



MODEL YEAR **2019**

OWNER'S / OPERATOR'S MANUAL



UTILITY VEHICLE

 Read this manual carefully before operating this vehicle.



YUM2E

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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.

Yamaha Motor Corporation, U.S.A.

**YUM2E
OWNER'S / OPERATOR'S MANUAL
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IMPORTANT MANUAL INFORMATION

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

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
 WARNING	A WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
NOTICE	A NOTICE indicates special precautions that must be taken to avoid damage to the vehicle or other property.
TIP	A TIP provides key information to make procedures easier or clearer.

TIP

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

WARNING

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

CONTENTS

CONTENTS

WARRANTY

IMPORTANT LABELS

 SAFETY INFORMATION

CONTROLS

PRE-OPERATION CHECKS

OPERATION

MAINTENANCE

STORAGE

SPECIFICATIONS

INDEX

1

2

3

4

5

6

7

8

9

10

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WARRANT

LIMITED 2-YEAR WARRANTY FOR TRANSPORTATION AND UTILITY VEHICLES

1

Yamaha Golf-Car Company hereby warrants that any new Yamaha utility vehicle or any multi passenger cars or specialty vehicles purchased from Yamaha, or an Authorized Dealer or Distributor in the United States will be free from defects in material and workmanship for TWO years from date of purchase, subject to the stated limitations. DURING THE PERIOD OF WARRANTY, any authorized Yamaha golf car service technician, dealer, or distributor will, free of charge, repair or replace, at Yamaha's option, any part adjudged defective by Yamaha due to faulty workmanship or material from the factory. Parts used in warranty repairs will be warranted for the balance of the vehicle's warranty period. All parts replaced under warranty become property of Yamaha Golf-Car Company.

Common Parts		Electric Car Specific	
Frame	2 Years	Battery - Trojan ' T105 '	4 Years or 20,000 amp-hours whichever comes first *Detailed condition on the next page
Transaxle	2 Years	Electric Motor	2 Years
Pedals	2 Years	Motor Controller / Charger	2 Years
Brakes (excluding shoes / pads)	2 Years	Charger Cord	2 Years
Electrical wires, switches, and relays	2 Years	Charger Receptacle	2 Years
Suspension / Steering components	2 Years	Throttle Position Sensor	2 Years
Seats	2 Years	GAS Car specific	
Head Light	2 Years	Exhaust / Intake / Generator	2 Years
Bumpers / Body Parts	2 Years	Gas Engine	2 Years
Floor Mats	2 Years	Throttle Cables / Controls	2 Years
Scorecard Holders	2 Years	Battery	1 Year
Cargo bed	2 Years	Clutch (excluding drive belt)	2 Years
Common Accessories		All Remaining Parts	1 year
Windshield	3 Years		
Sun Top	2 Years		
Tail Light	2 Years		

EXCLUSIONS from this Warranty shall include any failures caused by:

- Abnormal strain, neglect, or abuse, including lack of proper maintenance, and use contrary to the Owner's/Operator's Manual instructions.
- Accident or collision damage.
- Installation of parts or accessories that are not original equipment.
- Fading, rust, or deterioration due to exposure or ordinary wear and tear.
- Modifications or alterations that affect the car's condition, operation, performance, or durability.
- 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 and charger as specified in the appropriate Owner's/Operator's Manual, and give notice to an authorized Yamaha golf car dealer of any and all apparent defects within ten (10) days after discovery, and make the vehicle or charger available at that time for inspection and repairs by the dealer's authorized representative.

WARRANTY TRANSFER: This warranty is to the original owner only and is not transferable.

Yamaha Golf-Car Company makes no other warranty of any kind, expressed or implied. All implied warranties of merchantability and fitness of merchantability and fitness for a particular purpose which exceed the obligations and time limits stated in this warranty are hereby disclaimed by Yamaha Golf-Car Company and excluded from this Warranty. Some states do not allow limitations on how long implied warranty lasts, so the above limitation may not only apply to you. Also excluded from this Warranty is any incidental or consequential damages including loss of use. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. This Warranty give you specific legal rights, and you may also have other rights, which vary, from state to state.

Yamaha Golf-Car Company, USA, KENNESAW, GEORGIA 30144

EFFECTIVE DATE: 5/1/17

YAMAHA FOUR-YEAR LIMITED WARRANTY FOR TROJAN BRAND ELECTRIC GOLF CAR AND UTILITY VEHICLE BATTERIES WHEN CHARGED WITH A YAMAHA 48-VOLT CHARGER

Yamaha Golf-Car Company (herein referred to as "YGC") hereby warrants to the Original Retail Purchaser or Lessee of a YAMAHA The Drive golf car or PTV, Adventurer utility vehicle, or YAMAHA Concierge transportation or specialty car purchased from Yamaha, or an Authorized Dealer or Distributor in the United States, that the Trojan batteries charged with a YAMAHA battery charger will be free from defects in materials and workmanship, and will provide "36-hole performance" as follows:

- 4-years or 20,000 amp-hours with T-105
- 4-years or 21,500 amp-hours with T-105 batteries & the addition of a factory-installed Trojan HydroLink Battery Watering System.

WARRANTY LIMITATIONS

Yamaha Golf-Car Company's and Trojan Battery Company's limit of liability shall be to replace a defective battery. Replacement shall mean furnishing a new battery or used battery with sufficient life to complete the remainder of the warranty term, at no cost to the purchaser during the limited warranty period, except for labor or transportation expenses.

The following conditions apply:

- Amp-hours will be determined either through the Genius controller or through other means as necessary in the event of a controller failure or replacement.
- This warranty only applies to factory installed Trojan battery sets charged with a Yamaha battery charger.
- The customer must perform (or have a contracted Yamaha Dealer perform) all periodic maintenance and discharge testing as specified in the Yamaha Service Manual Maintenance Schedule. No labor or transportation expenses are included in this limited warranty. Maintenance records must be kept.
- YGC supplied or approved replacement batteries may be of a different brand or capacity, but are warranted to provide 36-hole performance for the remainder of the original warranty term.
- "36-hole performance" is defined as 60-minutes discharge time as tested and recorded using a Lester model #17770 discharge machine at an ambient temperature of between 60 and 100 degrees F (16 and 38 degrees C). Ambient temperatures between 60 and 80 degrees F (16 and 27 degrees C) must be corrected using the formula: Adjusted Discharge Time = (Discharge Minutes) / (1-(((80-TEMP)/100) x 0.64)).
- The customer must notify the Dealer within 10 days that a vehicle has failed to make 36 holes per day. YGC reserves the right to test and recharge any battery in question.

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE VOID AND EXCLUDED SUBSEQUENT TO ONE YEAR FROM THE DATE OF PURCHASE. THE REPLACEMENT OF THE BATTERY IS THE EXCLUSIVE REMEDY UNDER THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. YAMAHA MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, AND NO REPRESENTATIVE, EMPLOYEE, DISTRIBUTOR OR DEALER OF YAMAHA HAS THE AUTHORITY TO MAKE OR IMPLY ANY REPRESENTATION, PROMISE OR AGREEMENT WHICH IN ANY WAY VARIES THE TERMS OF THIS LIMITED WARRANTY.

LIMITED WARRANTY EXCLUSIONS

Without limiting the generality of the foregoing in any way, and as part of its limited warranty exclusion, YAMAHA does not warrant that its battery is suitable for use in any application other than in a golf car or utility vehicle. As in the use of any battery, a prudent owner will read and study the charger owner's manual, the vehicle owner's manual, the operator's instructions, and the battery warning labels; and will exercise due care in working on or around batteries.

THE PROVISIONS OF THIS LIMITED WARRANTY SHALL NOT APPLY IF BATTERIES ARE SUBJECTED TO ANY OF THE FOLLOWING CONDITIONS:

- Abuse or neglect such as improper fluid levels, loose wiring, rusted or corroded hardware.
- Lack of proper maintenance as outlined in the electric vehicle Owner's/Operator's Manual. For example, lack of regular battery watering or adding water to the battery before charging.
- Damage caused by improper installation of the battery.
- Neglect, breakage, freezing, fire, explosion, wreckage, the addition of any chemical, or the operation of the battery in an uncharged condition (below half-charge – 1.200 specific gravity).
- Battery charged by systems other than the original equipment type battery charger.
- On fleet golf cars, the use of any non-YAMAHA supplied electrical devices that consume more than one amp-hour per round or two amp-hours per day of battery energy. Examples of these devices include, but are not limited to: heating or cooling systems; GPS (global position system) devices; information gathering devices; lights; radios or stereos; or yardage measuring devices.
- Less than one charger per car or inadequate facility electrical power to power all chargers. Examples include more than one charger on a single circuit, circuit rating of less than 15 amps, or not enough circuits for the number of cars.
- In fleet applications, less than one battery charger per vehicle. For example, using only 10 battery chargers to charge a 15 car fleet.
- The use of any system that does not allow the battery chargers to shut off automatically. For example, timer systems that are designed to switch battery charger AC power on and off during peak demand hours.
- Damage not resulting from a defect in materials or workmanship or which occurs due to abuse or neglect (including failure to provide reasonable and necessary maintenance), accident, alteration or acts of God is excluded from this limited warranty.

THIS BATTERY IS INTENDED TO BE USED BY PERSONS WITH TRAINING AND EXPERIENCE WITH BATTERIES AND ONLY IN YAMAHA ELECTRIC VEHICLES. ANY OTHER USE RENDERS THE LIMITED WARRANTIES EXPRESSED HEREIN AND ALL IMPLIED WARRANTIES NULL AND VOID AND SAME ARE HEREBY EXCLUDED.

ALSO EXCLUDED FROM THIS LIMITED WARRANTY ARE ANY AND ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF USE OR REVENUE, LOSS OF TIME, INCONVENIENCE OR ANY OTHER ECONOMIC LOSS.

Some states do not allow limitation on the duration of an implied warranty, exclusions or limitations of incidental or consequential damages. Therefore, the above limitations or exclusions 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.

For further information or to submit a warranty claim, contact your local Yamaha Golf-Car Dealer or Yamaha's customer relations at (800) 962-7926.

Yamaha Golf-Car Company, USA
Kennesaw, GEORGIA 30144

EFFECTIVE DATE: 07/01/16

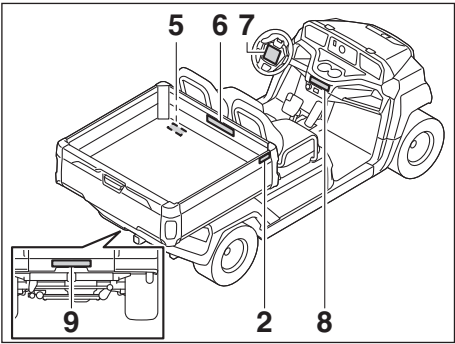
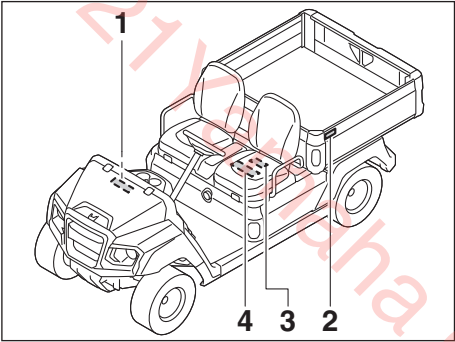
LIT-13710-EL-14

IMPORTANT LABELS

SAFETY AND INSTRUCTION LABELS

WARNING

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



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	JOG-F151F-00

2

2

⚠ WARNING	
	• Keep hands, body, other persons, away from pinch points when lowering bed. • Do not operate the vehicle with bed up.
YAMAHA	JOG-K7764-00

3

NOTICE / NOTIFICATION	
Move switch to the "TOW" position before towing or storage. Failure to do so may lead to: • Drive system damage when towing. • Complete battery discharge and battery damage when storing long term. • After moving switch from "RUN" to "TOW", wait 15 seconds minimum before switching again.	Mettre l'interrupteur a position "TOW" avant de remorquer ou avant l'entreposage. Non-observation pourrait: • Dommages de système d'entraînement en remorquant. • Causer une decharge totale de la batterie et endommager la batterie pendant l'entreposage a long terme. • Apres avoir change l'interrupteur de position "RUN" a position "TOW", attendre un minimum de 15 seconds avant de le remettre.
YAMAHA	JOC-K8298-00

4

	⚠ WARNING 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.		⚠ WARNING Sulfuric acid in batteries will burn skin, eyes, and clothing. • Do not tip batteries. • Keep vent caps tight and level. • In the event of injury, flush with water and call physician immediately.		⚠ WARNING Electrical shorts can result in burns. • Do not make connection between positive and negative battery terminals.
YAMAHA					JOH-K8297-00

IMPORTANT LABELS

5

2

DATE OF CONSTRUCTION: *** **** MY20**
YAMAHA MOTOR POWERED PRODUCTS CO., LTD
200-1 SAKAGAWA, KAKEGAWA, JAPAN
MODEL: YUM2E**
VEHICLE WEIGHT: **** kg (**** lb)
NOMINAL BATTERY VOLTAGE: **V
BATTERY WEIGHT MAX.: ***kg, MIN.: **** kg

MAX. POWER: *** hp (*** kW)
LOAD CAP.: *** kg (**** lb)
G.V.W.: **** kg (**** lb)

CE

This vehicle complies with ANSI/ITSDF B56.8-2011-Part III

J0H-F4236-**

6

⚠ WARNING

Improper use of cargo bed can result in SEVERE injury or DEATH from loss of control, overturn or other accidents.

- Do not carry passengers in cargo bed.
- Maximum load in cargo bed: 800 lb (363 kg).
- When loaded with cargo or towing a trailer:
 - Reduce speed and allow more room to stop.
 - Turn gradually and go slowly.
 - Avoid hills and rough terrain.
- 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 bed 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 or towing.

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

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

YAMAHA

J0G-K7766-00

7

⚠ WARNING

To reduce the risk of accidents and injury or DEATH:

- Never travel at speeds too fast for the terrain, visibility conditions, or your experience.
- Drive with extra caution in congested areas, when operating in reverse, and when driving on wet, rough, or loose surfaces.

OPERATING INSTRUCTIONS

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

ATTENTION

- This vehicle was not manufactured for use on public streets and does not comply with federal motor vehicle safety standards applicable to passenger cars.

YAMAHA

J0B-K7762-00

Parking
Brake
Accelerator

8

⚠ WARNING

To reduce the risk of accidents and injury or DEATH:

- Vehicle capacity: 1 operator and 1 passenger.
- Remain seated and hold on while in motion.
- Keep entire body inside vehicle.
- Passenger and cargo can affect vehicle handling.
- Drive slowly in turns.
- Drive straight up and down hills—driving across the side of hill increases the risk of overturn.
- Vehicle rated capacity (driver, passenger, cargo, trailer, and load) 1500 lbs (680.3 kg) on level surface.
- This vehicle is recommended only for operators 16 or older with valid motor vehicle license. Adults must supervise use by minors. Check state laws for minimum age requirements.
- Locate and read Owner's Manual. Follow all instructions and warnings.

YAMAHA

JOG-K7768-00

2

9

⚠ WARNING

Improper loading a trailer or pulling an object can affect handling, stability, and risk of overturn or other accidents.

- Secure load to prevent it from shifting.
- Never load more than 150 lb (68 kg) tongue weight on the towing bracket.
- Do not tow more than 1500 lb (680 kg) rolling weight (trailer plus cargo).
- Read Owner's/Operator's Manual before loading, towing, or pulling objects.

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.

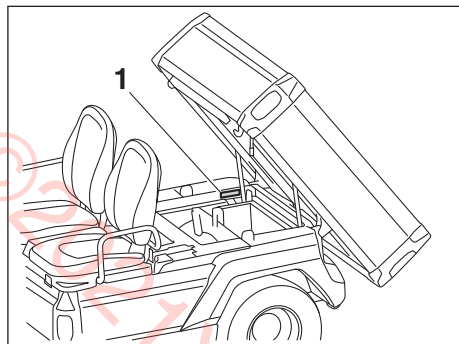
Tire size	Recommended		Minimum	
	Front	Rear	Front	Rear
20x10-10, 4-ply rated	137 kPa, 20 psi	151 kPa, 22 psi	124 kPa, 18 psi	151 kPa, 22 psi
20x10-10, 6-ply rated	206 kPa, 30 psi	206 kPa, 30 psi	193 kPa, 28 psi	193 kPa, 28 psi
23x10.5-12, 4-ply rated	137 kPa, 20 psi	137 kPa, 20 psi	124 kPa, 18 psi	124 kPa, 18 psi

- Never set tire pressure below minimum. Tire may dislodge from rim.

YAMAHA

JOG-F1696-00

IMPORTANT LABELS



1. Utility vehicle serial number

UTILITY VEHICLE SERIAL NUMBER

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

TIP

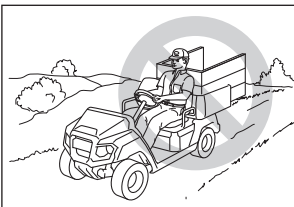
The first three digits of the serial number are for model identification; the remaining digits are the unit production number. Keep a record of these numbers for reference when ordering parts from a Yamaha dealer.

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

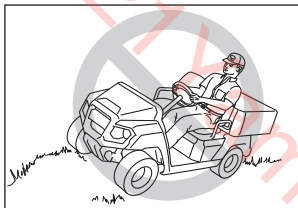
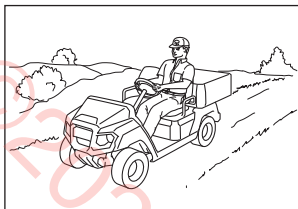
3

- 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 two occupants.
- Never give a ride to a passenger who is unable to put both feet firmly on the floorboard while seated with his or her back against the backrest.
- Never carry passengers in the cargo bed.
- Do not operate the utility vehicle while under the influence of alcohol or drugs; their effect on vision and judgment make operating a utility vehicle dangerous.
- This vehicle was not manufactured for use on public streets and does not comply with federal motor vehicle safety standards applicable to passenger cars.
- Do not operate the utility vehicle on public streets, roads or highways unless allowed by law or the local regulating authority.
- Do not make any modification or addition which affects capacity or safe operation, or make any changes not in accordance with the Owner's / Operator's manual.



SAFETY INFORMATION

3



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.

ACCESSORIES AND LOADING

Accessories

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

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

Loading

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

- Never exceed the weight limits shown on page 45. An overloaded utility vehicle can be unstable.
- Do not exceed the maximum tongue weight. You can measure tongue weight with a bathroom scale. Put the tongue of the loaded trailer on the scale with the tongue at hitch height. Adjust the load in the trailer, if necessary, to reduce the weight on hitch. If you are carrying cargo and towing a trailer, include the tongue weight in the maximum vehicle load limit.

SAFETY INFORMATION

3

- Cargo should be as far forward in the bed as possible, and distributed evenly from side to side. Be sure cargo is secured so that it cannot move around during operation.
- Cargo should always be secured in the trailer. Make sure cargo in the trailer cannot move around. A shifting load can cause an accident.
- Make sure the load does not interfere with controls or your ability to see where you are going.
- Drive more slowly than you would without a load. The more weight you carry, the slower you should go. Although conditions vary, it is good practice not to exceed low range whenever you are carrying heavier loads or when towing a trailer.
- Allow more braking distance. A heavier vehicle takes longer to stop. Do not brake abruptly when carrying loads in the cargo bed or when towing a trailer.
- Avoid making sharp turns unless at very slow speeds to avoid tipping or rolling the vehicle.
- Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and handling of the utility vehicle.

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 hydrogen gas from electric powered car storage areas during the charging process.

For electric powered utility vehicles, the amount of hydrogen gas emitted during charging depends on a number of factors, such as the condition of the batteries, the output rate of the battery charger and the amount of time the batteries are on charge. Because of the highly volatile nature of hydrogen gas and its propensity to rise and accumulate at the ceiling in pockets, minimum of five air changes per hour is recommended. Consult applicable fire and safety codes for the specific ventilation level requirements, as well as requirements for the use of explosion proof electrical devices.

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.
- When working on the battery, do not smoke, or allow any sparks or open flames near the vehicle, to avoid any fires or explosions.
- Before working on an electric utility vehicle, disable the car's electrical system by placing the tow switch in the "TOW" position to avoid electrical shock or damage to the electrical system.
- Use only properly insulated tools when working on electrically powered utility vehicles or around batteries to avoid electrical shock or damage to the electrical system.
- Maintain all safety devices, including brakes, steering mechanisms, warning devices, 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 –

SAFETY INFORMATION

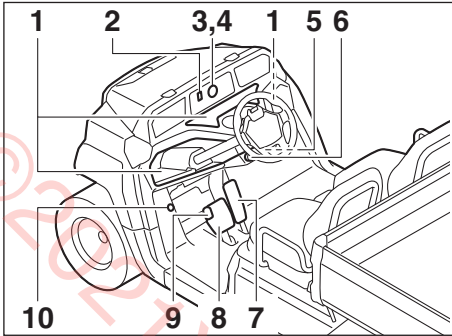
in an area free of pedestrian traffic – to ensure proper operation and adjustment.

- 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.

STORAGE AND BATTERY CHARGING

Take the following precautions to ensure maintenance worker safety:

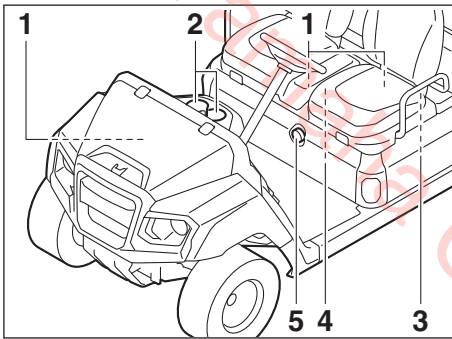
- Only use battery changing and charging facilities and procedures that are in accordance with applicable ordinances and regulations to avoid explosions, electrical shock or damage to the electrical system.
- Periodically inspect charging facilities and procedures to be certain that applicable safety codes, regulations and procedures are being followed to avoid any fires or explosions.



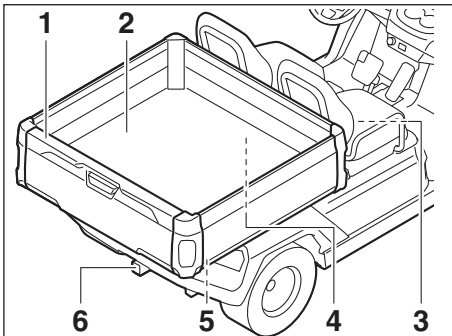
FEATURES

1. Storage compartment
2. Light switch
3. Low battery level warning light
4. Battery gauge
5. Drive select switch
6. Main switch
7. Accelerator pedal
8. Brake pedal
9. Parking brake pedal
10. Horn switch

4

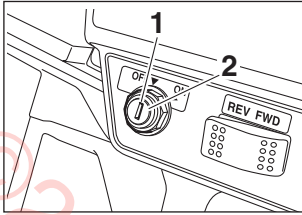


1. Storage compartment
2. Cup holder
3. Tow switch
4. Batteries
5. DC charger receptacle



1. Tailgate
2. Cargo bed
3. Storage compartment
4. Fuses
5. Transaxle oil level plug
6. Trailer hitch receiver bracket

CONTROLS



1. OFF
2. ON

MAIN SWITCH

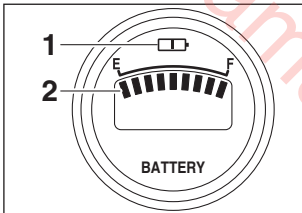
The main switch positions are described below.

“OFF”

All electrical circuits are switched off (motor controller unit remains energized). The utility vehicle cannot be operated. The key can be removed only in this position.

“ON”

Electrical circuits are switched on. The vehicle can be driven.



1. Low battery level warning light
2. Battery gauge

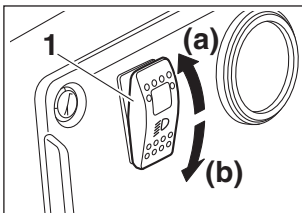
BATTERY GAUGE

The battery gauge displays how much charge is left in the batteries. When the batteries are at full charge, all the segments will be lit.

As the battery energy decreases, the segments will move to the left toward the “E”. When the segment below the “E” is the only one lit, the batteries must be charged.

TIP

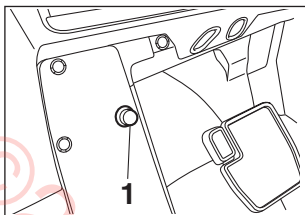
If the remaining battery charge is low, the low battery level warning light comes on.



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.



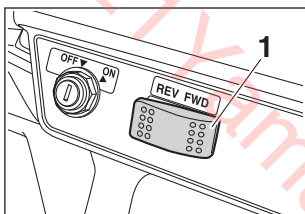
1. Horn switch

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. Drive select switch

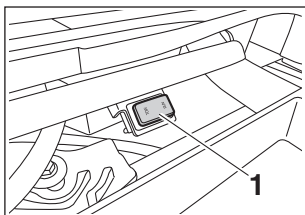
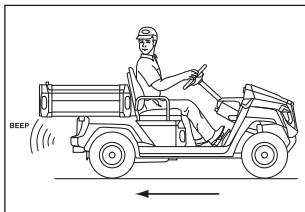
DRIVE SELECT SWITCH

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

Switch Position	Vehicle Movement
FWD	Forward
REV	Reverse

TIP

The reverse alarm will sound when the drive select switch is set to "REV".



1. Tow switch

TOW SWITCH

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

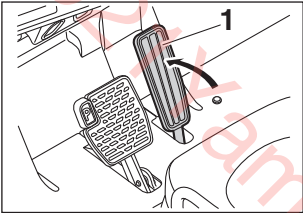
NOTICE

Make sure that the drive select switch is in the "FWD" position, and then move the tow switch to the "TOW" position before towing. After moving the switch from the "RUN" position to the "TOW" position, wait at least 15 seconds before moving the switch again. Failure to do so may lead to drive system damage while towing.

CONTROLS

- TIP**
- To access the tow switch, remove the driver seat cushion.
 - If the vehicle is towed with the tow switch in the “RUN” position, the buzzer will sound. Move the switch to the “TOW” position before towing.

4

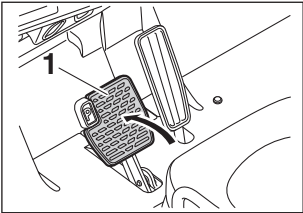


1. Accelerator pedal

ACCELERATOR PEDAL

The accelerator pedal controls the vehicle’s speed.

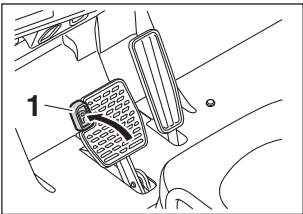
Action	Vehicle Speed
Depress pedal	Increase
Release pedal	Decrease



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.

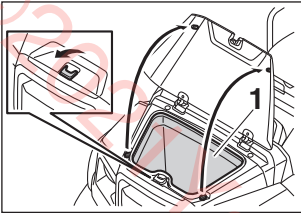
Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

STORAGE COMPARTMENTS

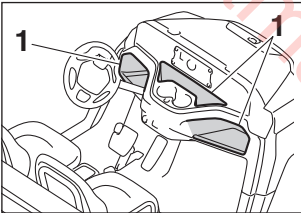
This model is equipped with storage compartments in the locations shown.

Maximum load limit:

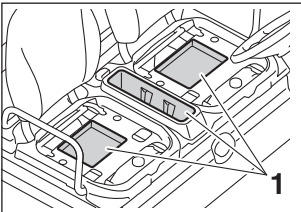
Under-hood storage compartment:
10 kg (22 lb)



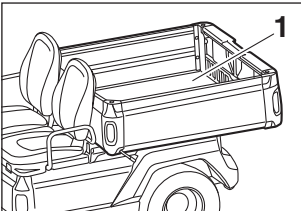
1. Storage compartment



1. Storage compartment



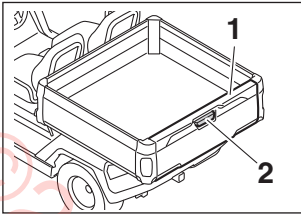
1. Storage compartment



1. Cargo bed

CARGO BED

CONTROLS



1. Tailgate
2. Latch

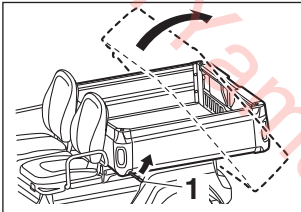
OPENING AND CLOSING THE TAILGATE

To open

Pull the latch, and then lower the tailgate.

To close

Lift the tailgate to the original position, and then push the tailgate to securely lock it in place.



1. Cargo bed release lever

LIFTING AND LOWERING THE CARGO BED

To lift

Pull up the cargo bed release lever, and then slowly lift up the cargo bed until it stops.

To lower

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

Maximum load limit:

363 kg (800 lb)

WARNING

Uncontrolled Movement Hazard

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

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

WARNING

Fall and Thrown Object Hazard

- Do not carry passengers in the cargo bed.

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

WARNING

Crush Hazard

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

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

WARNING

Fire or Explosion Hazard

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

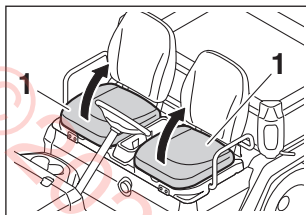
Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

CONTROLS

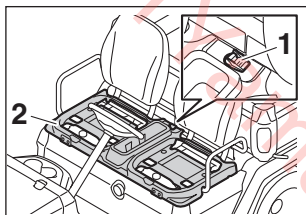
SEAT

To remove

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

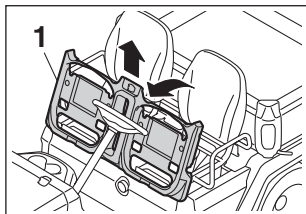


1. Seat cushion



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.

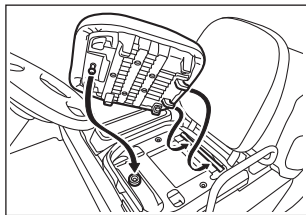


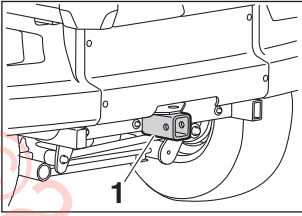
1. Under-seat panel

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.





1. Trailer hitch receiver bracket

TRAILER HITCH RECEIVER BRACKET

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

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 charts on page 31.

BATTERY

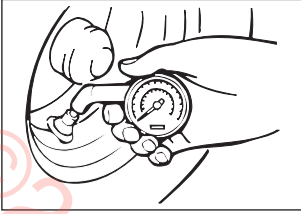
Charge batteries before each use. Refer to the battery charging instructions on page 36.

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.

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.**

PRE-OPERATION CHECKS



TIRE CONDITION

Tire Air Pressure

Check the tire air pressure before operating the utility vehicle.

Tire pressure:

Recommended:

Front: 137 kPa (1.37 kgf/cm², 20 psi)

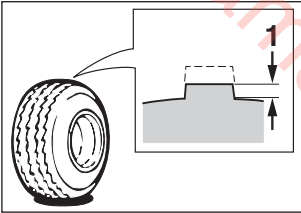
Rear: 151 kPa (1.51 kgf/cm², 22 psi)

Minimum:

Front: 124 kPa (1.24 kgf/cm², 18 psi)

Rear: 151 kPa (1.51 kgf/cm², 22 psi)

5

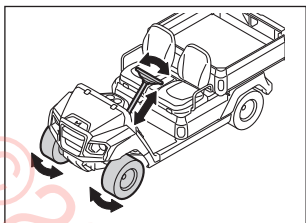


1. Wear limit

Tire Wear Limit

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

PRE-OPERATION CHECKS



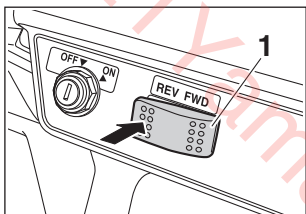
STEERING SYSTEM

Check the steering system for excessive free play by:

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

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

5



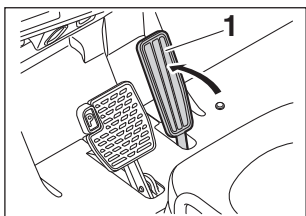
1. Drive select switch

REVERSE ALARM

Check the reverse alarm by moving the drive select switch to “REV” 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.



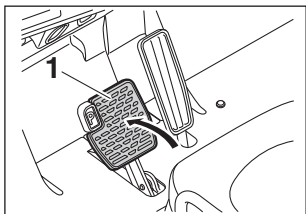
1. Accelerator pedal

Accelerator Pedal



WARNING

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

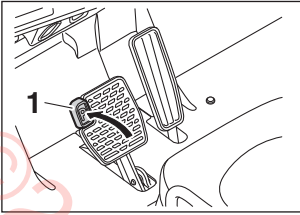


1. Brake pedal

Brake Pedal

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

PRE-OPERATION CHECKS



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.

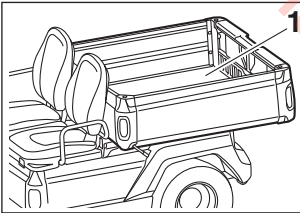
TIP

Release the parking brake by depressing the accelerator pedal.

BODY AND CHASSIS

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

5

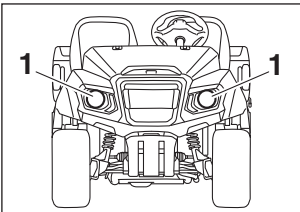


1. Cargo bed

CARGO BED

Make sure the cargo bed is lowered completely and is latched in the down position.

Make sure the tailgate is latched in the closed position.



1. Headlight

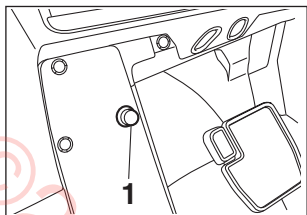
HEADLIGHTS

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 switch to “FWD” for forward, or “REV” for reverse.

NOTICE

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

2. Turn the main switch to “ON.”

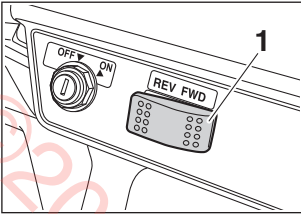
⚠ WARNING

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.

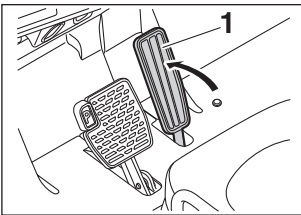
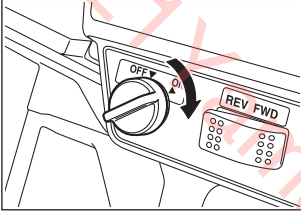
3. Check that your path is clear in the direction you plan to go, and slowly depress the accelerator pedal. The vehicle will start to move.

TIP

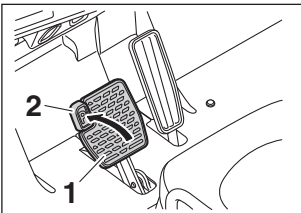
The parking brake automatically releases when the accelerator pedal is depressed.



1. Drive select switch



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.

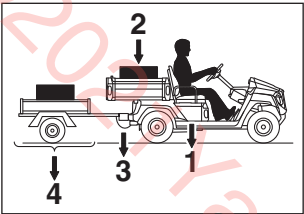
OPERATION

LOADING

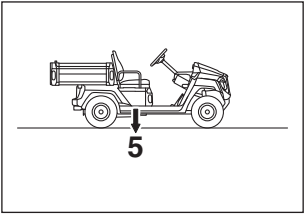
Cargo or a trailer can change the stability and handling of a vehicle.

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

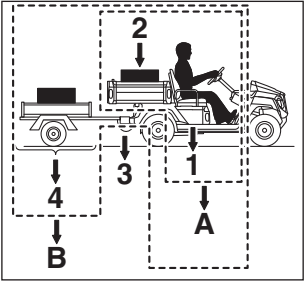
- Never exceed the weight limits shown. An overloaded vehicle can be unstable.



1. Occupant Capacity
2. Maximum Cargo Bed Capacity
3. Maximum Tongue Weight
4. Maximum Towing Capacity



5. Vehicle Weight



- A. Vehicle Rated Capacity
- B. Vehicle Combination Rated Capacity
- C. Maximum Gross Vehicle Weight (5+A)
- D. Maximum Gross Combination Weight (5+B)

1	181 kg (400 lb)
2	363 kg (800 lb)
3	68 kg (150 lb)
4	680 kg (1500 lb)
5	630 kg (1389 lb)
A	544 kg (1200 lb)
B	680 kg (1500 lb)
C	1174 kg (2589 lb)
D	1310 kg (2889 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 to avoid tipping the vehicle.
- Cargo should be as far forward in the bed as possible, and distributed evenly from side to side. Be sure cargo is secured so that it cannot move around during operation.
- Make sure the load does not interfere with controls or your ability to see where you are going.
- Drive more slowly than you would without a load. The more weight you carry, the slower you should go.
- Allow more braking distance. A heavier vehicle takes longer to stop.

- Avoid making sharp turns unless at very slow speeds to avoid tipping or rolling the vehicle.
- Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and handling of the vehicle.

WARNING

Uncontrolled Movement Hazard

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

WARNING

Fall and Thrown Object Hazard

- Do not carry passengers in the cargo bed.

WARNING

Fire or Explosion Hazard

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

MAINTENANCE

PERIODIC MAINTENANCE CHARTS

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

 WARNING

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

NOTICE

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

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

	Remarks	Daily Pre- Operation	20 hours 100 mi 160 km (Every Month)	125 hrs 600 mi 1000 km (Every 6 months)	250 hrs 1200 mi 2000 km (Every Year)	500 hrs 2500 mi 4000 km (Every 2 years)	1000 hrs 5000 mi 8000 km (Every 4 years)	Page
PRE-OP	Charge	S	S	S	S	S	S	36
	Clean battery tops, and check tightness of hold-down plate bolts and terminals	S	S	S	S	S	S	23 34
	Check brake pedal free play and adjust if necessary	CS	CA	CA	CA	CA	CA	41
	Check steering operation	CS	CS	CS	CS	CS	CS	25
	Check tire pressure, tread depth, tire sur- face for damage	CS	CA	CA	CA	CA	CA	24
	Check body and chassis for damage	CS	CS	CS	CS	CS	CS	26
	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	25

* 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.

MAINTENANCE

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

	Remarks	Daily Pre- Operation	20 hours 100 mi 160 km (Every Month)	125 hrs 600 mi 1000 km (Every 6 months)	250 hrs 1200 mi 2000 km (Every Year)	500 hrs 2500 mi 4000 km (Every 2 years)	1000 hrs 5000 mi 8000 km (Every 4 years)	Page
EVERY MONTH	Check electrolyte level		CS	CS	CS	CS	CS	34
	Check for loose or broken connections		CS	CS	CS	CS	CS	*
	Clean / Lube pedal control area		CL					*
EVERY 6 MONTHS	Check all wire insulation for cracks and worn spots			CS	CS	CS	CS	*
	Check brake cables for abrasion and damage, and check operation			CS				41
	Check shock absorbers for oil leaks and damaged springs			CS	CS	CS	CS	*
EVERY YEAR	Perform a discharge test				S	S	S	*
	Apply terminal protectant				S	S	S	—
	Check rear axle bearing play for roughness or free play				CS	CS	CS	*
	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	39
	Adjust parking brake release				CA	CA	CA	43
EVERY 2 YEARS	Replace brake cables					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.

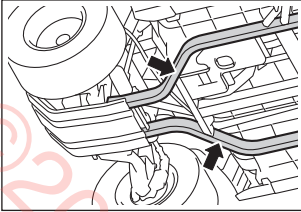
MAINTENANCE

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

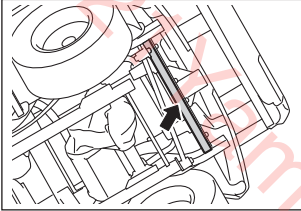
	Remarks	Daily Pre- Opera- tion	20 hours 100 mi 160 km (Every Month)	125 hrs 600 mi 1000 km (Every 6 months)	250 hrs 1200 mi 2000 km (Every Year)	500 hrs 2500 mi 4000 km (Every 2 years)	1000 hrs 5000 mi 8000 km (Every 4 years)	Page
EVERY 4 YEARS	Replace transaxle oil						CS R	*
	Inspect brake shoes and 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.

Front



Rear



RECOMMENDED JACKING POINTS

Jack up the vehicle at the indicated jacking points.

7

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.

MAINTENANCE

To maintain your batteries:

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

NOTICE

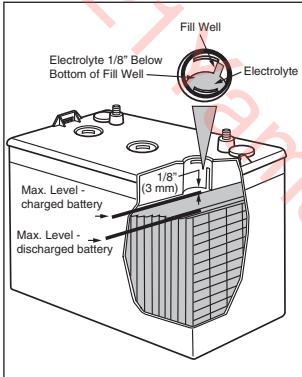
Do not allow cleaning solution to enter battery cells. Serious battery damage can result.

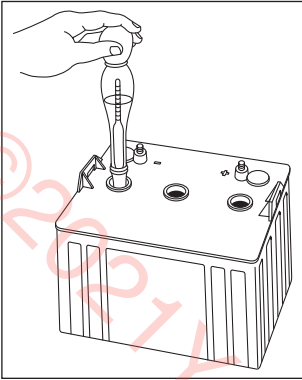
2. Check the fluid level before and after charging.

- **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:** open the vent caps and look inside the fill wells. Add distilled water until the electrolyte level is 3 mm (1/8") below the bottom of the fill well. A piece of rubber can be used safely as a dipstick to help determine this level. Clean, install, and tighten all vent caps.

NOTICE

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





- Using a hydrometer, check the specific gravity of the battery fluid in each cell against the readings on the chart below. 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
°C	°F	
48.9	120	1.244
43.3	110	1.248
37.8	100	1.252
32.2	90	1.256
26.7	80	1.260
21.1	70	1.264
15.6	60	1.268
10.0	50	1.272
4.4	40	1.276
-1.1	30	1.280

BATTERY CHARGING

WARNING

Read and understand the owner's manual provided with your utility vehicle's battery charger before charging batteries. Death or serious personal injury can result from failing to comply with the instructions and warnings in this manual.

WARNING

Explosive hydrogen gas is produced while batteries are being charged. Only charge batteries in well-ventilated areas (a minimum of five air changes per hour is recommended). Death or serious personal injury can result from failing to comply with the instructions and warnings in this manual.

MAINTENANCE

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.

NOTICE

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 main switch to "OFF".

NOTICE

Always put the tow switch in the "TOW" position before charging the batteries or damage to the electrical system may result.

2. Remove the driver seat cushion, and then move the tow switch to the "TOW" position.

NOTICE

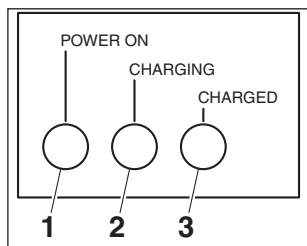
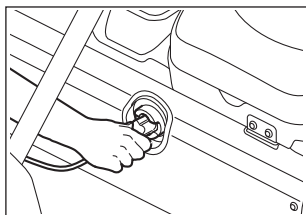
Use only battery chargers that are rated for use with 48-volt Yamaha utility vehicles. Otherwise, serious battery damage can result.

Thoroughly read and understand the user manual supplied with your 48-volt charger.

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

⚠ WARNING

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



1. Red Power ON LED
2. Yellow Charging LED
3. Green Charged LED

4. When the charger is plugged into the AC power, the Power ON LED illuminates continuously.
5. If any of the LEDs blink for several minutes after the charger is turned on, there is a problem with the batteries or the charger. Contact your Yamaha Dealer.
6. During normal charging, the Charging LED continually illuminates.
7. The Charged LED illuminates automatically when the batteries reach full charge.

- After the Charged LED is illuminated, disconnect the DC output plug from the DC charger receptacle by grasping the plug body and pulling the plug straight out of the receptacle.

BATTERY INSTALLATION

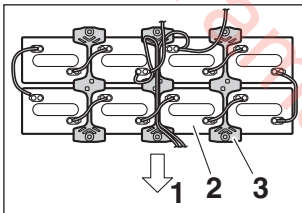
WARNING

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.

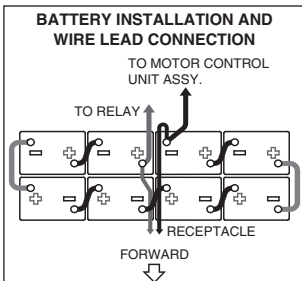
- Install the battery hold-down plates by installing the bolts, and then tighten the bolts to the following torque:

Battery hold-down plate bolt torque:

6 N·m (0.6 kgf·m, 4.4 lb·ft)



- Forward
- Battery
- Battery hold-down plate



- Connect the wire leads, and then tighten the nuts to the following torque:

Nut torque:

10 N·m (1.0 kgf·m, 7.4 lb·ft)

WARNING

When installing batteries:

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

NOTICE

Do not over-tighten the battery hold-down plate bolts. Excessive force will damage the battery casing.

MAINTENANCE

FUSE REPLACEMENT

WARNING

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

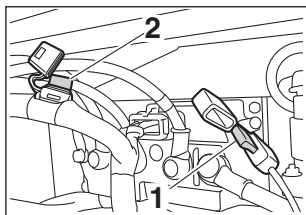
NOTICE

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

TIP

To access the fuse holders, lift the cargo bed up.

Pull the fuse out and inspect it. Replace the fuse if necessary.



1. Main fuse (10 A)
2. MCU fuse (3.0 A)

TRANSAXLE OIL

To check transaxle oil level:

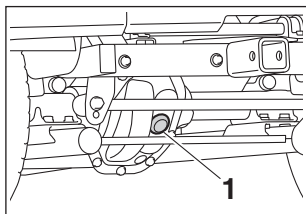
TIP

For information on the jacking points, see page 34.

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.



1. Oil level plug

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

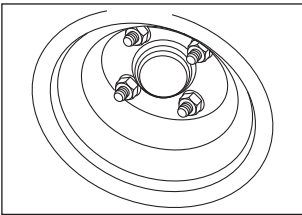
TIP

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

7

WARNING

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



WHEEL REPLACEMENT

To remove and install a wheel on your utility vehicle:

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

Wheel nut tightening torque:

100 N·m (10 kgf·m, 74 lb·ft)

MAINTENANCE

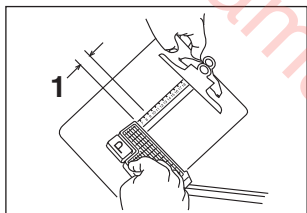
BRAKE ADJUSTMENT

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.

7



1. Brake pedal free play

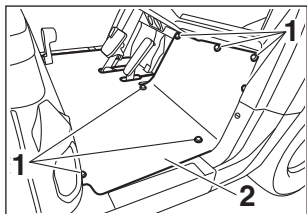
BRAKE PEDAL FREE PLAY ADJUSTMENT

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.

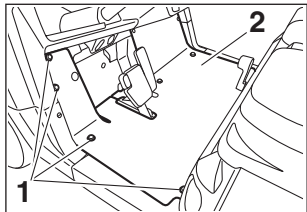
Brake pedal free play:
20-25 mm (0.79-0.98 in)

To adjust the brake pedal free play:

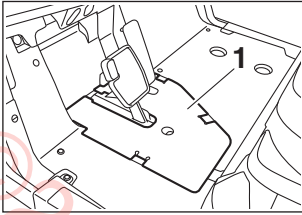
1. Remove the floor mat by removing the quick fasteners.



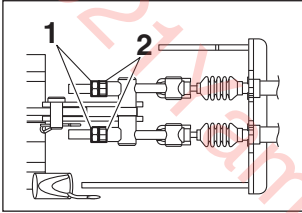
1. Quick fastener
2. Floor mat



1. Quick fastener
2. Floor mat



1. Service lid



1. Locknut
2. Adjusting nut

2. Remove the service lid.

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.

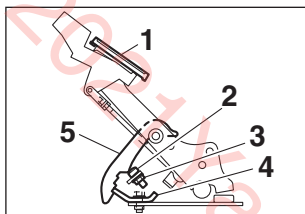
4. Install the service lid.
5. Install the floor mat by installing the quick fasteners.

MAINTENANCE

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

HEADLIGHTS

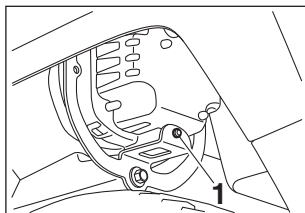
This model is equipped with LED-type headlights.

If a headlight does not come on, check the fuses and then have a Yamaha dealer check the vehicle.

ADJUSTING A HEADLIGHT

NOTICE

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



1. Adjusting screw

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.

CHASSIS PREPARATION

1. Verify the tire pressure is set to:
 - Front: 137 kPa (1.37 kgf/cm², 20 psi)
 - Rear: 151 kPa (1.51 kgf/cm², 22 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. Recharge the batteries and check the fluid levels at least once a month.

NOTICE

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

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

SPECIFICATIONS

GENERAL SPECIFICATIONS

Items	YUM2E
Dimensions:	
Overall length	3030 mm (119.4 in)
Overall width	1255 mm (49.3 in)
Overall height (steering height)	1235 mm (48.5 in)
Height of floor	330 mm (13.1 in)
Wheelbase	1960 mm (77.2 in)
Tread:	
Front	1025 mm (40.3 in)
Rear	1020 mm (40.2 in)
Cargo bed size:	
Overall length	1045 mm (41.1 in)
Overall width	1170 mm (45.9 in)
Overall height	302 mm (11.9 in)
Minimum ground clearance	115 mm (4.5 in)
Weight:	
Dry weight (without batteries)	401 kg (884 lb)
Performance:	
Factory speed setting	28 km/h (17.5 mph)
Maximum speed	31 km/h (19.5 mph)
Minimum turning radius	4.0 m (13.1 ft)
Seating capacity	One occupant per seat
Vehicle combination rated capacity	680 kg (1500 lb)
Occupant capacity	181 kg (400 lb)
Maximum cargo bed capacity	363 kg (800 lb)
Maximum tongue weight	68 kg (150 lb)
Maximum towing capacity	680 kg (1500 lb)
Gross vehicle weight	1174 kg (2589 lb)

TRANSMISSION

Items	YUM2E
Differential/reduction gear	Secondary reduction system helical gear Secondary reduction ratio: Forward 11.48:1; Reverse 15.38:1 Differential type bevel gear Lubricant/capacity SAE 90 gear oil/355 cc (355 mL, 0.38 US qt)

BATTERIES

Items	YUM2E
Battery	Trojan - Golf Car Type T-105 (8×6volt) RC: minimum 117 min

CHASSIS

Items	YUM2E
Suspension:	
Front	Independent (oil-over strut type)
Rear	Pivoted trailing arm (mono-link)
Lighting:	
Bulb voltage, wattage × quantity:	
Headlight	LED
Steering system:	
Type	Rack and Pinion
Steering angle (L.H.)	1.85 turn
Steering angle (R.H.)	1.85 turn
Brakes:	
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	20–25 mm (0.79–0.98 in)
Parking brake:	
Type	Foot type; parking brake with automatic release.

SPECIFICATIONS

Items	YUM2E
Wheel:	
Tire size:	
Front	20 × 10.00–10/4-ply turf type
Rear	20 × 10.00–10/4-ply turf type
Rim size	7.00–9.96 (Offset 1)
Tire pressure:	
Recommended:	
Front	137 kPa (1.37 kgf/cm ² , 20 psi)
Rear	151 kPa (1.51 kgf/cm ² , 22 psi)
Minimum:	
Front	124 kPa (1.24 kgf/cm ² , 18 psi)
Rear	151 kPa (1.51 kgf/cm ² , 22 psi)

A

Accelerator pedal	14, 17
-------------------------	--------

B

Batteries	14
Battery care	34
Battery charging	36
Battery gauge	14, 15
Battery installation	38
Battery preparation	44
Brake adjustment	41
Brake pedal	14, 17
Brake pedal free play adjustment	41

C

Cargo bed	14, 18
Chassis preparation	44
Cup holder	14

D

DC charger receptacle	14
Drive select switch	14, 16

F

Features	14
Fuse replacement	39
Fuses	14

H

Headlight, adjusting	43
Headlights	43
Horn switch	14, 16

INDEX

I

Important labels..... 3

J

Jacking points 34

L

Light switch 14, 15
Loading..... 29
Low battery level warning light..... 14

M

10 Main switch 14, 15

P

Parking brake pedal 14, 17
Parking brake release adjustment..... 43
Periodic maintenance charts..... 31
Pre-operation checks 23

S

Seat 21
Specifications..... 45
Starting 28
Stopping..... 28
Storage compartment 14, 18

T

Tailgate 14, 19
Tow switch..... 14, 16
Trailer hitch receiver bracket 14, 22

INDEX

Transaxle oil.....	39
Transaxle oil level plug	14

W

Wheel replacement.....	40
------------------------	----

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CONTENTS

1 WARRANTY

2 IMPORTANT LABELS

3 SAFETY INFORMATION

4 CONTROLS

5 PRE-OPERATION CHECKS

6 OPERATION

7 MAINTENANCE

8 STORAGE

9 SPECIFICATIONS

10 INDEX

