



YAMAHA

READ THIS MANUAL CAREFULLY!
It contains important safety information.

U-MAX

OWNER'S/OPERATOR'S MANUAL

G23E

LIT-19626-01-18

JU6-F8199-10

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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.

**TECHNICAL SERVICE DEPT
YAMAHA GOLF-CAR COMPANY**

G23E

OWNER'S/OPERATOR'S MANUAL

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P/N LIT-19626-01-18

IMPORTANT MANUAL INFORMATION

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



The Safety Alert Symbol means ATTENTION! BE ALERT! YOUR SAFETY IS INVOLVED!



WARNING

Failure to follow WARNING instructions could result in severe injury or death to the utility vehicle occupants, a bystander, or a person inspecting or repairing the utility vehicle.

CAUTION:

This message describes special precautions that must be taken to avoid damage to the utility vehicle.

NOTE:

This message provides additional key information.

NOTE:

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



WARNING

Read and understand this manual completely before operating your utility vehicle.

YAMAHA GOLF-CAR COMPANY

UTILITY VEHICLE LIMITED WARRANTY

Yamaha Golf-Car Company hereby warrants that any new Utility Vehicle purchased from an authorized Yamaha dealer in the United States, will be free from defects in material and workmanship for the period of time stated herein, subject to the stated limitations.

THE PERIOD OF WARRANTY for any Utility Vehicle will be one year from date of purchase for parts and labor.

The warranty shall cover the entire vehicle except for batteries, tires and rims, which are warranted by their respective manufacturers.

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

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

- Abnormal strain, neglect, or abuse, including lack of proper maintenance, and use contrary to the Owner's/Operator's Manual instructions.
- Accident or collision damage.
- Installation of parts or accessories that are not original equipment.
- Fading, rust, or deterioration due to exposure or ordinary wear and tear.
- Modification or alteration that affects the Utility Vehicle's condition, operation, performance, or durability.

- Damage due to improper transportation.
- Acts of God (i.e. lightning, hail damage, flooding, fire, etc.)

SPECIFIC EXCLUSIONS from this warranty shall include any parts replaced due to normal wear or routine maintenance, including oil, air filter elements, brake shoes, spark plugs, starter and clutch drive belts, and bed damage such as scratches, dents, or deformation. Any charges incurred in transporting a Utility Vehicle to and from an authorized Yamaha Golf Car Dealer for service or in performing field service is also excluded from this warranty.

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

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

WARRANTY TRANSFER: To transfer any remaining warranty from the original purchaser to any subsequent purchaser, it is imperative that the machine be inspected and registered for warranty by an authorized Yamaha Golf Car Dealer. In order for this warranty to remain in effect, this inspection and registration must take place within ten (10) days after transfer. An inspection and registration fee will be charged for this service.

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

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

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

YAMAHA GOLF-CAR COMPANY

Effective Date: 01/01/04

CONTENTS

1	LOCATION OF THE WARNING AND SPECIFICATION LABELS.....	1-1	Trailer hitch bracket	4-9
2	DESCRIPTION AND VEHICLE IDENTIFICATION	2-1	Transmitter unit	4-10
	Features	2-1		
	Utility vehicle serial number.....	2-2		
	Key identification number	2-2		
3	SAFETY INFORMATION.....	3-1		
4	CONTROL FUNCTIONS	4-1	5	PRE-OPERATION CHECKS
	Main switch.....	4-1		Pre-operation check list
	Drive select switch.....	4-2		Brakes
	Accelerator pedal	4-3		Batteries
	Brake pedal	4-3		Transmission oil
	Parking brake pedal	4-4		Accelerator pedal
	Horn button.....	4-4		Steering.....
	Auxiliary DC jack	4-5		Fittings and fasteners
	Cargo bed.....	4-6		Lights.....
	Tow switch.....	4-9		Switches.....
				Tires
			6	OPERATION
				Starting
				Stopping
				Accessories and loading.....
			7	DRIVING YOUR VEHICLE
				Getting to know your vehicle
				Learning to operate your vehicle

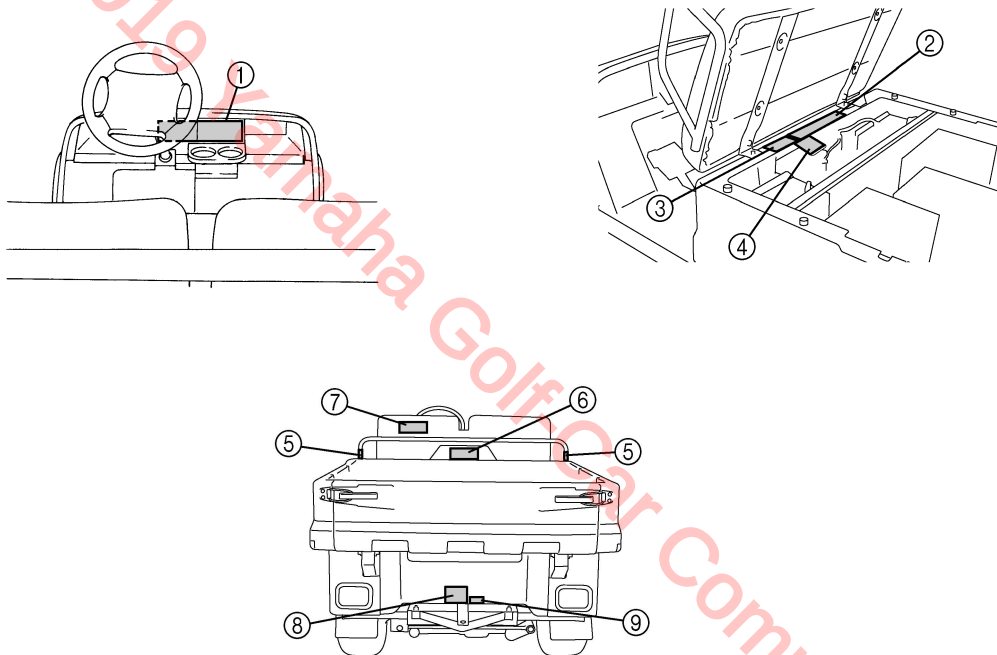
Turning your vehicle.....	7-3
Braking	7-3
Going uphill	7-4
Going downhill.....	7-5
Rough terrain	7-6
Riding in brush or wooded areas....	7-6

8	PERIODIC MAINTENANCE AND ADJUSTMENT	8-1
	Owner's/Operator's Manual	8-1
	Periodic maintenance/ lubrication.....	8-2
	Seat.....	8-3
	Cargo bed	8-3
	Batteries	8-5
	Battery care.....	8-5
	Battery charging.....	8-7
	Battery installation.....	8-9
	Fuse replacement	8-11
	Transmission oil	8-12
	Wheel removal	8-13
	Wheel installation.....	8-14
	Brake adjustment.....	8-15

Brake pedal free play adjustment.....	8-15
Replacing a headlight bulb	8-17
Adjusting a headlight beam	8-18
Replacing a taillight bulb	8-19

9	CLEANING AND STORAGE	9-1
	Chassis preparation	9-1
	Battery storage care	9-1
10	SPECIFICATIONS	10-1
11	MAINTENANCE RECORD	11-1

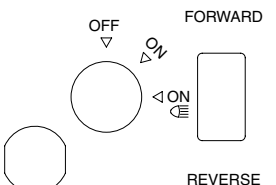
LOCATION OF THE WARNING AND SPECIFICATION LABELS



Read and understand all of the labels on your vehicle. They contain important information for safe and proper operation of your vehicle.

Never remove any labels from your vehicle. If a label becomes difficult to read or comes off, a replacement label is available from your Yamaha dealer.

①

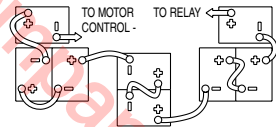
 YAMAHA JUE-K7761-00	▲ WARNING Improper use can result in SEVERE INJURY or DEATH - Vehicle capacity: 1 operator and 1 passenger. - Remain seated and hold on while in motion. - This vehicle is recommended only for operators 16 and older with a valid motor vehicle license. Adults must supervise use by minors. Check state laws for minimum age requirements. - Drive slowly in turns. - Drive straight up and down hills-driving across the side of a hill increases the risk of overturn. - Keep entire body inside vehicle. - Passenger and cargo can affect vehicle handling. - Vehicle rated capacity (driver, passenger, cargo, trailer, and load) 1300lb. (590kg) on level surface. LOCATE AND READ OWNER'S MANUAL. FOLLOW ALL INSTRUCTIONS AND WARNINGS. 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.
--	---

②

▲ WARNING/AVERTISSEMENT			
EXPLOSIVE GASES are released when batteries are charged or discharged. Keep well ventilated. Keep sparks, flames and cigarettes away. Shield eyes when working near batteries. LES GAZ EXPLOSIFS se dégagent lors de la charge ou de la décharge des batteries. Garder bien ventilé. Éviter étincelles, flammes et cigarettes. Se protéger les yeux lorsqu'on travaille près des batteries.	SULFURIC ACID in batteries will burn skin, eyes, and clothing. Do not tilt batteries. Keep vent caps tight and level. In event of injury, flush with water and call physician immediately. L'ACIDE SULFURIQUE des les batteries brûle la peau, les yeux et les vêtements. Ne pas incliner les batteries. Garder les bouchons serrés et horizontaux. En cas de contact avec l'acide, rincer avec l'eau et appeler le médecin immédiatement.	ELECTRICAL SHORTS can result in burns. Do not make connection between positive and negative terminals. LES COURTS-CIRCUITS ÉLECTRIQUES peuvent causer des brûlures. Ne pas faire de connexion positive et négative entre les bornes de la batterie.	

③

BATTERY INSTALLATION AND WIRE LEAD CONNECTION



YAMAHA
JUE-K7765-00

④

⚠ CAUTION/AVERTISSEMENT

Move switch to the "TOW" position before towing or storage. Failure to do so may lead to:

- Drive system damage or electrical fire when towing.
- Complete battery discharge and battery damage when storing long term.

NOTE: After moving switch from "RUN" to "TOW", wait 15 seconds minimum before switching again.

Mettre l'interrupteur à position "TOW" avant de remorquer ou avant l'entreposage. Non-observation pourrait

- endommager le système d'actionnement ou causer un incendie électrique pendant le remorquage.
- causer une décharge totale de la batterie et endommager la batterie pendant l'entreposage à long terme.

NOTE: Après avoir changé l'interrupteur de position "RUN" à position "TOW", attendre un minimum de 15 secondes avant de le remettre

TOW

RUN

YAMAHA

JUS-K208-10

⑤

⚠ WARNING

- Keep hands, body, other persons away when closing bed.
- Do not operate the vehicle with bed up.

YAMAHA

SUG-K7764-00

⑥

⚠ WARNING

Severe INJURY or DEATH can result if you ignore the following:

- Maximum Load in Cargo Bed: 800lb (363kg).
 - Never carry passengers or fill fuel containers in cargo bed.
 - Cargo can affect handling and stability. Read Owner's Manual before loading or towing.
 - When loading with cargo or towing a trailer: Reduce speed and allow more room to stop. Avoid hills and rough terrain.
 - Be sure cargo is secured - a loose load could change handling unexpectedly.
 - Keep weight in the cargo bed centered, and as low and far forward as possible.
- Top-heavy loads increase the risk of overturn.

YAMAHA

JUS-K7766-01

⑦

⚠ WARNING

- Do not fill portable fuel container (gas can) in cargo bed. Static electricity sparks can ignite fuel vapor causing fire or explosion.
- 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 refueling. Tighten cap before putting fuel container in cargo bed.

YAMAHA

JUT-K7787-00

⑧

⚠ WARNING

Improperly loading a trailer and failure to use extra care when pulling trailer can cause an accident or injury. Never load more than 150 lbs (68kg) tongue weight on the towing bracket.

Do not tow more than 1000 lbs (454kg) rolling weight (trailer plus cargo).

Allow for increased braking distance and use extreme caution when operating on inclines.

Read carefully the loading information and trailer hitch sections in the owner's manual.

YAMAHA

JLJ5-K7768-00

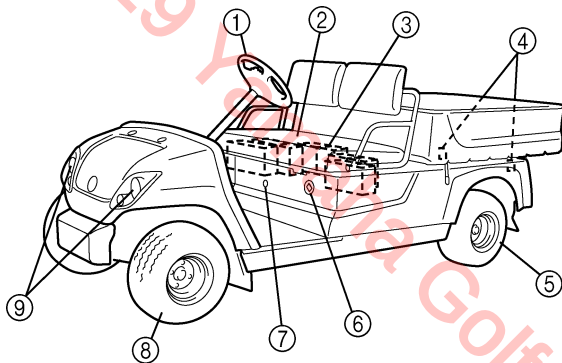
⑨

CAUTION**JACK UNDER AXLE**

JJ3-K7765-00

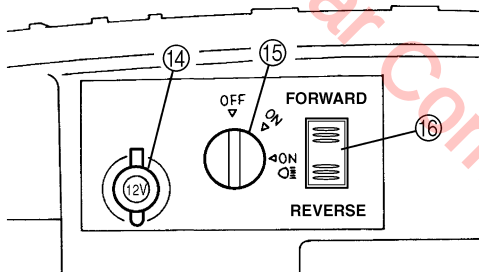
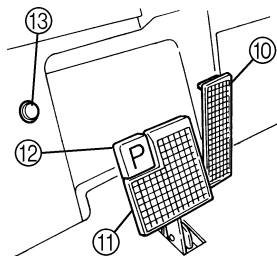
DESCRIPTION AND VEHICLE IDENTIFICATION

2



FEATURES

1. Steering wheel
2. Seat
3. Batteries
4. Taillight
5. Rear tire
6. Receptacle
7. Transmitter unit
8. Front tire
9. Headlight
10. Accelerator pedal
11. Brake pedal
12. Parking brake pedal
13. Horn button
14. Auxiliary DC jack
15. Main switch
16. Drive select switch

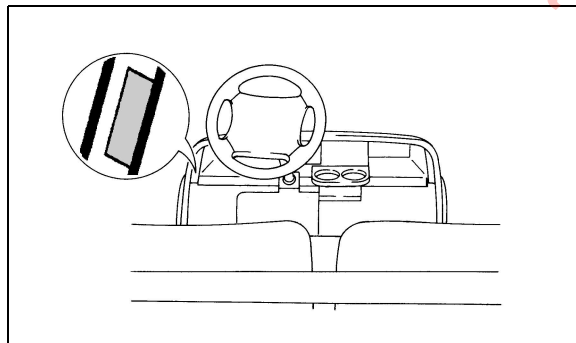


Utility vehicle serial number

The utility vehicle serial number is affixed in the location shown.

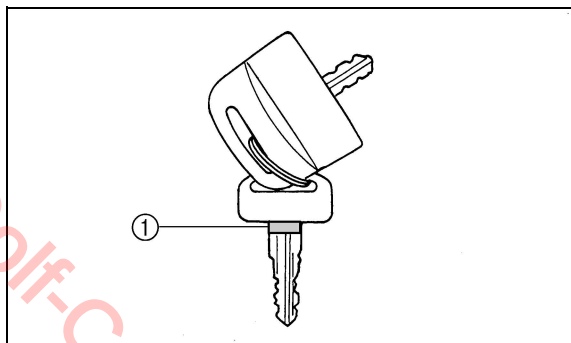
NOTE: _____

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.



Key identification number

The key identification number is stamped on the key as shown in the following illustration. This number can be used for ordering a new key.



1. Key identification number



SAFETY INFORMATION

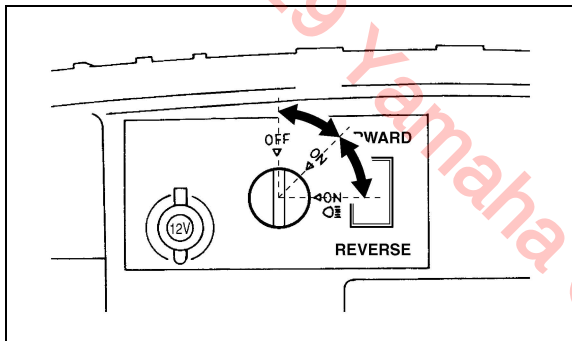
SEVERE INJURY OR DEATH can result if you do not follow these instructions:

- Read this manual and all labels carefully and follow the operating procedures described.
- This vehicle is designed to carry the driver and one passenger. Never carry passengers in the cargo bed.
- 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. The passenger must hold on to the grab rail at all times while the vehicle is in motion.
- Never operate this vehicle on any public street, road, or highway, even a dirt or gravel one.
- Never consume alcohol or drugs before or while operating this vehicle.
- Never operate at speeds too fast for your skills or the conditions. Always go at a speed that is proper for the terrain, visibility, and operating conditions, and your experience.
- Never attempt jumps or other stunts.
- Always inspect your vehicle each time you use it to be sure it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this manual.
- Always keep both hands, arms, feet, and legs inside the vehicle at all times during operation. Keep your feet on the floorboard.
- Always keep both hands on the steering wheel when driving.

- Always 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 rough, slippery, or loose terrain.
- Never turn at excessive speed. Do not attempt turns on steep slopes.
- Never operate the vehicle on slopes that are too steep for it or for your abilities. Go straight up and down slopes.
- 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.
- Always be sure there are no obstacles or people behind you when you operate in reverse. When it is safe to proceed in reverse, go slowly. Do not brake abruptly when carrying loads in the cargo bed.
- Always use the size and type of tires specified in this manual.
- Always maintain proper tire pressure as described in this manual.
- Never exceed the stated load capacity. Cargo should be as far forward in the bed as possible, and distributed evenly from side to side. Be sure cargo is secured so that it cannot move around during operation. Reduce speed and follow instructions in this manual for carrying cargo or pulling a trailer. Allow greater distance for braking.

CONTROL FUNCTIONS

Main switch



The main switch positions are as follows:

OFF:

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

ON:

All electrical circuits (except for the headlights and taillights) are switched on.

The utility vehicle can be operated.

ON :

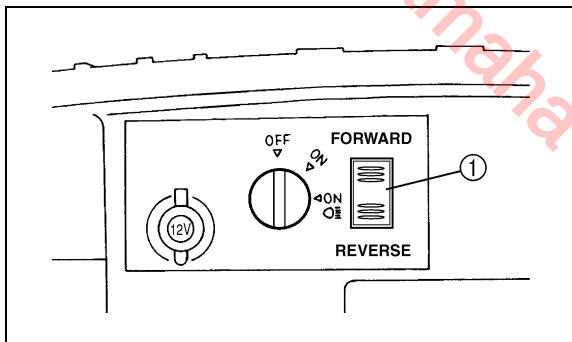
All electrical circuits are switched on.

The headlights and taillights come on.

The utility vehicle can be operated.

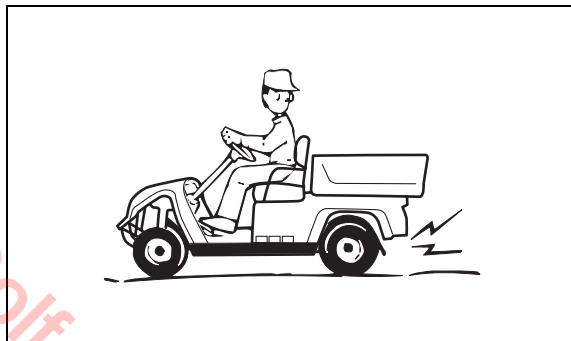
Drive select switch

The drive select switch is used for driving the utility vehicle either forward or in reverse. After coming to a complete stop, push the “FORWARD” or “REVERSE” side of the switch.



1. Drive select switch

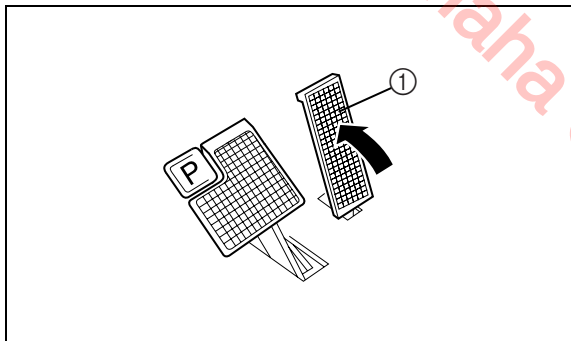
NOTE: _____
The back-up buzzer will sound when the drive select switch is set to “REVERSE.”



Accelerator pedal

The accelerator pedal controls the utility vehicle's speed.

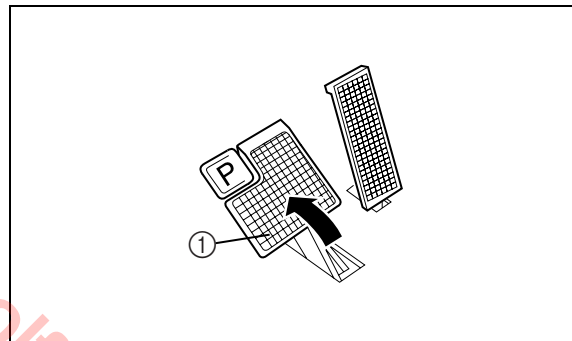
Action	Vehicle speed
Depress pedal	Increase
Release pedal	Decrease



1. Accelerator pedal

Brake pedal

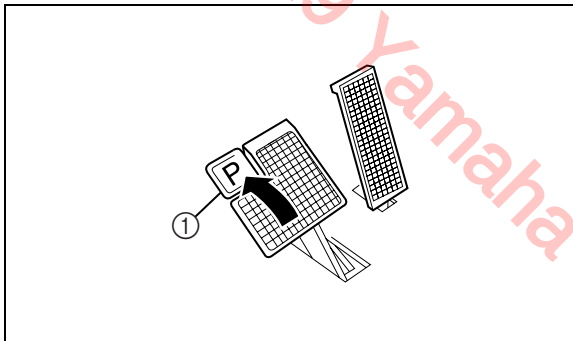
Press the brake pedal down to slow or stop the utility vehicle.



1. Brake pedal

Parking brake pedal

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



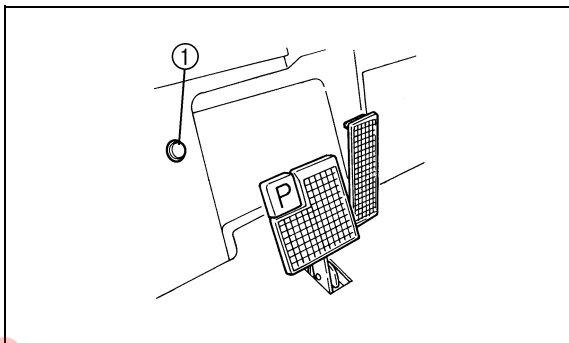
1. Parking brake pedal

NOTE:

Release the parking brake by depressing the accelerator pedal.

Horn button

Step on the horn button to sound the horn.



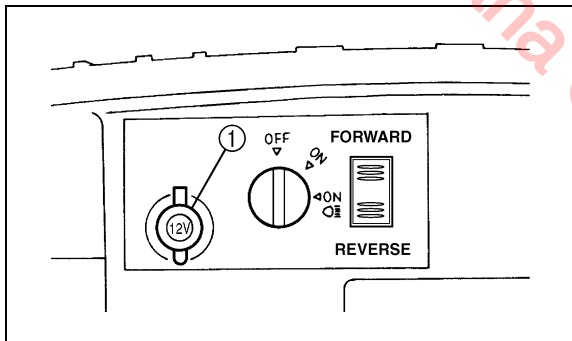
1. Horn button

Auxiliary DC jack

The auxiliary DC jack is located in the front panel.

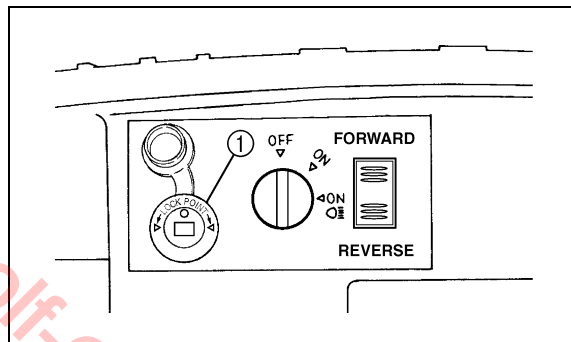
The auxiliary DC jack can be used for accessories such as lights, radios, etc.

The auxiliary DC jack should only be used for short periods if the utility vehicle is not being operated.



1. Auxiliary DC jack cap

1. Set the main switch to "ON".
2. Open the auxiliary DC jack cap, and then insert the accessory power plug into the jack.



1. Auxiliary DC jack

Maximum rated capacity for the auxiliary DC jack:

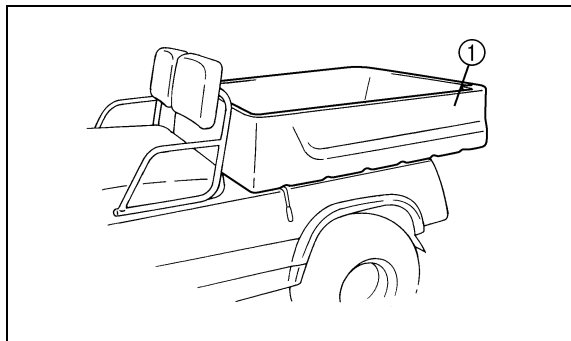
DC 12 V, 120 W (10 A)

3. Close the auxiliary DC jack cap if the jack is not being used.

CAUTION:

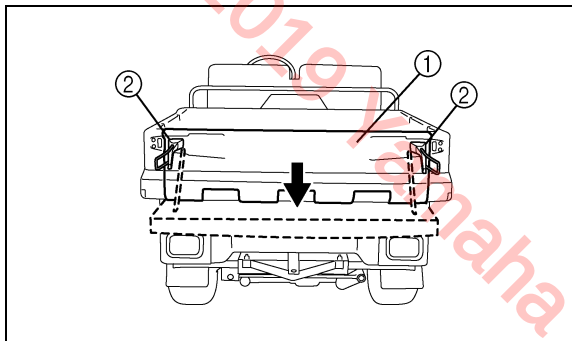
- Do not use accessories requiring more than the maximum rated capacity for the auxiliary DC jack. This may overload the circuit and cause the fuse to blow.
- If accessories are used for extended periods when the utility vehicle is not being operated or with the main switch set to “ON ”, the battery will lose its charge.
- Do not use an automotive cigarette lighter or other accessories with a plug that gets hot because the jack can be damaged.

Cargo bed



1. Cargo bed

Opening and closing the tailgate



1. Tailgate

2. Latch (× 2)

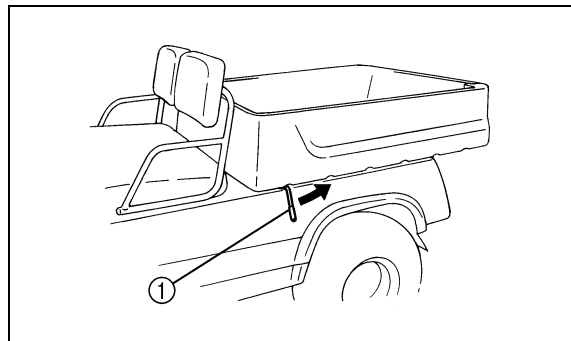
To open:

Unhook the latches, and then lower the tailgate.

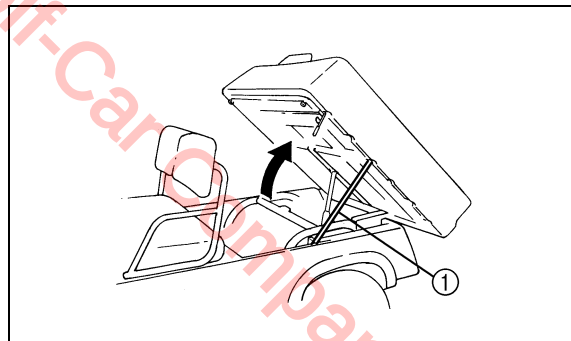
To close:

Place the tailgate in its original position, and then hook the latches.

Lifting and lowering the cargo bed



1. Cargo bed release lever



1. Prop rod

To lift:

Pull the cargo bed release lever towards the rear, and then slowly lift up the cargo bed until end of the prop rod hooks onto the prop rod guide to support the cargo bed.

To lower:

Slightly lift up the cargo bed, unhook the end of the prop rod, and then lower the cargo bed slowly to its original position. Make sure that the latch for the cargo bed is properly engaged.

Maximum load limit: 363 kg (800 lb)
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CAUTION:

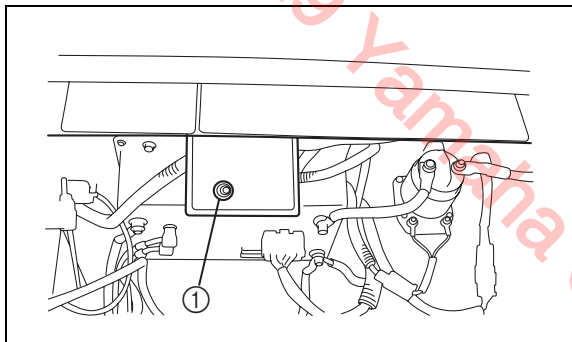
Do not lift the cargo bed by the release lever. Damage to the lever may occur.

⚠ WARNING

- **Apply the parking brake and remove the key from the main switch before lifting the cargo bed. Otherwise, the utility vehicle could move unexpectedly.**
- **Never operate the utility vehicle with the cargo bed in the up position. Injury could occur if the cargo bed falls accidentally.**
- **Before closing the cargo bed, be sure others are standing away from the utility vehicle and that no one is sitting on the seat. Keep hands and fingers away from the space between the cargo bed and seat backs.**

Tow switch

Before operating the vehicle, make sure the tow switch is in the “RUN” position.



1. Tow switch

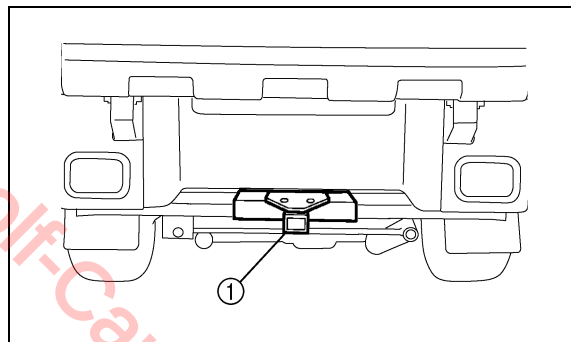
NOTE:

Anytime the tow switch is moved from the “RUN” position to the “TOW” position and immediately moved back to “RUN”, there is a delay of approximately 30 seconds before the car will run.

Make sure the tow switch is in the “TOW” position if towing this vehicle.

Trailer hitch bracket

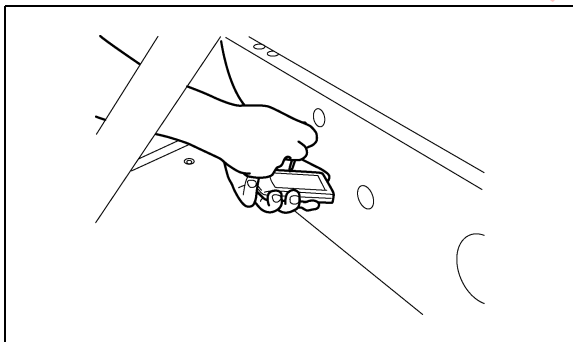
This vehicle is equipped with a 5 cm (2 in) receiver bracket for a standard trailer hitch. Trailer towing equipment can be obtained at a Yamaha dealer. (See page 6-4 for precaution information.)



1. Trailer hitch bracket

Transmitter unit

The transmitter unit allows you to monitor, diagnose, and program features in the motor control unit (MCU) by way of a personal digital assistant (PDA). The unit allows information from the MCU of a utility vehicle to be transferred by way of infrared technology to and from the PDA. Please refer to the G23A/E Service Manual for operation details and instructions.



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

Be sure the main switch key is removed before performing the pre-operation checks to prevent accidental starting, and apply the parking brake to keep the car from moving.

Pre-operation check list

Before using this vehicle, check the following points:

ITEM	ROUTINE	PAGE
Batteries	• Check battery condition. • Charge batteries.	5-3, 8-5–8-10
Brakes	• Check for proper operation, condition and free play.	5-3, 8-15–8-17
Parking brake	• Check for proper operation, condition and free play.	5-3, 8-15–8-17
Transmission oil	• Check for leakage.	5-4, 8-12–8-13
Accelerator pedal	• Check for proper accelerator pedal operation.	5-4
Steering	• Check for proper operation.	5-5
Fittings and fasteners	• Check all fittings and fasteners.	5-5
Lights and switches	• Check for proper operation.	5-5, 8-17–8-19
Wheels and tires	• Check tire pressure, wear and damage.	5-5–5-7, 8-13–8-14

Brakes

Brake pedal

Check for correct brake pedal free play. If the brake pedal free play is incorrect, have a Yamaha dealer adjust it. (See pages 8-15–8-17.)

Check the operation of the brake pedal. It should move smoothly and there should be a firm feeling when the brakes are applied. If not, have the vehicle inspected by a Yamaha dealer.

Brake operation

Test the brakes at slow speed after starting out to make sure they are working properly. If the brakes do not provide proper braking performance, inspect the brake system. (See pages 8-15–8-17.)

Batteries

Charge batteries before each use. (See page 8-5–8-10.)

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

Transmission oil

Make sure the transmission oil is at the specified level. Add oil if necessary. (See pages 8-12–8-13 for details.)

Recommended oil:
SAE 90 gear oil

Accelerator pedal

Remove the key from the main switch. Make sure that the accelerator pedal operates properly. It must operate smoothly and fully spring back when released. If the accelerator pedal does not operate properly, have a Yamaha dealer check the pedal.



WARNING

POTENTIAL HAZARD

Checking operation of the accelerator pedal with the key in the main switch.

WHAT CAN HAPPEN

The engine can start and the vehicle can start moving when the accelerator pedal is depressed.

HOW TO AVOID THE HAZARD

Remove the key from the main switch before checking accelerator pedal operation.

Steering

Park on level ground. Turn the steering wheel to the right and left. Check for excessive free play, abnormal noises, or a rough feeling. If the steering does not operate properly, have a Yamaha dealer check the steering.

Fittings and fasteners

Always check the tightness of chassis fittings and fasteners before a ride. Take the utility vehicle to a Yamaha dealer or refer to the Service Manual for the correct tightening torques.

Lights

Check the headlights and taillights to make sure they are working properly. Replace or have a Yamaha dealer replace if necessary.

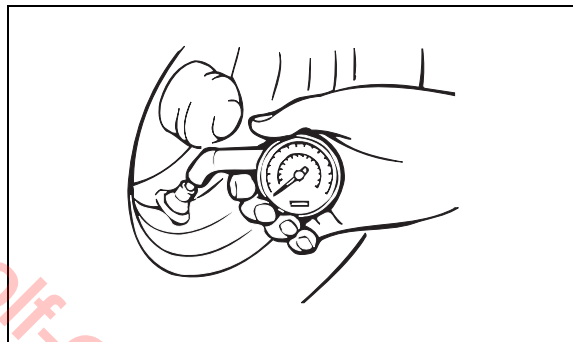
Switches

Check the operation of all switches. If the switches do not operate properly, have a Yamaha dealer repair the switches.

Tires

Checking the tire pressure

Use a tire pressure gauge to measure the tire pressure.



NOTE:

Measure the tire pressure twice and use the second reading. Dust or dirt in the gauge could cause the first reading to be incorrect.



WARNING

POTENTIAL HAZARD

Operating this vehicle with improper tires, or with improper or uneven tire pressure.

WHAT CAN HAPPEN

Use of improper tires on this vehicle, or operation of this vehicle with improper or uneven tire pressure, may cause loss of control, increasing your risk of accident.

HOW TO AVOID THE HAZARD

1. The tires listed below have been approved by Yamaha Motor Manufacturing Corporation of America for this model. Other tire combinations are not recommended. Use the same brand of tires on all four wheels.

	Manufacturer	Size
Front	Kenda or Maxxis	18 × 8.5-8 / 4 PLY
Rear	Kenda or Maxxis	18 × 8.5-8 / 6 PLY

2. The tires should be set to the recommended pressure:

- Recommended tire pressure

Front 150 kPa (1.53 kgf/cm², 21 psi)

Rear 207 kPa (2.11 kgf/cm², 30 psi)

Check and adjust tire pressures when the tires are cold.

Tire pressures must be equal on both sides.

3. Use no more than the following pressures when seating the tire beads.

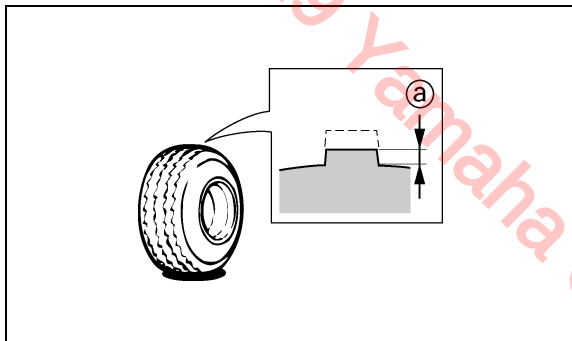
Front 250 kPa (2.5 kgf/cm², 36 psi)

Rear 250 kPa (2.5 kgf/cm², 36 psi)

Higher pressures may cause the tire to burst. Inflate the tires very slowly and carefully. Fast inflation could cause the tire to burst.

Tire wear limit

When the tire groove decreases to 1 mm (0.04 in) due to wear, replace the tire.

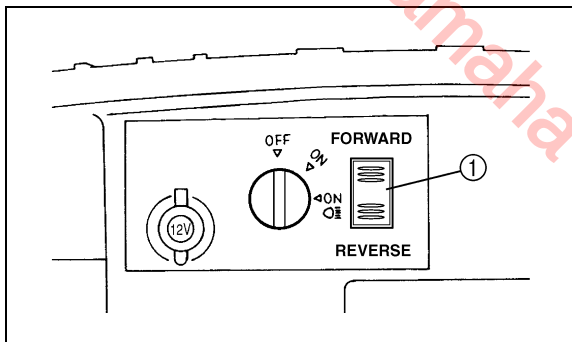


a. Tire wear limit

OPERATION

Starting

1. With the parking brake applied, push the “FORWARD” or “REVERSE” side of the drive select switch.

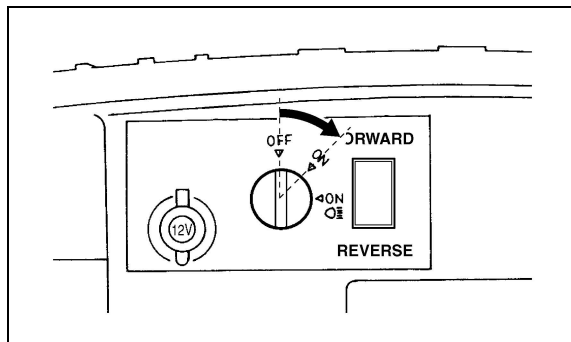


1. Drive select switch

CAUTION:

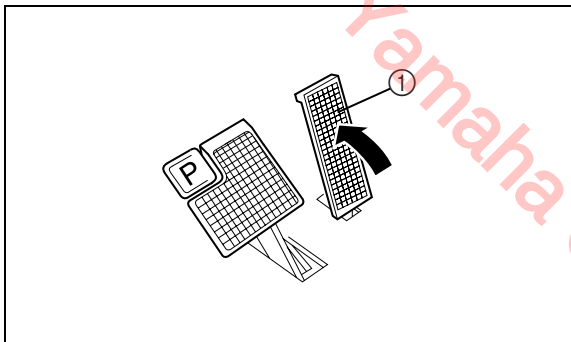
Do not shift from forward to reverse while the utility vehicle is moving.

2. Turn the main switch to “ON” or “ON ”.



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

The utility vehicle will start to move.



1. Accelerator pedal

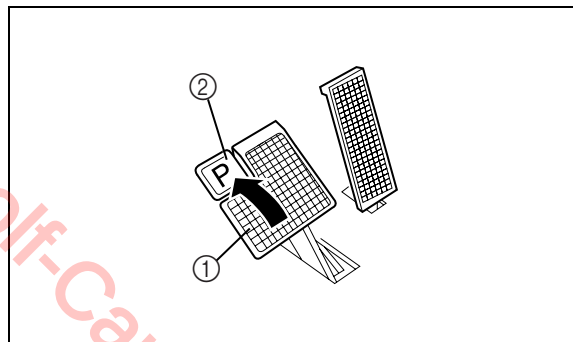
NOTE:

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

Stopping

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

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



1. Brake pedal

2. Parking brake pedal

CAUTION:

Do not hold the utility vehicle on an incline with the accelerator – use the brake.

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 vehicle which has accessories.

- Choose only accessories designed for your 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 vehicle.
- Do not mount an accessory where it could interfere with your ability to control the vehicle. Examples include (but are not limited to) an object that limits your ability to turn the steering wheel, one that limits your view, or one that adversely affects the stability of the vehicle.
- Use extra caution when driving a vehicle with accessories. The vehicle may handle differently than it does without accessories.



WARNING

POTENTIAL HAZARD

Operating this vehicle with improper modifications.

WHAT CAN HAPPEN

Improper installation of accessories or modification of this vehicle may cause changes in handling which in some situations could lead to an accident.

HOW TO AVOID THE HAZARD

Never modify this vehicle through improper installation or use of accessories. All parts and accessories added to this vehicle should be genuine Yamaha or equivalent components designed for use on this vehicle and should be installed and used according to instructions. If you have questions, consult an authorized Yamaha Golf Car Dealer.

Loading

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

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

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

MAXIMUM LOADING LIMIT

- Maximum cargo bed load:
363 kg (800 lb)
- Tow hitch
Tow weight (Including driver, passenger, vehicle cargo and trailer and trailer cargo):
590 kg (1300 lb)
Tongue weight: 68 kg (150 lb)

- Do not exceed the maximum tongue weight. You can measure tongue weight with a bathroom scale. Put the tongue of the loaded trailer on the scale with the tongue at hitch height. Adjust the load in the trailer, if necessary, to reduce the weight on hitch. If you are carrying cargo and towing a trailer, include the tongue weight in the maximum vehicle load limit.
- Load cargo in the cargo bed as close to the center of the vehicle as possible.
- Tie down cargo securely in the trailer. Make sure cargo in the trailer cannot move around. A shifting load can cause an accident.
- Make sure the load does not interfere with controls or your ability to see where you are going.
- Drive more slowly than you would without a load. The more weight you carry, the slower you should go.
- Allow more braking distance. A heavier vehicle takes longer to stop.
- Avoid making sharp turns unless at very slow speeds.
- Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and handling of the vehicle.



WARNING

POTENTIAL HAZARD

Overloading this vehicle or carrying or towing cargo improperly.

WHAT CAN HAPPEN

Could cause changes in vehicle handling which could lead to an accident.

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this vehicle.

Cargo should be properly distributed and securely attached.

Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.

DRIVING YOUR VEHICLE

GETTING TO KNOW YOUR VEHICLE

This off-highway utility vehicle will handle and maneuver differently from an ordinary passenger car or other vehicle.

Before you begin to use your vehicle, be sure you have read this Owner's/Operator's Manual completely and understand the operation of the controls. Pay particular attention to the safety information on pages 3-1–3-2. Please also read all caution and warning labels on your vehicle.

This vehicle is designed for the operator and one passenger. Never carry passengers in the cargo bed.



WARNING

POTENTIAL HAZARD

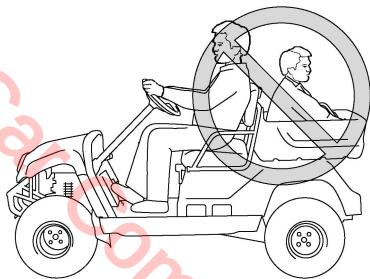
Carrying a passenger in the cargo bed.

WHAT CAN HAPPEN

The passenger could fall or be struck by objects in the cargo bed.

HOW TO AVOID THE HAZARD

Never carry a passenger in the cargo bed. The cargo bed is designed to carry cargo only.



Carrying a passenger and cargo can affect vehicle handling.

The total weight of operator, passenger, accessories, cargo, trailer tongue weight, and the trailer must not exceed the maximum load limit.

Maximum load limit:
590 kg (1300 lb)

WARNING

POTENTIAL HAZARD

Overloading this vehicle or carrying or towing cargo improperly.

WHAT CAN HAPPEN

Could cause changes in vehicle handling which could lead to an accident.

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this vehicle.

Cargo should be properly distributed and securely attached.

Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.

Remain seated and hold on when the vehicle is in motion. Keep hands and feet inside the vehicle at all times.

LEARNING TO OPERATE YOUR VEHICLE

You should become familiar with the performance characteristics of the vehicle in a large, flat area that is free of obstacles and other vehicles. Practice control of the accelerator, brakes, steering, and forward/reverse select switch. Drive first at slow speed and become comfortable at that speed before gradually increasing your speed. Take the time to learn basic operation before attempting more difficult maneuvers.

Set the parking brake. Perform the Pre-Operation Checks on pages 5-2. To start the motor, press the accelerator pedal slowly and smoothly. The motor will operate and you will start to accelerate. Avoid higher speeds until you are thoroughly familiar with the operation of your vehicle.

When slowing down or stopping, take your foot off the accelerator pedal and smoothly press the brake pedal. Improper use of the brakes can cause the tires to lose traction, reducing control and increasing the possibility of an accident. The motor stops operating when the vehicle stops.

TURNING YOUR VEHICLE

It is possible for the vehicle to roll over or go out of control if you attempt sharp, higher speed turns. You should also be careful making sharp turns on rough terrain. Do not attempt to turn around or make abrupt maneuvers on slopes.

BRAKING

Braking ability is affected by the type of terrain. In most cases, gradual application of the brakes is more effective than abrupt braking, particularly on loose surfaces like gravel. Always allow for greater braking distance on rough, loose, or slippery surfaces.

GOING UPHILL

Do not attempt to climb slopes until you have mastered basic maneuvers on flat ground. Use proper driving techniques to avoid over-turns on hills and slopes. Drive straight up slopes, and avoid crossing the side of a slope, which increases your chance of rollover. Practice first on gentle inclines before attempting slopes. Always check the terrain carefully before attempting any slope. Use common sense and remember that some slopes are too steep for you to climb. Choose carefully which slopes you attempt to drive on. Avoid slopes with slippery surfaces or ones where you will not be able to see far enough ahead of you.



WARNING

POTENTIAL HAZARD

Operating on steep slopes.

WHAT CAN HAPPEN

The utility vehicle can overturn more easily on steep slopes than on level surfaces or gentle inclines.

HOW TO AVOID THE HAZARD

Never operate your vehicle on slopes too steep for it or your abilities.

Do not drive across the face of a slope.

Go straight up the slope.

Practice on smaller slopes before attempting large slopes.

Slow down when you reach the crest of the hill if you cannot clearly see what is on the other side - there could be another person, an obstacle, or a sharp drop off.

If you start to lose traction or momentum when going up a slope, and you decide you will be unable to continue, use the brakes to come to a stop. Do not attempt to turn the vehicle around. Instead, back down the hill as slowly as possible, gently applying the brakes when necessary.

GOING DOWNHILL

Check the terrain carefully before going down a slope. When possible, choose a path that lets you drive your vehicle straight downhill. Carefully choose your path and drive no faster than you will be able to react to obstacles that may appear. If you must turn to avoid an obstacle, do not turn at a sharp angle that could allow the vehicle to pitch or roll over.



WARNING

POTENTIAL HAZARD

Going down a slope improperly.

WHAT CAN HAPPEN

Could cause loss of control or cause the vehicle to overturn.

HOW TO AVOID THE HAZARD

Always check the terrain carefully before you start down any slope. Never go down a slope at high speed. Avoid going down a slope at an angle that would cause the vehicle to lean sharply to one side. Go straight down the slope where possible.

Go as slowly as possible. If you are starting to go too fast, apply the brakes gently. Avoid sudden application of the brakes, which could cause the vehicle to start sliding.

If you start to slide or skid, try to steer in the direction the vehicle is sliding to help you regain control.

If you must turn on the slope to avoid an obstacle, do so slowly and carefully. If the vehicle starts to tip, gradually steer in the downhill direction if there are no obstacles in your path. As you regain proper balance, gradually steer again in the direction you want to go.

ROUGH TERRAIN

Avoid operating over rough terrain. Look for obstacles that could cause damage to the vehicle or could lead to a rollover or accident. Avoid jumping the vehicle as injury, loss of control, and damage to the vehicle could occur.



WARNING

POTENTIAL HAZARD

Operating in rough terrain.

WHAT CAN HAPPEN

The vehicle can overturn or go out of control.

HOW TO AVOID THE HAZARD

Always be alert to changing terrain. Go slowly and be extra careful on unfamiliar terrain, so you will have enough time to react to hidden rocks, bumps, or holes in your path.

RIDING IN BRUSH OR WOODED AREAS

When operating in areas with brush or trees, watch carefully on both sides and above the vehicle for obstacles such as branches that the vehicle might hit, causing an accident, or for brush that might enter the vehicle as you pass and strike the driver or passenger.

PERIODIC MAINTENANCE AND ADJUSTMENT

Periodic inspection, adjustment and lubrication will keep your vehicle in the safest and most efficient condition possible. Safety is an obligation of the vehicle owner. The most important points of vehicle inspection, adjustment and lubrication are explained on the following pages.

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 vehicle servicing, this work should be done by a Yamaha dealer or other qualified mechanic.

Owner's/Operator's Manual

You are recommended to put this Owner's/Operator's Manual in the vinyl bag and always keep it with the vehicle.

The service information included in this manual is intended to provide you, the owner, with the necessary information for completing your own preventive maintenance and minor repairs.

NOTE:

If you do not have a torque wrench available during a service operation requiring one, take your vehicle to a Yamaha dealer to check the torque settings and adjust them as necessary.

PERIODIC MAINTENANCE/LUBRICATION

NOTE:

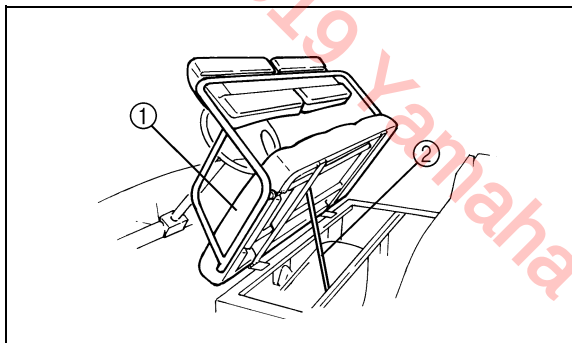
- For vehicles not equipped with an odometer or an hour meter, follow the month maintenance intervals.
- For vehicles equipped with an odometer or an hour meter, follow the km (mi) or hours maintenance intervals. However, keep in mind that if the vehicle isn't used for a long period of time, the month maintenance intervals should be followed.

ITEM	ROUTINE	Whichever comes first ⇒	INITIAL		EVERY		
			month	1	6	6	12
			km (mi)	160 (100)	1,000 (600)	1,000 (600)	2,000 (1,200)
			hours	20	125	125	250
Batteries	• Check electrolyte level. • Check for loose or broken connections.			○	○	○	
Battery condition	• Perform a discharge test.					○	
Transmission oil	• Check oil level/oil leakage. • Replace.		○	○	○	○	
Brakes*	• Check operation/brake shoe wear. • Correct if necessary. Replace shoes if worn to the limit.		○	○	○	○	
Accelerator pedal*	• Check operation and free play.		○	○	○	○	
Wheels*	• Check balance/damage/runout. • Repair if necessary.		○	○	○	○	
Wheel bearings*	• Check bearing assemblies for looseness/damage. • Replace if damaged.		○	○	○	○	
Front and rear suspension*	• Check operation and for leakage. • Correct if necessary.			○		○	
Steering system*	• Check operation and for looseness/Replace if damaged. • Check toe-in/Adjust if necessary.		○	○	○	○	
Fittings and fasteners*	• Check all chassis fittings and fasteners. • Correct if necessary.		○	○	○	○	

* Since these items require special tools, data and technical skills have a Yamaha dealer perform the service.

Seat

Lift the seat to service the batteries.



1. Seat

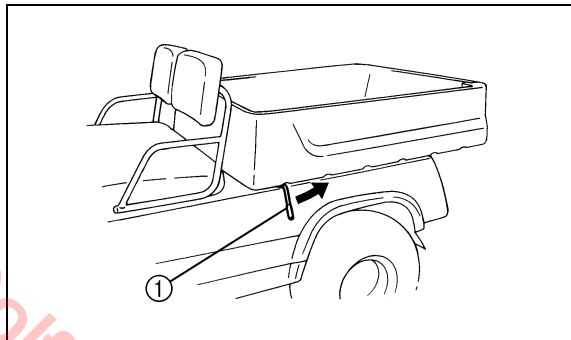
2. Prop rod

Cargo bed

Lift the cargo bed to service the batteries.

1. Pull the cargo bed release lever towards the rear.
2. Lift the cargo bed.

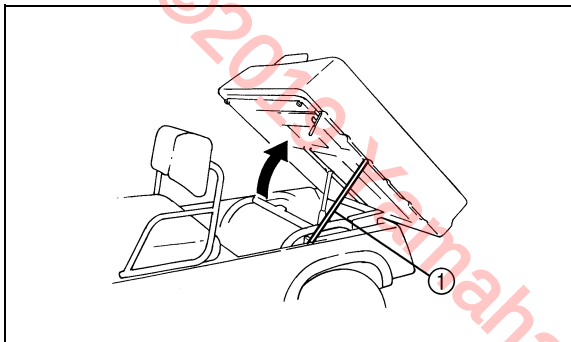
3. Lift the cargo bed up until the end of the prop rod hooks onto the prop rod guide to support the cargo bed.



1. Cargo bed release lever

CAUTION:

Do not lift the cargo bed by the release lever. Damage to the lever may occur.



1. Prop rod

⚠ WARNING

- Remove the key from the main switch and apply the parking brake before lifting the cargo bed. Otherwise, the utility vehicle could move unexpectedly.
- Never operate the utility vehicle with the cargo bed in the up position. Injury could occur if the cargo bed falls accidentally.
- Before closing the cargo bed, be sure others are standing away from the utility vehicle and that no one is sitting on the seat. Keep hands and fingers away from the space between the cargo bed and seat backs.

Batteries

Battery care

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 an enclosed space. Always shield eyes when working near batteries.

KEEP OUT OF REACH OF CHILDREN.

Eight 6-volt deep cycle batteries provide power for your electric utility vehicle and must be properly maintained and recharged for maximum performance and service life.

To maintain your batteries:

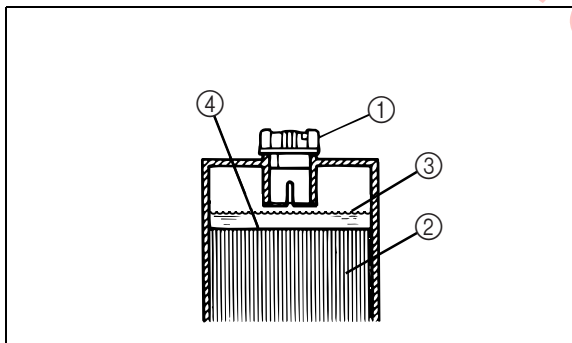
1. Clean the tops of the batteries with a solution of baking soda and water, as necessary, to remove corrosion.

CAUTION:

Do not allow cleaning solution to enter battery cells.

2. Check the fluid level before and after charging.

- **Before charging:** only add distilled water if fluid is below the top of the plates, and then add just enough to cover plates.
- **After charging:** check that the fluid level is approximately 6.4 mm (0.25 in) to 12.7 mm (0.5 in) above the plates and 6.4 mm (0.25 in) to 9.7 mm (0.38 in) below the level indicator. If the fluid level is low, carefully add distilled water. Adding distilled water after charging helps prevent boil over.

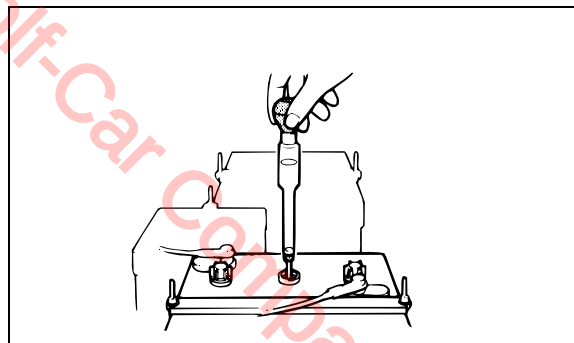


- | | |
|------------------------|------------------------|
| 1. Battery cap | 2. Plates |
| 3. Maximum fluid level | 4. Minimum fluid level |

CAUTION:

Normal tap water contains minerals which are harmful to a battery; therefore, refill only with distilled water.

3. Using a hydrometer, check the specific gravity of the battery fluid in each cell against the readings on the following chart. Consult a Yamaha dealer if any low readings are found, or if readings vary more than one point between cells.



Temperature		Satisfactory Uncorrected Hydrometer Reading
°F	°C	
120	48.9	1.244
110	43.3	1.248
100	37.8	1.252
90	32.2	1.256
80	26.7	1.260
70	21.1	1.264
60	15.6	1.268
50	10.0	1.272
40	4.4	1.276
30	-1.1	1.280

Battery charging

WARNING

Read and understand the Owner's Manual provided with your utility vehicle's battery charger before charging batteries.

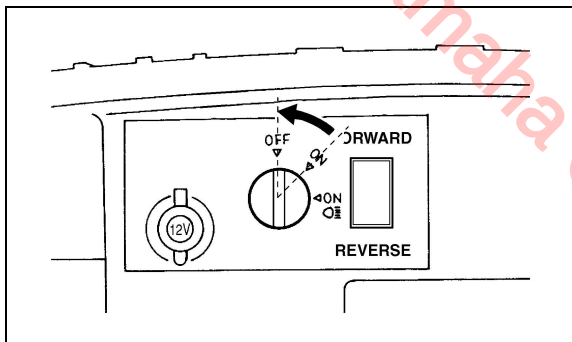
WARNING

Explosive hydrogen gas is produced while batteries are being charged. Only charge batteries in well ventilated areas (a minimum of 5 air changes per hour is recommended).

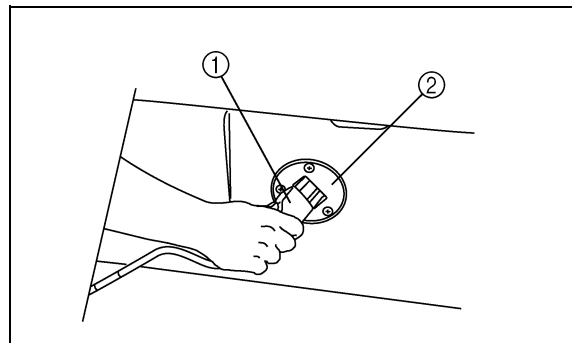
To charge the batteries in your utility vehicle, follow the instructions contained in your battery charger's owner's manual.

The following is a summary of the charging steps. **Do not attempt to recharge your utility vehicle's batteries without thoroughly reading and understanding the owner's manual provided with your charger.**

1. Turn the key to the "OFF" position.



2. With the charger properly connected and grounded (see charger's owner's manual), insert the DC output plug into the utility vehicle receptacle.



1. DC output plug

2. Receptacle

CAUTION:

Use only battery chargers that are rated for use with 48 volt Yamaha Utility Vehicles. Thoroughly read and understand the user manual supplied with your 48 volt charger.

⚠ WARNING

Do not disconnect the DC output cord from the battery receptacle when the charger is on or an arc could occur that may cause an explosion.

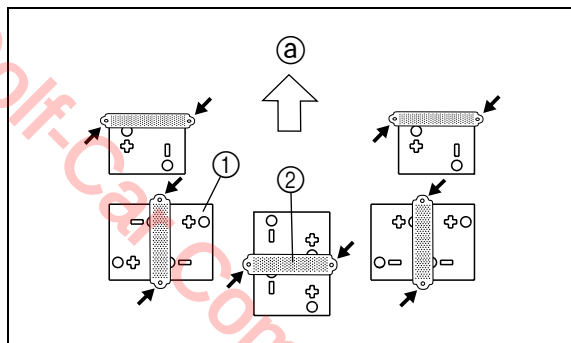
3. The charger will turn off automatically when the batteries reach full charge.
4. After the charger has turned off, disconnect the DC output plug from the utility vehicle receptacle by grasping the plug body and pulling the plug straight out of the receptacle.

Battery installation

⚠ WARNING

When working with batteries, do not put wrenches or other metal objects across the battery terminals. An arc can occur causing explosion of the battery.

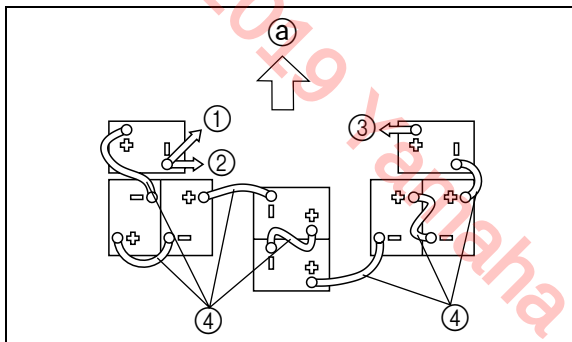
1. Install the battery brackets by installing and tightening the nuts.



- a. Forward
2. Battery bracket

1. Battery

2. Connect the wire leads as shown.



- a. Forward
2. To motor control unit
4. Between batteries

1. To receptacle
3. To relay

⚠ WARNING

When installing batteries:

- **Carefully place battery cables and brackets making sure that cables do not lay across vent caps.**
- **Always remove the negative (–) cable to the motor controller first, and install it last.**

CAUTION:

Do not overtighten the battery bracket nuts. Excessive force will damage the battery casing.

Fuse replacement

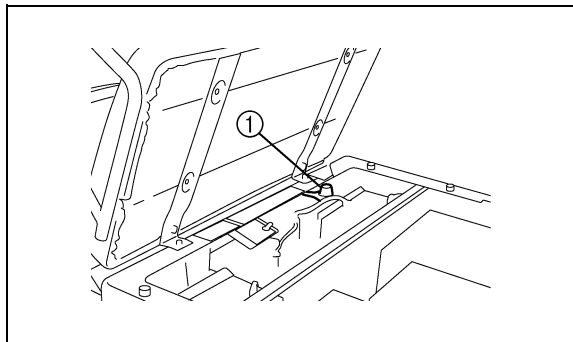
The fuse is located under the seat. (See page 8-3 for seat opening and closing procedures.) If a fuse is blown, replace it.

WARNING

Be sure to use the specified fuse. Using a wrong fuse can cause electrical system damage and create a fire hazard.

CAUTION:

When replacing a fuse be sure the main switch is turned off to prevent accidental short-circuiting.



1. Main fuse

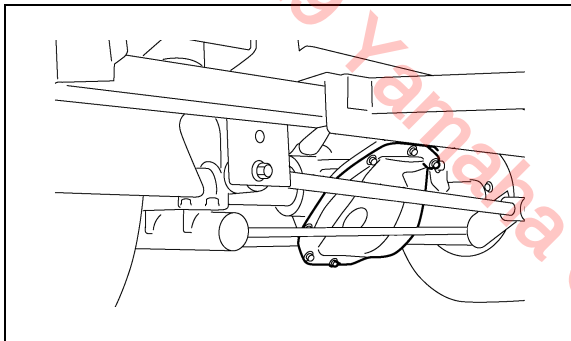
Replacement Fuse:

Main fuse: 10 A

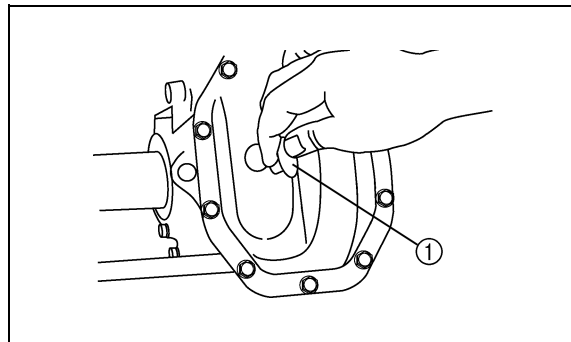
Transmission oil

Transmission oil measurement

1. Place the vehicle on a level surface.



2. Remove the transmission oil filler plug and check the oil level. It should be up to the brim of the filler hole. If the level is low, add sufficient oil of the recommended type to raise it to the specified level.



1. Transmission oil plug

CAUTION:

Be sure no foreign material enters the transmission case.

3. Install the transmission oil filler plug.

Recommended oil:

SAE 90 gear oil

Oil quantity:

0.30 L (0.26 Imp qt, 0.32 US qt)

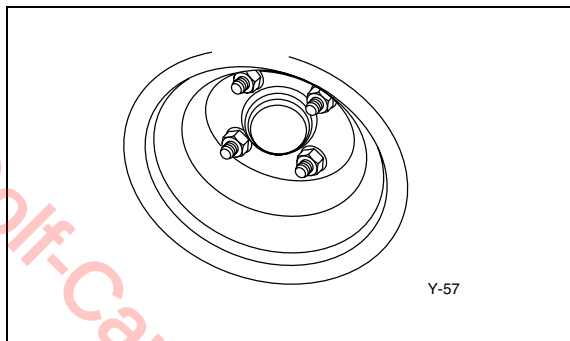
4. Check for oil leakage. If oil leakage is found, check for the cause.

NOTE: _____

For transmission oil replacement, consult a Yamaha dealer.

Wheel removal

1. Loosen the wheel nuts.
2. Elevate the vehicle and place a suitable stand under the frame.
3. Remove the nuts from the wheel.
4. Remove the wheel.



Wheel installation

1. Install the wheel and the nuts.

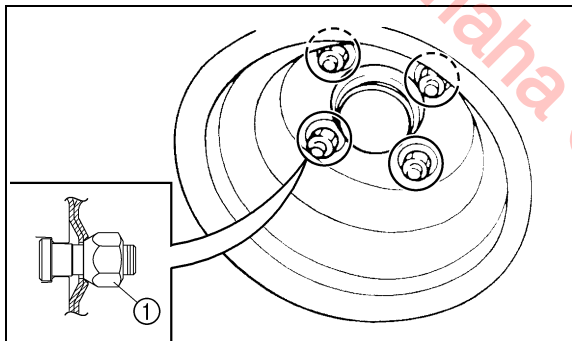
NOTE:

Tapered nuts are used for both the front and rear wheels. Install the nut with its tapered side towards the wheel.

2. Lower the vehicle so that the wheel is on the ground.
3. Tighten the wheel nuts to the specified torque.

Wheel nut torque:

88 Nm (8.8 m·kgf, 64 ft·lbf)



1. Tapered nut

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. Brake failure could result in a serious accident.

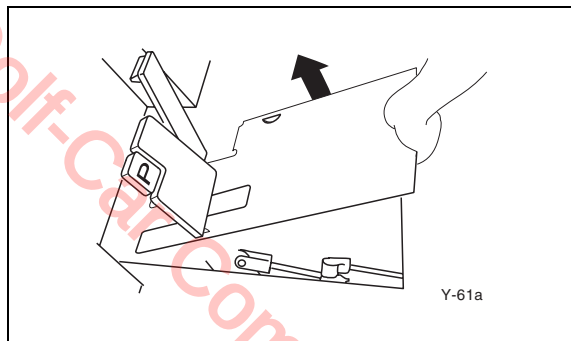
Brake pedal free play adjustment

CAUTION:

Before adjusting brake pedal free play, pump the brake pedal several times to self-adjust the brakes.

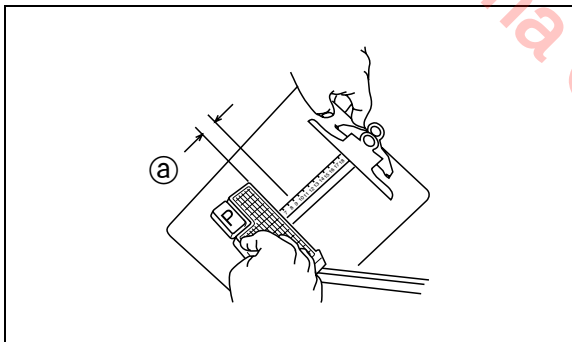
To adjust the brake pedal free play:

1. Remove the service lid from the floor of the utility vehicle.



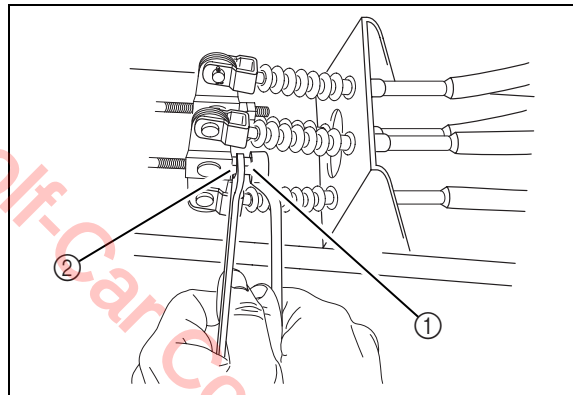
2. Check the brake pedal free play by pressing against the pedal with two fingers (using light force) and measuring the distance the pedal travels before resistance is felt.

Brake pedal free play:
20–25 mm (0.79–0.98 in)



a. Brake pedal free play

3. If the free play distance needs adjusting, loosen the locknut and turn the adjusting nut in or out (in 180° increments only, due to the cam shape of adjuster), until the free play specification is met. Then tighten the locknut to the specified torque.



1. Locknut

2. Adjusting nut

Tightening torque:
17 N·m (1.7 m·kgf, 12 ft·lbf)

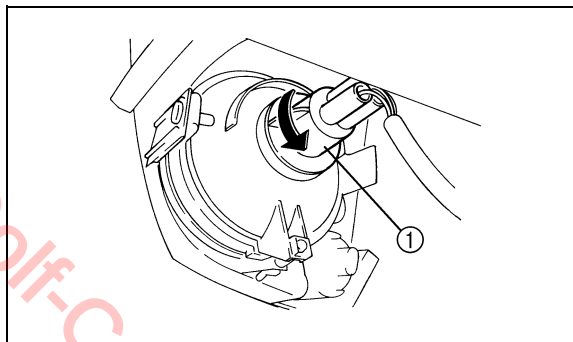
WARNING

Do not overtighten the locknut. The self adjusters may not operate properly, reducing braking performance.

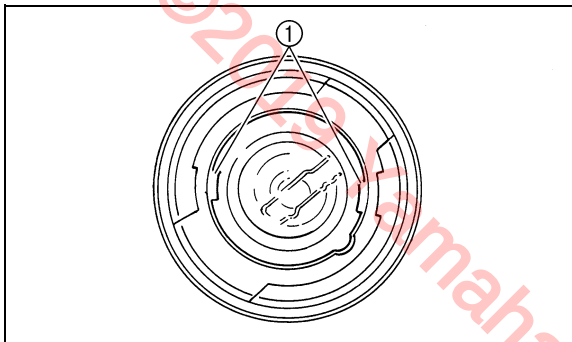
Replacing a headlight bulb

If a headlight bulb burns out, replace it as follows.

1. Remove the headlight bulb holder by turning it counterclockwise.



1. Headlight bulb holder
2. Remove the defective bulb by unhooking the headlight bulb holder projections.



1. Headlight bulb holder projection (× 2)

3. Insert a new headlight bulb into the bulb holder, and then hook the headlight bulb holder projections onto the headlight bulb.
4. Install the headlight bulb holder by turning it clockwise.

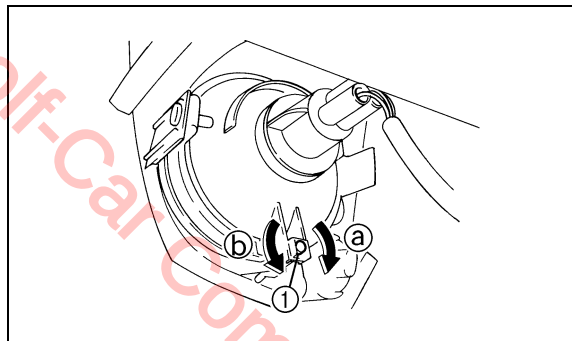
Adjusting a headlight beam

CAUTION:

It is advisable to have a Yamaha dealer make this adjustment.

To raise the beam, turn the adjusting screw in direction ①.

To lower the beam, turn the adjusting screw in direction ②.



1. Headlight beam adjusting screw

Replacing a taillight bulb

If a taillight bulb burns out, have a Yamaha dealer replace it.

CLEANING AND STORAGE

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

NOTE:

Turn the key to “OFF”, turn the tow switch to “TOW”, remove the key, and then store the key in a safe place.

Chassis preparation

1. Block up the frame to raise all wheels off the ground.
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 storage care

1. Recharge the batteries and check the fluid levels at least once a month.
2. Clean the tops of the batteries with a solution of baking soda and water, as necessary, to remove corrosion.

CAUTION:

Do not allow cleaning solution to enter battery cells.

SPECIFICATIONS

Model	G23E
Dimensions: Overall length Overall width Overall height (steering height) Height of floor Wheelbase Tread: Front Rear Ground clearance	2915 mm (114.7 in) 1243 mm (48.9 in) 1155 mm (45.5 in) 300 mm (11.8 in) 1900 mm (74.8 in) 980 mm (38.6 in) 980 mm (38.6 in) 115 mm (4.5 in)
Weight: Dry weight (without batteries)	315 kg (694 lb)
Performance: Maximum speed Minimum turning radius Seating capacity	24 km/h (14.9 mph) 3.3 m (130 in) 2 persons
Transmission oil: Type Quantity	SAE 90 gear oil 0.30 L (0.26 Imp qt, 0.32 US qt)

Model	G23E
Steering system: Type	Worm and pin
Brakes: Brake system Type of brake Brake pedal freeplay linkage adjustment	Mechanical drum brake on front and rear wheels with self-adjusters Dual internal expanding shoe Leading/trailing shoes (self-adjusting) 20–25 mm (0.79–0.98 in)
Parking brake: Type	Foot type; with automatic release
Wheel: Tire size: Front Rear Tire pressure: Front Rear	18 x 8.5–8 / 4 PLY 18 x 8.5–8 / 6 PLY 140–160 kPa (1.4–1.6 kgf/cm ² , 20–23 psi) 197–217 kPa (2.0–2.2 kgf/cm ² , 29–31 psi)
Battery:	BCI group 24 US Battery 6V Deep cycle GC-2 8 pcs./Series 110 minutes at 56 A at 80 °F

Model	G23E
Bulb voltage, wattage × quantity: Headlight Taillight	12 V, 30 W / 30 W × 2 Sealed beam × 2
Specified fuses: Main fuse	10 A

MAINTENANCE RECORD

Copies of work orders and/or receipts for parts you purchase and install will be required to document maintenance done in accordance with the warranty. The chart below is printed only as a reminder to you that the maintenance work is required. It is not acceptable proof of maintenance work.

MAINTENANCE INTERVAL			DATE OF SERVICE	MILEAGE	SERVICING DEALER NAME AND ADDRESS	REMARKS
month	km (mi)	hours				
1	160 (100)	20				
6	1,000 (600)	125				
12	2,000 (1,200)	250				
18	3,000 (1,800)	375				
24	4,000 (2,400)	500				
30	5,000 (3,000)	625				
36	6,000 (3,600)	750				
42	7,000 (4,200)	875				
48	8,000 (4,800)	1,000				
54	9,000 (5,400)	1,125				
60	10,000 (6,000)	1,250				

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PROTECT YOUR INVESTMENT

Use Genuine YAMAHA Parts And Accessories

***See your Authorized YAMAHA Dealer for a Genuine YAMAHA
Service Manual.***



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