<br>4000 km<br>(Every 2<br>years) | 1000 hrs<br>5000 mi<br>8000 km<br>(Every 4<br>years) | Page |
|--------------------------|-------------------------------------------------------------------|---------------------------------|--------------------------------------------------|-----------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|------|
| <b>EVERY<br/>YEAR</b>    | Check steering knuckle bushing free play / Adjust wheel alignment |                                 |                                                  |                                                     | CA                                               | CA                                                  | CA                                                   | *    |
|                          | Check wheel nut tightness, front wheel bearing play               |                                 |                                                  |                                                     | CS                                               | CS                                                  | CS                                                   | *    |
|                          | Check transaxle oil level and inspect for leakage                 |                                 |                                                  |                                                     | CS                                               | CS                                                  | CS                                                   | 48   |
|                          | Adjust parking brake release                                      |                                 |                                                  |                                                     | CA                                               | CA                                                  | CA                                                   | 51   |
|                          | Inspect pedal components***                                       |                                 |                                                  |                                                     | CS                                               | CS                                                  | CS                                                   | *    |
| <b>EVERY 4<br/>YEARS</b> | Check starter generator brushes for wear and commutator for dirt  |                                 |                                                  |                                                     |                                                  |                                                     | CS S                                                 | *    |
|                          | Check tightness of cylinder head / Adjust valves                  |                                 |                                                  |                                                     |                                                  |                                                     | CA                                                   | *    |
|                          | Replace transaxle oil                                             |                                 |                                                  |                                                     |                                                  |                                                     | CS R                                                 | *    |
|                          | Inspect brake shoes and 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.

\*\*\* Do no operate vehicle if discrepancy is found.

## TIP

Some maintenance items need more frequent service if you drive in unusually wet, dusty, sandy, or muddy areas.

# MAINTENANCE AND ADJUSTMENT

## 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.

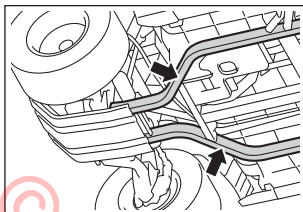
## TROUBLESHOOTING

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

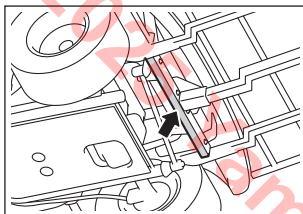
| Cause                                | Remedy                              |
|--------------------------------------|-------------------------------------|
| Fuel System                          |                                     |
| No fuel in tank                      | Fill fuel tank                      |
| 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 AND ADJUSTMENT

Front



Rear



## RECOMMENDED JACKING POINTS

Jack up the vehicle at the indicated jacking points.

## SPARK PLUG INSPECTION

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



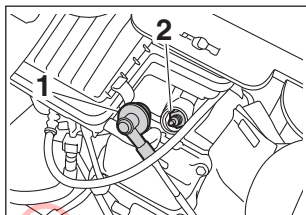
### WARNING

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.

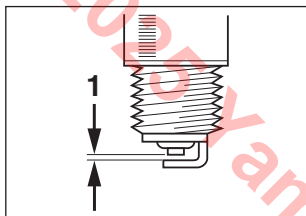
### TIP

To access the spark plug, remove the front seat.

# MAINTENANCE AND ADJUSTMENT



1. Spark plug cap
2. Spark plug



1. Gap

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:

BPR4ES

## Spark plug gap:

0.7-0.8 mm (0.028-0.031 in.)

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

## Spark plug torque:

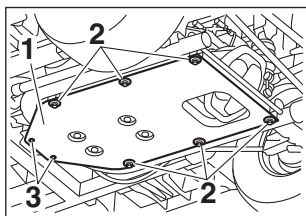
20 N·m (2.0 kgf·m, 15 lb·ft)

7

## ENGINE OIL REPLACEMENT

### TIP

For information on the jacking points, see page 38.



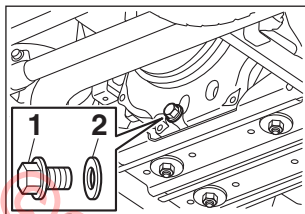
1. Bottom panel
2. Bolt
3. Quick fastener

1. Remove the bottom panel by removing the bolts and quick fasteners.
2. Warm up the engine for several minutes, place the utility vehicle on a level surface, and 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.**

# MAINTENANCE AND ADJUSTMENT



1. Engine oil drain plug
2. Gasket

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

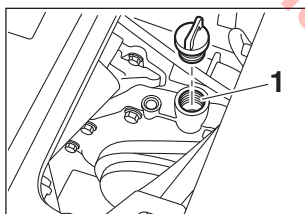
## TIP

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

5. Install the drain plug, along with a new drain plug gasket, and finger tighten before tightening to the following torque:

### Drain plug torque:

27 N·m (2.7 kgf·m, 20 lb·ft)



1. Oil filler hole

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

### Recommended oil brand:

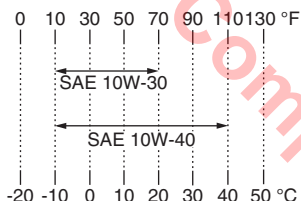


### Available oil grade:

API SE type or higher JASO MA or MB

### Available viscosity index:

10W-30 or 10W-40



### Engine oil capacity:

1.10 L (1.16 US qt)

7. Install the bottom panel by installing the bolts and quick fasteners, and then tighten the bolts to the following torque:

### Bottom panel bolt torque:

7 N·m (0.7 kgf·m, 5.2 lb·ft)

# MAINTENANCE AND ADJUSTMENT

---

## 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.

## WHY YAMALUBE

YAMALUBE oil is a Genuine YAMAHA Part born of the engineers' passion and belief that engine oil is an important liquid engine component. We form teams of specialists in the fields of mechanical engineering, chemistry, electronics and track testing, and have them develop the engine together with the oil it will use. Yamalube oils take full advantage of the base oil's qualities and blend in the ideal balance of additives to make sure the final oil clears our performance standards. Thus, Yamalube mineral, semisynthetic and synthetic oils have their own distinct characters and value. Yamaha's experience gained over many years of research and development into oil since the 1960's helps make Yamalube the best choice for your Yamaha engine.



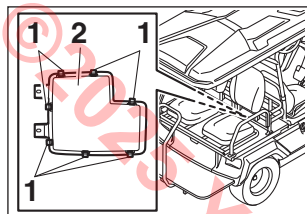
# MAINTENANCE AND ADJUSTMENT

## AIR FILTER

To remove the air filter elements:

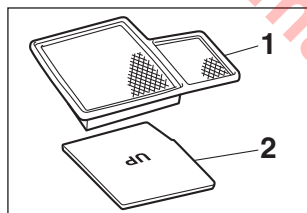
### TIP

To access the air filter case, remove the front seat and lift the rear seating area up.



1. Air filter cover clips
2. Air filter cover

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

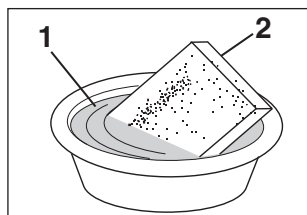


1. Air filter
2. Pre-filter

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

### NOTICE

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



1. Soap and water
2. Pre-filter

Inspection and cleaning:

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

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

### NOTICE

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

# MAINTENANCE AND ADJUSTMENT

5. To install 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.

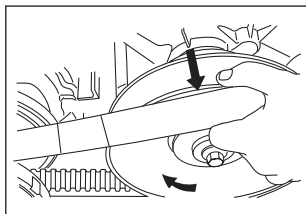
## DRIVE BELT

To remove the drive belt:

### TIP

To access the drive belt, remove the front seat and lift the rear seating area up.

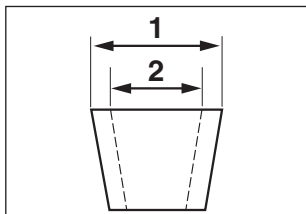
1. Set the drive select lever halfway between forward and reverse.
2. Pull up on the drive belt and push it outward over the edge of the secondary sheave.



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.

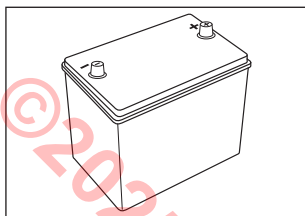


1. New: 31.0 mm (1.22 in.)
2. Replace when belt reaches: 28.0 mm (1.10 in.)

# MAINTENANCE AND ADJUSTMENT

---

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



## 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.**

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

# MAINTENANCE AND ADJUSTMENT

## 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.

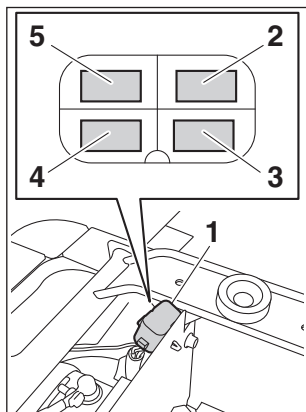
### NOTICE

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

The fuse holder is located under the front seat. The USB fuse is located under the front panel.

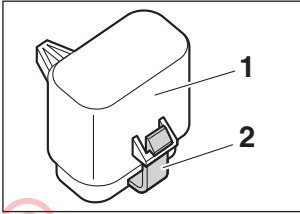
To access the fuse holder

1. Remove the front seat. (See page 19.)
2. Locate the fuse holder on the main wire harness adjacent to the battery.
3. Depress the locking tab of the fuse holder, and then remove the fuse holder cover.



1. Fuse holder cover
2. Main Mini fuse (25A, 32V)
3. Ignition Mini fuse (10A, 32V)
4. Lights Mini fuse (15A, 32V)
5. 12V ACC Mini fuse (10A, 32V) (Optional)

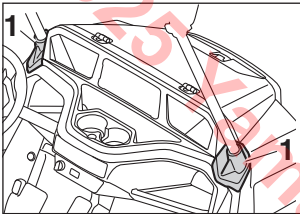
# MAINTENANCE AND ADJUSTMENT



1. Fuse holder cover
2. Locking tab

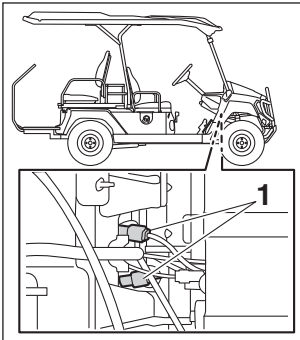
4. Pull the fuse out and inspect it. Replace the fuse if necessary.
5. To install the seat, reverse the above steps.

## To access the USB fuse



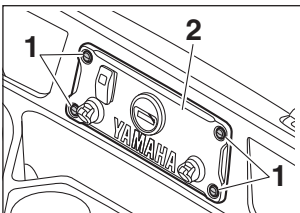
1. Front frame cover

1. Remove the front frame covers.



1. USB coupler

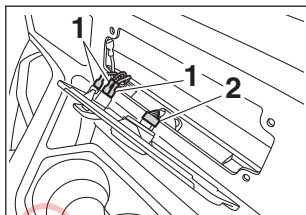
2. Access the USB couplers from underneath the vehicle and disconnect them.



1. Quick fastener
2. Meter panel

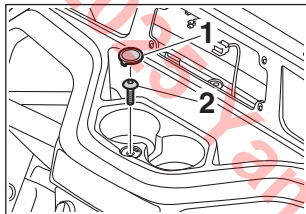
3. Remove the meter panel by removing the quick fasteners.

# MAINTENANCE AND ADJUSTMENT



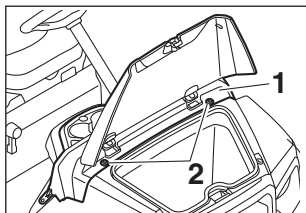
- 1. Light switch lead
- 2. Meter coupler

4. Disconnect the light switch leads and meter coupler.



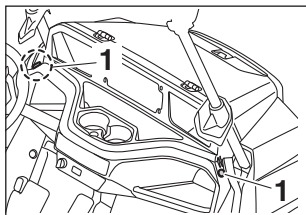
- 1. Ornament
- 2. Bolt

5. Remove the ornament, and then remove the bolt.

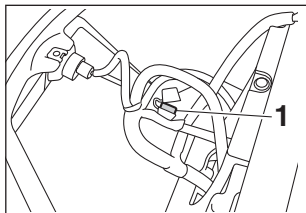


- 1. Front panel
- 2. Bolt

6. Remove the front panel by removing the bolts and quick fasteners.



- 1. Quick fastener



- 1. USB Blade fuse (5A, 32V)

# MAINTENANCE AND ADJUSTMENT

7. Pull the fuse out and inspect it. Replace the fuse if necessary.
8. To install the front panel, reverse the above steps.

## TRANSAXLE OIL

To check transaxle oil level:

### TIP

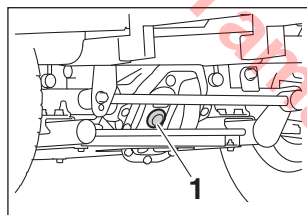
For information on the jacking points, see page 38.

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

### NOTICE

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

4. The oil level should be up to the brim of the transaxle oil level hole.
5. If needed, add gear oil until it starts to flow from the oil level plug hole.



1. Oil level plug

### Recommended oil brand:



### Available viscosity index:

SAE 80W-90 or SAE 90

### Transaxle oil change quantity:

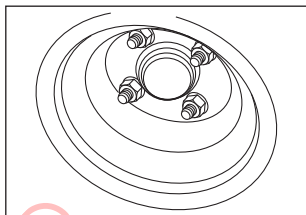
400 cc (400 mL, 0.42 US qt)

6. Allow excess gear oil to flow out of the hole until it stops.
7. Install the oil level plug.

### TIP

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

# MAINTENANCE AND ADJUSTMENT



## WHEEL REPLACEMENT

### **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.

To remove and install a wheel on your utility vehicle:

### **TIP**

For information on the jacking points, see page 38.

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

### **Wheel nut tightening torque:**

100 N·m (10 kgf·m, 74 lb·ft)

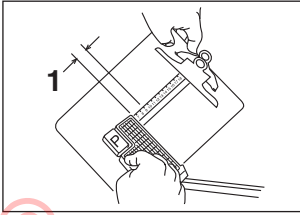
## BRAKE ADJUSTMENT

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 AND ADJUSTMENT



1. Brake pedal free play

## BRAKE PEDAL FREE PLAY ADJUSTMENT

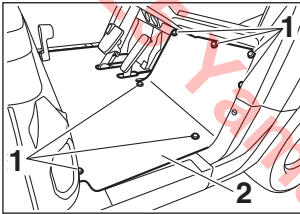
Check the brake pedal free play by pressing against the pedal with two fingers (using light force) and measuring the distance the pedal travels before resistance is felt.

### Brake pedal free play:

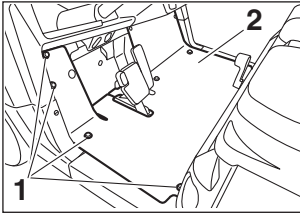
50-55 mm (1.97-2.17 in.)

To adjust the brake pedal free play:

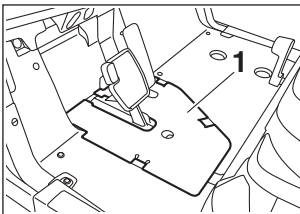
1. Remove the floor mat by removing the quick fasteners.



1. Quick fastener
2. Floor mat



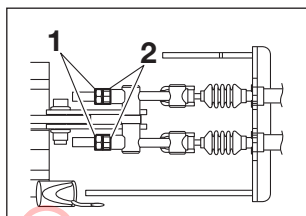
1. Quick fastener
2. Floor mat



1. Service lid

2. Remove the service lid.

# MAINTENANCE AND ADJUSTMENT



1. Locknut
2. Adjusting nut

3. If the free play distance needs adjusting, loosen the locknuts and turn the adjusting nuts in or out until the free play specification is met. Then tighten the locknuts in place.

## WARNING

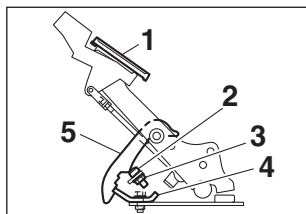
**Do not over-tighten the brake cables. Over-tightening will increase brake wear and affect the overall performance of the vehicle. Premature brake wear can result. Death or serious personal injury can result from failing to comply with the warning labels in this manual.**

4. Install the service lid.
5. Install the floor mat by installing the quick fasteners.

## PARKING BRAKE RELEASE ADJUSTMENT

### NOTICE

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



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

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 counter-clockwise until it contacts the sector.
3. Turn the bolt clockwise 1/3 of a turn (120 degrees), then tighten locknut.

## HEADLIGHTS

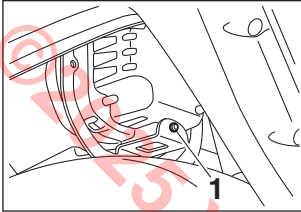
This model is equipped with LED-type headlights. If a headlight does not come on, check the fuses and then have a Yamaha dealer check the vehicle.

# MAINTENANCE AND ADJUSTMENT

## ADJUSTING A HEADLIGHT

### NOTICE

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



1. Adjusting screw

Using a Phillips head screwdriver, turn the adjusting screw. Turning the screw clockwise will lower the beam and turning the screw counterclockwise will raise the beam.

# STORAGE

---

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

## TIP

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

---

## FUEL

### WARNING

Gasoline and its vapors are highly flammable and explosive. To avoid fire or explosions and reduce the risk of injury, follow these instructions.

- 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.
- 

1. 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.
2. 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.

## 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: 137 kPa (1.40 kgf/cm<sup>2</sup>, 20 psi)
  - Rear: 137 kPa (1.40 kgf/cm<sup>2</sup>, 20 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.

## 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).
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.

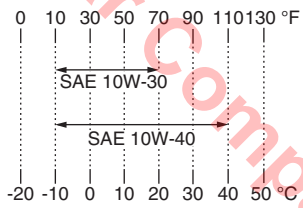
# SPECIFICATIONS

## GENERAL SPECIFICATIONS

| Items                                                          | YUM2A UMAX RALLY 2+2                          |
|----------------------------------------------------------------|-----------------------------------------------|
| <b>Dimensions:</b>                                             |                                               |
| Overall length                                                 | 3415 mm (134.4 in.)                           |
| Overall width                                                  | 1360 mm (53.5 in.)                            |
| Overall height (sun top height)                                | 1960 mm (77.2 in.)                            |
| Height of floor                                                | 385 mm (15.2 in.)                             |
| Wheelbase                                                      | 1965 mm (77.4 in.)                            |
| Tread:                                                         |                                               |
| Front                                                          | 1050 mm (41.3 in.)                            |
| Rear                                                           | 1050 mm (41.3 in.)                            |
| Ground clearance                                               | 150 mm (5.9 in.)                              |
| <b>Weight:</b>                                                 |                                               |
| Curb weight<br>(With Sun top, W/S, Battery,<br>Oil & Gasoline) | 610 kg (1345 lb)                              |
| <b>Performance:</b>                                            |                                               |
| Maximum speed                                                  | 24.1 km/h (15.0 mph)                          |
| Maximum reverse speed                                          | 18.0 km/h (11.2 mph)                          |
| Minimum turning radius                                         | 4.0 m (13.1 ft)                               |
| Hill climbing capacity                                         | 15°                                           |
| Seating capacity                                               | One occupant per seat, four occupants maximum |
| Occupant capacity (front)                                      | 181 kg (400 lb)                               |
| Occupant capacity (rear)                                       | 181 kg (400 lb)                               |
| Maximum cargo area capacity                                    | 113 kg (250 lb)                               |
| Vehicle rated capacity                                         | 454 kg (1000 lb)                              |
| Gross vehicle weight rating                                    | 1064 kg (2345 lb)                             |
| <b>Fuel tank capacity:</b>                                     | 20 L (5.2 US gal)                             |

# SPECIFICATIONS

## ENGINE

| Items                     | YUM2A UMAX RALLY 2+2                                                                                   |
|---------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Description:</b>       |                                                                                                        |
| Engine type               | 4-stroke, Gasoline, 60° incline OHV                                                                    |
| Number of cylinders       | Single                                                                                                 |
| Displacement              | 402 cm <sup>3</sup>                                                                                    |
| Bore × stroke             | 85 × 70.8 mm (3.30 × 2.79 in.)                                                                         |
| Compression ratio         | 8.2:1                                                                                                  |
| Output / Gross            | 10.63 kw (14.25 hp) / 3600 rpm                                                                         |
| Output / Net              | 9.45 kw (12.67 hp) / 3600 rpm                                                                          |
| Cooling system            | Forced air-cooled                                                                                      |
| Starting system           | Electric-Starter/Generator                                                                             |
| Ignition system           | TCI                                                                                                    |
| Spark plug type           | BPR4ES                                                                                                 |
| Spark plug gap            | 0.7–0.8 mm (0.028–0.031 in.)                                                                           |
| Lubrication system        | Splash-style positive oil lubrication                                                                  |
| Recommended oil brand     |                       |
| Available oil grade       | API SE type or higher JASO MA or MB                                                                    |
| Available viscosity index | 10W-30 or 10W-40<br> |
| Engine oil capacity       | 1.10 L (1.16 US qt)                                                                                    |

# SPECIFICATIONS

## TRANSMISSION

| Items                              | YUM2A UMAX RALLY 2+2                                                                                                                                                                                                      |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Transmission:</b>               |                                                                                                                                                                                                                           |
| Type                               | V-belt automatic centrifugal engagement                                                                                                                                                                                   |
| V-belt width and outer line length | 31.0 × 1010 mm (1.22 × 39.76 in.)                                                                                                                                                                                         |
| V-belt wear limit                  | 28.0 mm (1.10 in.)                                                                                                                                                                                                        |
| <b>Governor:</b>                   |                                                                                                                                                                                                                           |
| Type                               | Oil bath flyweight                                                                                                                                                                                                        |
| Differential/reduction gear        | Secondary reduction system helical gear<br>Secondary reduction ratio:<br>Forward 11.48:1; Reverse 15.38:1<br>Differential type bevel gear<br>Lubricant/capacity SAE 80W-90 or SAE 90 gear oil/400 cc (400 mL, 0.42 US qt) |

## BATTERIES

| Items          | YUM2A UMAX RALLY 2+2                                     |
|----------------|----------------------------------------------------------|
| <b>Battery</b> | BCI group 24,<br>RC: minimum 70 min<br>CCA: minimum 440A |

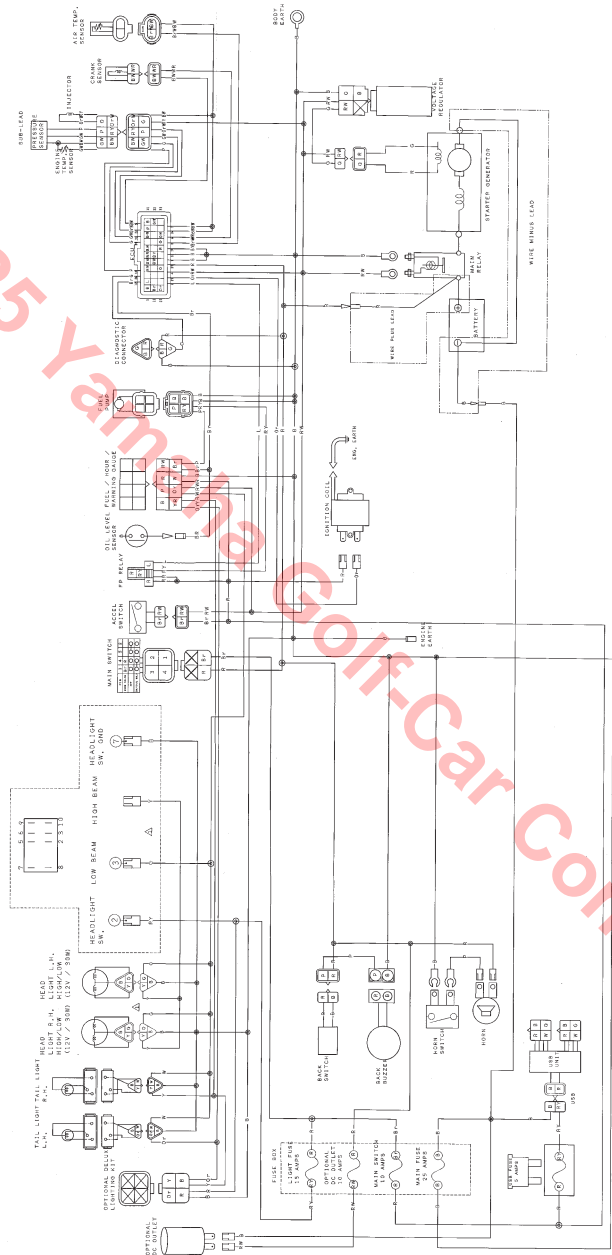
## CHASSIS

| Items                   | YUM2A UMAX RALLY 2+2               |
|-------------------------|------------------------------------|
| <b>Suspension:</b>      |                                    |
| Front                   | Independent (Coil-over strut type) |
| Rear                    | Pivoted trailing arm (mono-link)   |
| <b>Lighting:</b>        |                                    |
| Headlight               | LED                                |
| <b>Steering system:</b> |                                    |
| Type                    | Rack and Pinion                    |
| Steering angle (L.H.)   | 1.85 turn                          |
| Steering angle (R.H.)   | 1.85 turn                          |

# SPECIFICATIONS

| Items                                                                    | YUM2A UMAX RALLY 2+2                                                 |
|--------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>Brakes:</b>                                                           |                                                                      |
| Brake system                                                             | Mechanical drum brake on each wheel with self-adjusters              |
| Type of brake                                                            | Dual internal expanding shoe Leading/trailing shoes (self-adjusting) |
| Brake pedal free play linkage adjustment                                 | 50–55 mm (1.97–2.17 in.)                                             |
| <b>Parking brake:</b>                                                    |                                                                      |
| Type                                                                     | Foot type; parking brake with automatic release.                     |
| <b>Wheel:</b>                                                            |                                                                      |
| Tire size:<br>(Dia. [in]) × (Width [in]) - (Rim size [in]) / Ply rating) |                                                                      |
| Front                                                                    | 23 × 10.50–12 / 4 PR                                                 |
| Rear                                                                     | 23 × 10.50–12 / 4 PR                                                 |
| Rim size:<br>(Dia. [in]) × (Width [in]) (Offset [mm])                    | 12 × 7.0 +25                                                         |
| <b>Tire pressure:</b>                                                    |                                                                      |
| Recommended:                                                             |                                                                      |
| Front                                                                    | 137 kPa (1.40 kgf/cm <sup>2</sup> , 20 psi)                          |
| Rear                                                                     | 137 kPa (1.40 kgf/cm <sup>2</sup> , 20 psi)                          |
| Minimum:                                                                 |                                                                      |
| Front                                                                    | 124 kPa (1.26 kgf/cm <sup>2</sup> , 18 psi)                          |
| Rear                                                                     | 124 kPa (1.26 kgf/cm <sup>2</sup> , 18 psi)                          |

# WIRING DIAGRAM



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**YAMAHA**



PRINTED IN USA  
2023.11-0.3×1 CR  
(E)