



OWNER'S / OPERATOR'S MANUAL



READ THIS MANUAL CAREFULLY!
It contains important safety information.

YDRE SVS

Concierge 4E 48 Volt Vehicle

INTRODUCTION

Congratulations on your purchase of a Yamaha four-passenger vehicle. This manual contains information you will need for proper operation, maintenance, and care of your vehicle. A thorough understanding of these simple instructions will help you to obtain maximum enjoyment from your new Yamaha.

If you have any questions about the operation or maintenance of your vehicle, please consult a Yamaha dealer.

YAMAHA GOLF-CAR COMPANY

**FOUR-PASSENGER
48 VOLT VEHICLE
OWNER'S/OPERATOR'S
MANUAL**

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1st edition

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JD4-F8199-48

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 four-passenger vehicle or other property.

TIP

A **TIP** provides key information to make procedures easier or clearer.

TIP

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

WARNING

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

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WARRANTY

LIMITED 2-YEAR UTILITY AND TRANSPORTATION VEHICLE LIMITED WARRANTY

Yamaha Golf-Car Company hereby warrants that any new Yamaha utility vehicle or any new Yamaha Golf-Car Company transportation or specialty vehicle purchased from an authorized Yamaha golf car dealer 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 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 vehicle'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.
- Modifications or alterations that affect the car's condition, operation, performance, or durability, or which makes the car serve a purpose other than use as a utility or transportation vehicle.
- Damage due to improper transportation.
- Acts of God, i.e. lightning, hail damage, flooding, fire, etc.

WARRANTY COVERAGE:

Year 1: The first year of warranty shall cover the entire vehicle except for the Specific Exclusions below.

Year 2: The second year of the warranty covers only the electric motor, speed controller, battery charger, and transaxle on electric powered vehicles and the engine, clutch system (except drive belt), and transaxle on gasoline powered vehicles.

SPECIFIC EXCLUSIONS: Specific exclusions from this warranty shall include any parts replaced due to normal wear or routine maintenance, including oil and air filter elements, tire wear, spark plugs, starter and clutch drive belts. Any charges incurred in transporting a vehicle or charger to and from an authorized Yamaha golf car dealer for service or in performing field service are also excluded from this warranty. Also excluded are electric car batteries, which are covered under a separate warranty.

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

- Operate and maintain the vehicle and charger as specified in the appropriate Owner's/Operator's Manual;
- 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 FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS AND TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY YAMAHA GOLF-CAR COMPANY AND EXCLUDED FROM THIS WARRANTY.

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

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

Yamaha Golf-Car Company,
NEWNAN, GEORGIA 30265-1320

EFFECTIVE DATE: 6/1/13

LIT-13710-U3-13

WARRANTY

1

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

YAMAHA Golf-Car Company (herein referred to as "YGC") hereby warrants to the Original Retail Purchaser or Lessee of a YAMAHA YDRE golf car or PTV, U-MAX or Adventurer utility vehicle, or YAMAHA transportation or specialty vehicle purchased from an Authorized YGC Dealer, that the Trojan batteries charged with a YAMAHA supplied battery charger will be free from defects in materials and workmanship, and will provide "36-hole performance" for a period of four-years or "1,000 rounds" from the date of purchase, whichever event occurs first, subject to the terms and conditions contained herein.

This limited warranty covers defects in materials and workmanship only for a period of four-years or "1,000 rounds", as applicable, from date of purchase, whichever event occurs first. The terms of this FOUR-YEAR LIMITED WARRANTY shall be to furnish one or more replacement batteries within the four-year period or before 20,000 amp-hours are discharged, whichever event occurs first, as determined by YGC using the information recorded and stored in the Genius controller.

- This warranty only applies to factory installed Trojan battery sets charged with a Yamaha supplied battery charger.
- "1,000 rounds" means 20,000 amp-hours discharged, as recorded in the Genius controller.
- 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.
- Replacement batteries may be of a different brand or capacity, but are warranted to provide 36-hole performance for the remainder of the 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 batteries 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 SUBJECT 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.

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.

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, which is identical or reasonably equivalent to the warranted product at no cost to the purchaser during the limited warranty period, except for labor or transportation expenses.

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 warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

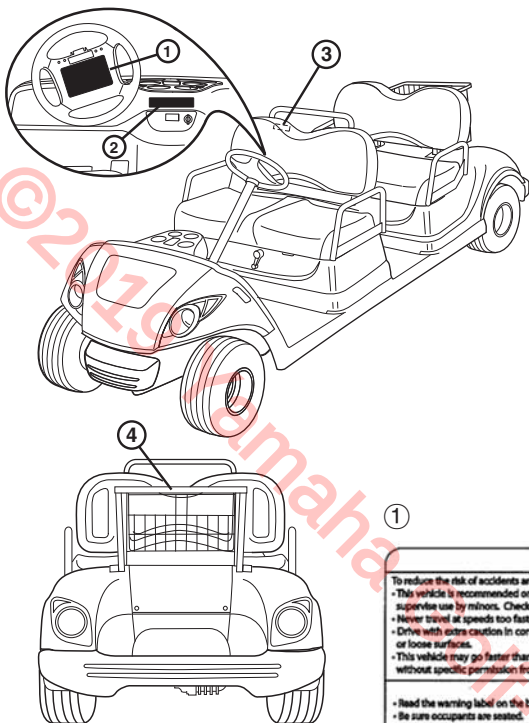
For further information or to submit a warranty claim, contact your local Yamaha Golf-Car Dealer or contact Yamaha Golf-Car Company toll free at (877) 811-8250.

Yamaha Golf-Car Company,
NEWNAN, GEORGIA 30265-1320
EFFECTIVE DATE: 06/01/13

LIT-13710-EL-11

IMPORTANT LABELS

2



Y-1538B

SAFETY AND INSTRUCTION LABELS

WARNING

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

WARNING

To reduce the risk of accidents and injury or DEATH:

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

OPERATING INSTRUCTIONS

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



ATTENTION

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

YAMAHA

JCO-K7762-00

2

WARNING

To reduce the risk of accidents and injury or DEATH:

- Read the label located on the steering wheel before operation.
- Operate only when authorized and only in designated areas.
- Operate from driver's seat only.
- This vehicle is restricted to 2 occupants per bench seat.
- Do not start vehicle until all occupants are seated.
- Remain fully seated and hold on when in motion.
- Keep entire body inside vehicle.
- Drive slowly in turns.

- Drive slowly straight up and down slopes.
- Set parking brake before leaving vehicle.
- Turn main switch to "OFF" and remove key when not in use.
- Do not operate while under the influence of alcohol or drugs.
- Maximum loading: 425 lbs (191 kg) per bench seat, 130 lbs (60 kg) in bagged.

REV

FWD

OFF

ON

ON

JCO-K7762-00

3

WARNING

DEATH OR SEVERE PERSONAL INJURY CAN RESULT FROM FAILURE TO FOLLOW THESE INSTRUCTIONS

- Vehicle capacity : 2 occupants per seat
- Remain seated and hold on when in motion.
- Keep entire body inside vehicle.

YAMAHA

JCO-K7762-00

4

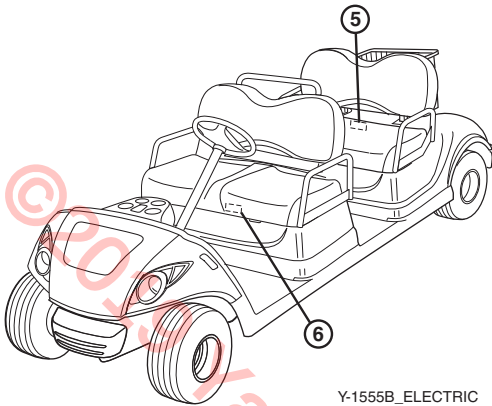
WARNING

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

YAMAHA

JCO-K7762-00

IMPORTANT LABELS



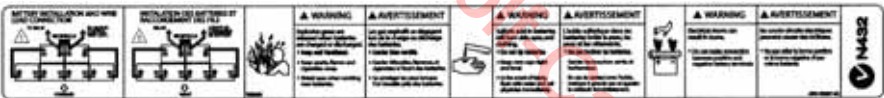
Y-1555B_ELECTRIC

⚠ SAFETY AND INSTRUCTION LABELS

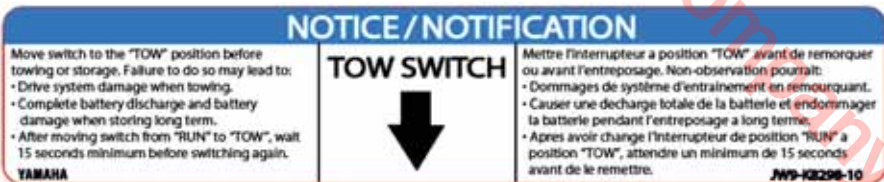
⚠ WARNING

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

⑤

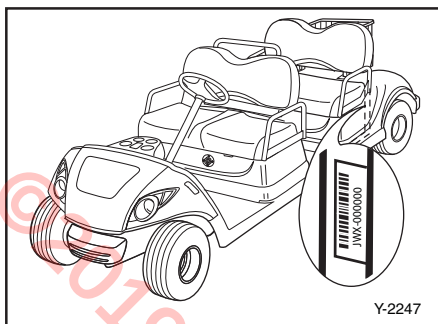


⑥



IMPORTANT LABELS

2



FOUR-PASSENGER VEHICLE SERIAL NUMBER

The 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 Golf-Car Company dealer.

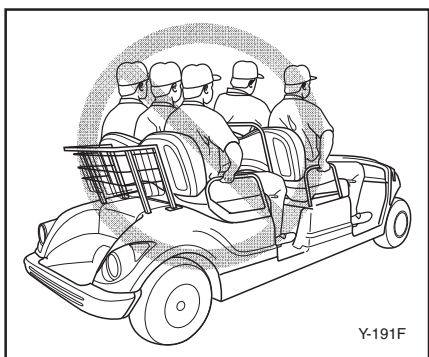
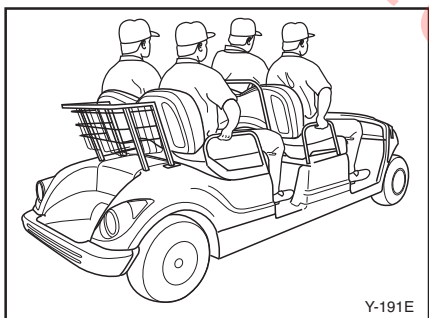
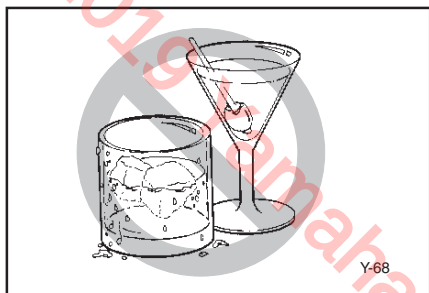


OPERATOR SAFETY

Yamaha vehicles are designed to be simple to operate. However, be sure to observe the following:

BEFORE USING THE FOUR-PASSENGER VEHICLE

3

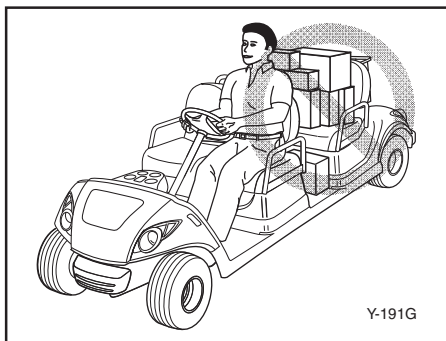
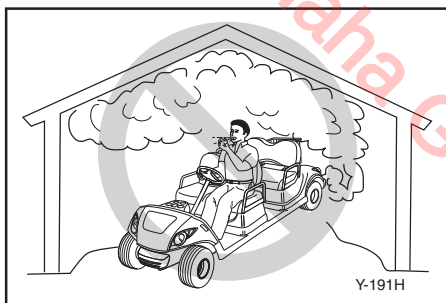
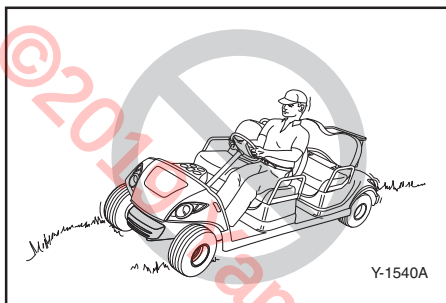


- Read this Owner's/Operator's manual and all safety and instruction labels on the vehicle before operating.
- Perform the pre-operation checks found in Section 6 of this manual.
- Only authorized people should drive the vehicle, from the driver's side only, and only in designated areas.
- Do not allow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



OPERATOR SAFETY

3



WHILE OPERATING THE FOUR-PASSENGER VEHICLE

- Keep your entire body inside the vehicle, remain seated, and hold on when the vehicle is in motion.
- Do not start the vehicle until all occupants are seated.
- Keep your hands on the steering wheel and your eyes on the path ahead.
- Use extra care in congested areas or when backing up. Always back up slowly, and watch carefully.
- Avoid starting or stopping abruptly.
- Vary the speed of the vehicle to match the terrain of the course.
- Avoid turning the steering wheel too sharply at higher speeds.
- Always drive slowly straight up or straight down slopes – never at an angle.
- All occupants should remain inside the vehicle, remain seated, and hold on when the vehicle is in motion.
- Do not run the engine indoors. Exhaust gas is poisonous.
- Do not start the vehicle until all occupants are seated and holding on, with their entire bodies inside the vehicle.
- Do not use rear seat for cargo or luggage storage. Rear seat is to be used for one- or two-person occupancy only.
- Do not make any modification or addition which affects capacity or safe operation, or make any changes not in accordance with the owner's/operator's manual.



SAFETY CONSIDERATIONS

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

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

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

DRIVER QUALIFICATIONS

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

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

WARNING

Do not operate four-passenger vehicles when under the influence of alcohol or drugs. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

SAFETY SURVEY

Perform safety surveys regularly to identify hazardous areas where vehicles should not be operated.

HAZARD PREVENTION

The following hazards must be made safe:

Steep Grades – Where steep grades exist, restrict vehicles to designated pathways when possible. In addition, identify steep grades with a suitable warning like:

WARNING

Descend steep grades slowly with foot on brake. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

Sharp Turns, Blind Corners and Bridge Approaches – Chain or rope off these potentially hazardous areas or identify them with a suitable warning describing the nature of the hazard and the proper precautions to be taken to avoid the hazard.



SAFETY CONSIDERATIONS

4

Wet Areas – Wet grass may cause a vehicle to lose traction and may affect stability. Reduce speed in wet areas or during periods of inclement weather.

Loose Terrain – Loose terrain may cause a vehicle to lose traction and may affect stability. Repair loose terrain, chain or rope off these areas, or identify loose terrain with a suitable warning.

Four-Passenger Vehicle and Pedestrian Interference – Reroute vehicle traffic or pedestrian traffic in congested areas wherever possible to prevent accidents.

MAINTENANCE REQUIRED FOR FOUR- PASSENGER VEHICLE SAFETY

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

- **Preventative Maintenance.** Perform all scheduled maintenance in accordance with manufacturer's recommendations to provide the user with a safe, properly operating vehicle.

- **Personnel.** Allow only qualified, trained and authorized personnel to inspect, adjust and maintain the vehicle.
- **Parts and Materials.** Use only replacement parts and materials recommended by the manufacturer.
- **Ventilation.** Properly ventilate all maintenance and storage areas in accordance with applicable fire codes and ordinances to avoid fire hazards. Ventilation is also required to remove hydrogen gas from the vehicle storage areas during the battery charging process.

For electric powered 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, a minimum of five air changes per hour is recommended. Consult applicable fire and safety codes for the specific ventilation levels requirement, as well as requirements for the use of explosion proof electrical apparatus.



SAFETY CONSIDERATIONS

SAFETY PRECAUTIONS DURING MAINTENANCE

When performing maintenance, follow all safety instructions contained in the manufacturer's operation and service manuals, as well as the following safety procedures:

- Properly immobilize the four-passenger vehicle before beginning any maintenance.
- Properly block chassis before working underneath vehicle.
- Avoid fire hazards, and have appropriate fire protection equipment available.
- Before performing any maintenance, disable the vehicle's electrical system in accordance with the manufacturer's instructions.
- Use only properly insulated tools when working on electrically powered vehicles or around batteries.
- Maintain all safety devices, including brakes, steering mechanisms, warning devices and governors, in a safe operating condition. Do not modify these safety devices as supplied by the manufacturer.

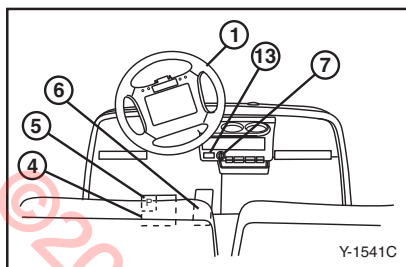
- After each maintenance or repair, the vehicle must be driven by a qualified, trained and authorized person – in an area free of pedestrian traffic – to ensure proper operation and adjustment.
- Record all maintenance performed in a maintenance record log by date, name of person performing maintenance and type of maintenance. Periodically inspect maintenance log to ensure accurate and complete entries.
- Provide operator comment cards to assist in identifying non-periodic maintenance needs for specific four-passenger vehicles.
- Maintain in a legible condition all nameplates, warnings and instructions provided by the manufacturer.
- If new nameplates, warnings or instructions are needed, contact your Yamaha Golf-Car Company dealer.

STORAGE AND BATTERY CHARGING

Take the following precautions to ensure maintenance worker safety:

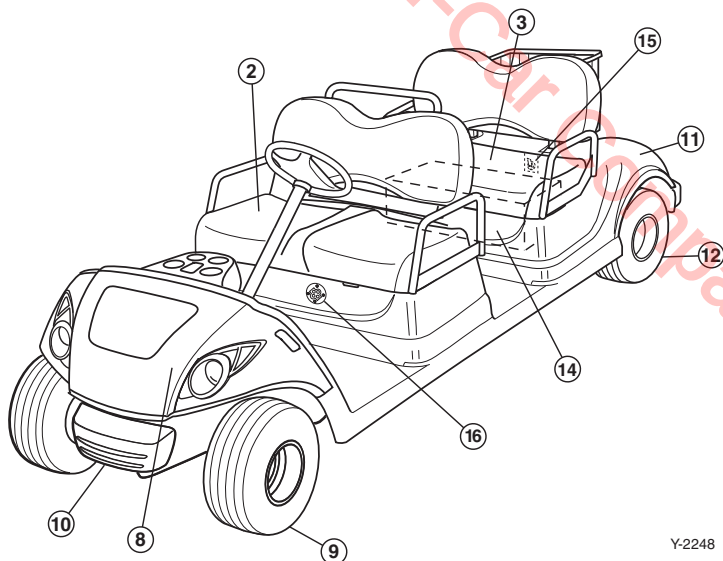
- Supervise the storage and handling of liquid fuels in accordance with applicable fire and safety requirements.
- Only use battery charging facilities and procedures that are in accordance with applicable ordinances and regulations.

CONTROLS



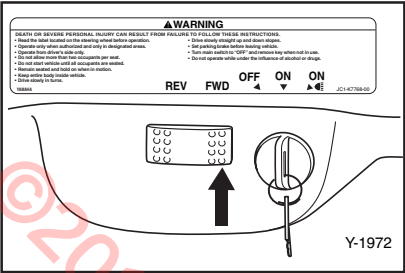
FEATURES

- ① Steering wheel
- ② Front seat
- ③ Rear seat
- ④ Brake pedal
- ⑤ Parking brake pedal
- ⑥ Accelerator pedal
- ⑦ Main switch
- ⑧ Front body
- ⑨ Front tire
- ⑩ Front bumper
- ⑪ Rear body
- ⑫ Rear tire
- ⑬ Drive selector switch
- ⑭ Batteries
- ⑮ Tow switch
- ⑯ DC charge receptacle



Y-2248

CONTROLS



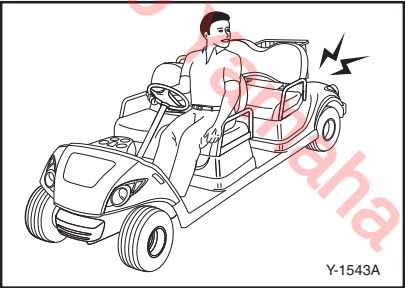
DRIVE SELECT SWITCH

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

Switch Position	Car Movement
FWD	FORWARD
REV	REVERSE

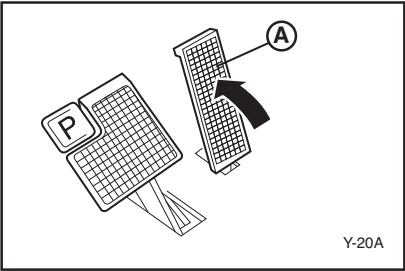
TIP

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



ACCELERATOR PEDAL

The accelerator pedal controls the vehicle's speed.

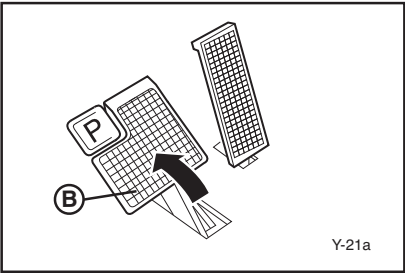


Action	Vehicle Speed
Depress pedal	Increase
Release pedal	Decrease

Ⓐ Accelerator pedal

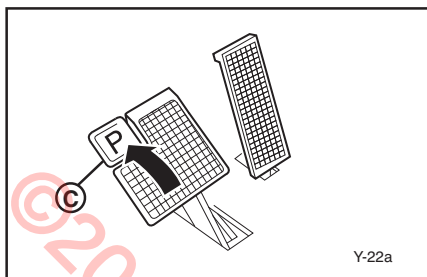
BRAKE PEDAL

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



Ⓑ Brake pedal

CONTROLS



PARKING BRAKE PEDAL

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

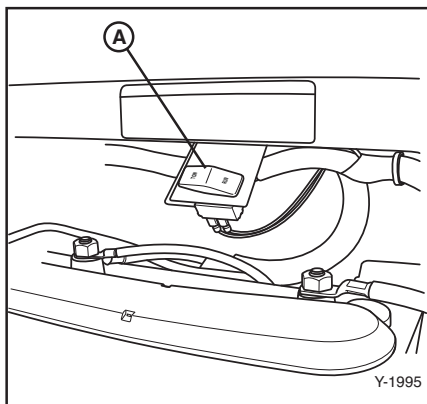
© Parking brake pedal

TIP

Release the parking brake by depressing the accelerator pedal.

⚠ WARNING

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



TOW SWITCH

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

Ⓐ Tow switch

NOTICE

Ensure that the “Drive Select Switch” is in the “FWD” position and then move the “TOW Switch” to “TOW” before towing.

After moving switch from “RUN” to “TOW,” wait 15 seconds minimum before switching again. Failure to do so may lead to drive system damage while towing.

PRE-OPERATION CHECKS

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

⚠ WARNING

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 vehicle from moving. Death or serious personal injury can result from failing to comply with the warning labels in this manual.

6

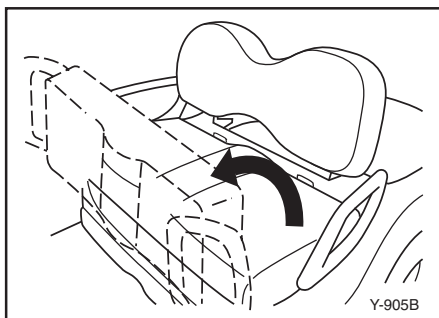
PRE-OPERATION CHECKLIST

Before each use check the following:

- ✓ Batteries
- ✓ Tire condition
- ✓ Steering system
- ✓ Reverse alarm
- ✓ Pedal operation
- ✓ Body and chassis

SEAT

Open the rear seat for checking and servicing.



PRE-OPERATION CHECKS

BATTERY

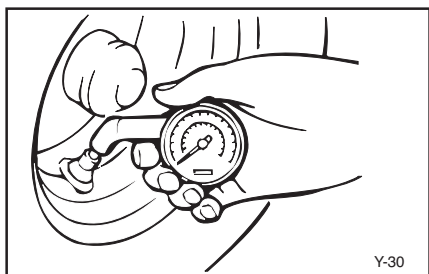
Charge batteries before each use. See charging steps in Chapter 8, *Maintenance*.

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.**

6



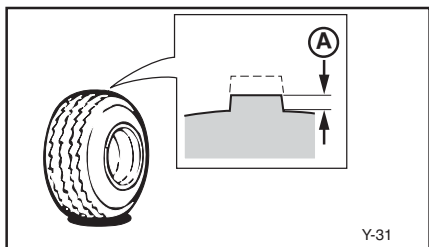
TIRE CONDITION

Tire Air Pressure

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

Tire pressure:

137-160 kPa, 1.4-1.6 kgf/cm²
(20-23 psi)

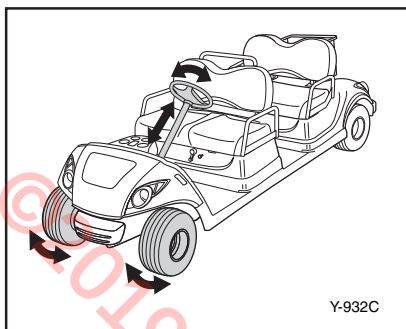


Tire Wear Limit

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

Ⓐ Wear limit

PRE-OPERATION CHECKS

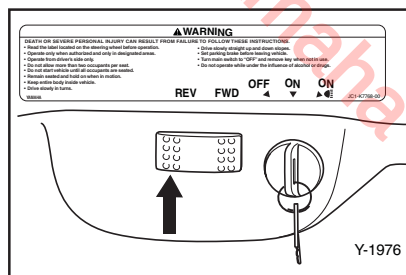


STEERING SYSTEM

Check the steering system for excessive freeplay 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 freeplay, or hear rattling sounds which may indicate loose steering components, consult a Yamaha dealer.

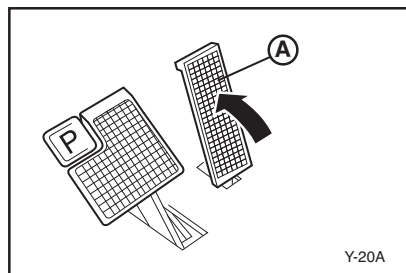


REVERSE ALARM

Check the reverse alarm by moving the drive select 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.



Accelerator Pedal

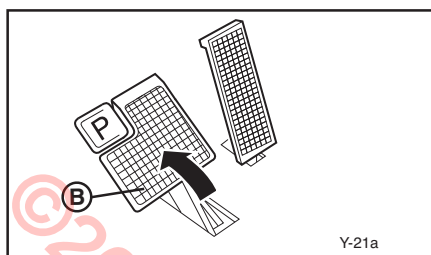
⚠ WARNING

Before checking operation of the accelerator pedal, be sure the main switch is in the “OFF” position. Death or serious personal injury can result from failing to comply with the warning labels in this manual.

Make sure the accelerator pedal operates smoothly.

- Ⓐ Accelerator pedal

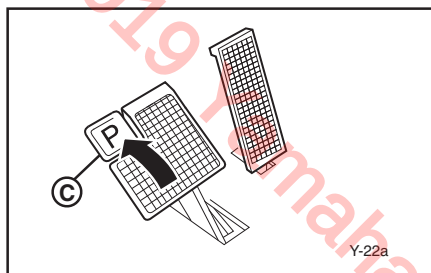
PRE-OPERATION CHECKS



Brake Pedal

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

- Ⓑ Brake pedal



Parking Brake Pedal

Make sure the parking brake pedal locks in place with a positive click, and releases when the accelerator pedal is pressed.

- Ⓒ Parking brake pedal

TIP

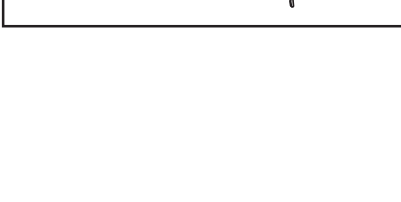
Release the parking brake by depressing the accelerator pedal.

6

BODY AND CHASSIS

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

OPERATION



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 four-passenger vehicle is moving. Transmission damage can result.

2. Turn the main switch to “ON.”

WARNING

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

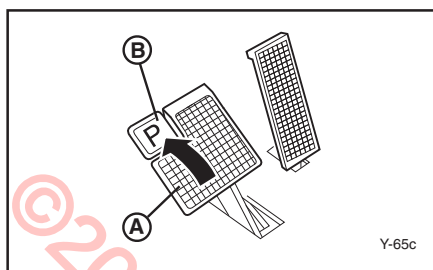
3. Check that your path is clear in the direction you plan to go, and slowly depress the accelerator pedal. The vehicle will start to move.

① Accelerator pedal

TIP

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

OPERATION



STOPPING

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

- Ⓐ Brake pedal

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

- Ⓑ Parking brake pedal

NOTICE

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

MAINTENANCE

PERIODIC MAINTENANCE CHARTS

Regular maintenance is required for the best performance and safe operation of your four-passenger vehicle.

⚠ WARNING

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

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

	Remarks	Daily Pre- Operation	40 rounds 20 hours 100 miles 160 kms (Every Month)	250 rounds 125 hrs 600 mls 1000 kms (Every 6 months)	500 rounds 250 hrs 1200 mls 2000 kms (Every Year)	1000 rounds 500 hrs 2500 mls 4000 kms (Every 2 years)	2000 rounds 1000 hrs 5000 mls 8000 kms (Every 4 years)	Page
PRE-OP	Charge	S	S	S	S	S	S	4-3/8-5/ 8-6
	Clean battery tops, check for tightness of hold-down screws and terminals	S	S	S	S	S	S	6-2
	Check brake pedal freeplay and adjust if necessary	CS	CA	CA	CA	CA	CA	6-3/6-4/ 8-11
	Check steering operation	CS	CS	CS	CS	CS	CS	6-3
	Check tire pressure, tread depth, tire surface for damage	CS	CA	CA	CA	CA	CA	6-2
	Check body and chassis for damage	CS	CS	CS	CS	CS	CS	6-4
	Check tightness of all bolts, nuts, screws and rivets	CS	CS	CS	CS	CS	CS	*
	Check reverse alarm operation	CS	CS	CS	CS	CS	CS	6-3
EVERY MONTH	Check electrolyte level		CS	CS	CS	CS	CS	8-3/8-4
	Check for loose or broken connections		CS	CS	CS	CS	CS	*
	Check pedal operation		CS					—
EVERY 6 MONTHS	Check all wire insulation for cracks and/or worn spots			CS	CS	CS	CS	*
	Check shock absorbers for oil leaks and damaged springs			CS	CS	CS	CS	*

* Items without a page number reference should be serviced by a Yamaha dealer or other qualified mechanic. This manual does not contain these procedures. They are contained in the Service Manual.

MAINTENANCE

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

	Remarks	Daily Pre- Opera- tion	40 rounds 20 hours 100 miles 160 kms (Every Month)	250 rounds 125 hrs 600 mls 1000 kms (Every 6 months)	500 rounds 250 hrs 1200 mls 2000 kms (Every Year)	1000 rounds 500 hrs 2500 mls 4000 kms (Every 2 years)	2000 rounds 1000 hrs 5000 mls 8000 kms (Every 4 years)	Page
EVERY YEAR	Perform a discharge test				S	S	S	*
	Apply Terminal protectant				S	S	S	—
	Check rear axle bearing play for roughness or freeplay				CS	CS	CS	*
	Check steering knuckle bushing freeplay / Adjust wheel alignment				CA	CA	CA	*
	Check wheel nut tightness, front wheel bearing play				CS	CS	CS	8-10/*
	Check transaxle oil level and inspect for leakage				CS	CS	CS	8-9
	Check pedal stop operation and adjust if necessary				CA	CA	CA	*
EVERY 2 YEARS	Replace transaxle oil					R		*
EVERY 4 YEARS	Inspect internal wet brake and replace pads if necessary						CA	*

* 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

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.

Four 12-volt deep-cycle batteries provide power for your vehicle and must be properly maintained and recharged for maximum performance and service life.

To maintain your batteries:

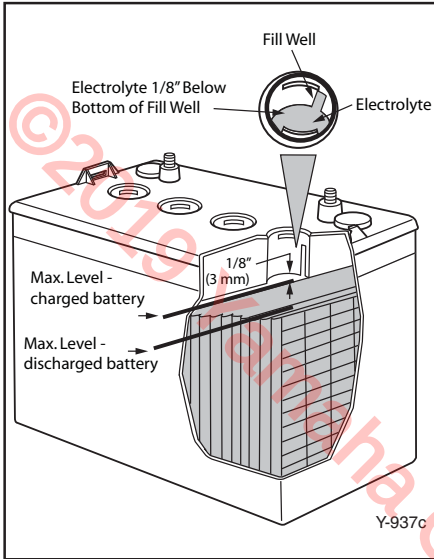
1. Clean the tops of the batteries with a solution of baking soda and water, as necessary, to remove corrosion.

NOTICE

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

2. Check the fluid level before and after charging.

MAINTENANCE



● **Before charging:** Only add distilled water if fluid is below the top of the plates, and then add just enough to cover plates.

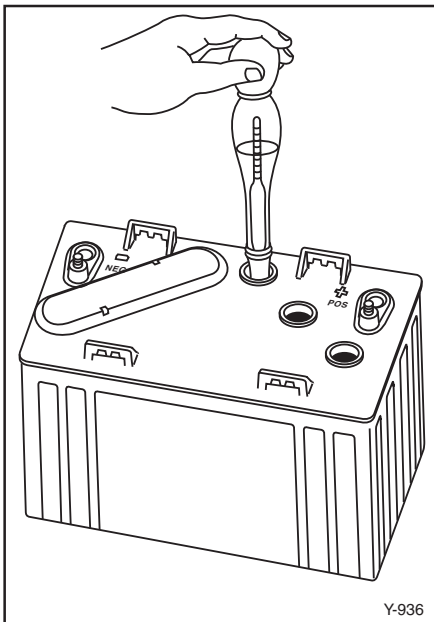
● **After charging:** Open the vent caps and look inside the fill wells. Add distilled water until the electrolyte level is 3 mm (1/8") below the bottom of the fill well. A piece of rubber can be used safely as a dipstick to help determine this level. Clean, replace and tighten all vent caps.

NOTICE

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 chart below. Consult a Yamaha dealer if any low readings are found, or if readings vary more than one point between cells.

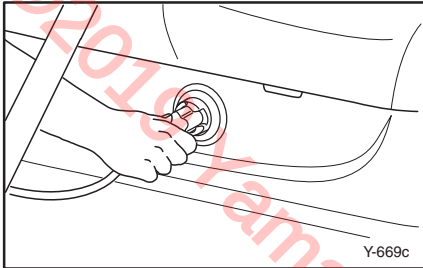
Temperature		Satisfactory Uncorrected Hydrometer Reading
°C	°F	
48.9	120	1.244
43.3	110	1.248
37.8	100	1.252
32.2	90	1.256
26.7	80	1.260
21.1	70	1.264
15.6	60	1.268
10.0	50	1.272
4.4	40	1.276
-1.1	30	1.280



MAINTENANCE

NOTICE

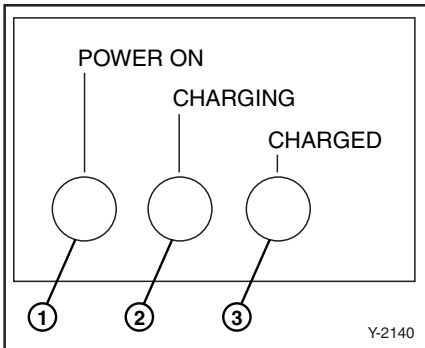
Use only battery chargers that are rated for use with 48-volt Yamaha vehicles. Serious battery damage can result. Thoroughly read and understand the user manual supplied with your 48-volt charger.



3. With the charger properly connected and grounded (see charger's owner's manual), insert the DC output 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. Death or serious personal injury can result from failing to comply with the warning labels in this manual.



- 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.

MAINTENANCE

- 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. Death or serious personal injury can result from failing to comply with the warning labels in this manual.

- Install the battery hold-down plates and torque to 7-9 Nm, 0.7-0.9 m·kg (62-80 in·lb) as shown.

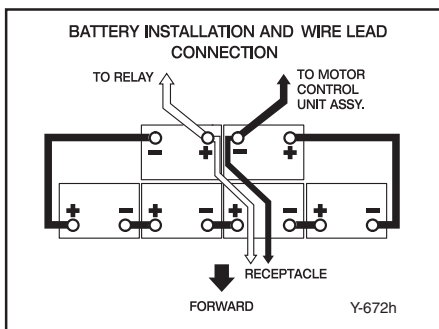
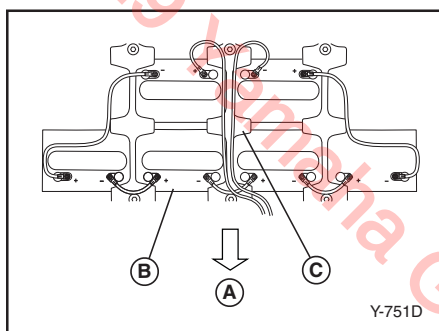
- (A) Forward
- (B) Battery
- (C) Battery hold-down plate

- Connect the wire leads and torque to 9-10 Nm, 0.9-1.0 m·kg (80-89 in·lb) as shown.

⚠ WARNING

When installing batteries:

- Carefully place battery cables and hold-downs making sure that cables do not lay across vent caps.
- Always remove the negative (-) cable to the motor controller first and install it last. Death or serious personal injury can result from failing to comply with the warning labels in this manual.



MAINTENANCE

NOTICE

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

Fuse Replacement

⚠ WARNING

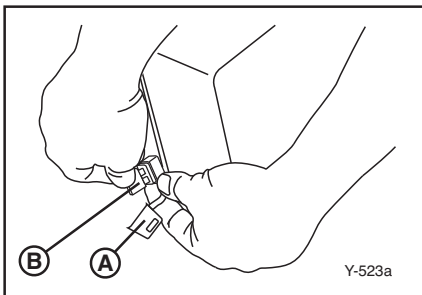
Be sure to use the specified fuse. Using a wrong fuse can cause electrical system damage and create a fire hazard. Death or serious personal injury can result from failing to comply with the warning labels in this manual.

NOTICE

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

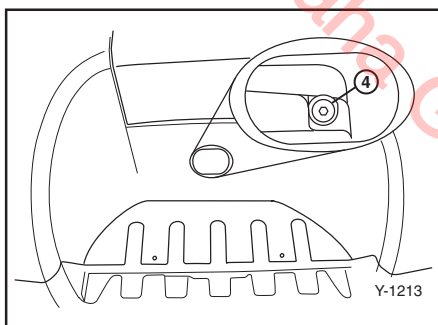
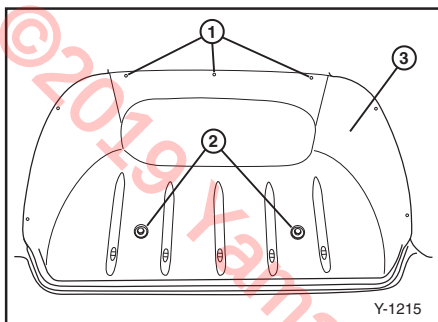
1. Locate the in-line fuse holder on the main wire harness adjacent to the battery.
2. Pull fuse holder cover off.
3. Pull fuse out, inspect and replace if necessary.

- Ⓐ Fuse holder
- Ⓑ Fuse



Fuse Type:
10 Amp, Blade Style

MAINTENANCE



Transaxle Oil

To check transaxle oil level:

1. Place the four-passenger vehicle on a flat, level surface.
2. Remove seven plastic rivets (1) and two bolts (2), and remove the bag holder insert (3).
3. Place an oil pan under the transaxle case.
4. Clean area around servicing plug (4).
5. Using an 8 mm hex wrench, remove transaxle oil servicing plug located on the rear of the transaxle case.
6. Transaxle oil should be at the top of the oil servicing hole or just beginning to run out of hole.

NOTICE

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

7. If needed, add Yamalube Friction Modified Shaft Drive Gear Oil until it is at the top of the plug hole or just beginning to run out of servicing hole.

TIP

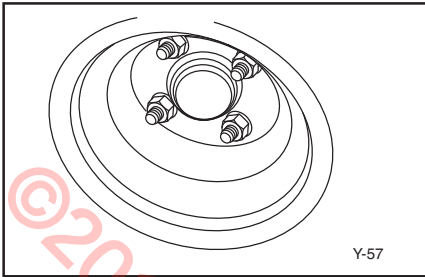
The vehicle is equipped with an internal wet brake. Use of oil other than Yamalube Friction Modified Shaft Drive Gear Oil will cause brake noise.

8. Install the transaxle servicing plug and tighten to 14-19 Nm, 1.4-1.9 m•kg (120-168 in•lb).
9. Install the bag holder insert (3) and secure with two bolts (2) and seven plastic rivets (1).

TIP

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

MAINTENANCE



NOTICE

Before performing wheel or brake maintenance, verify that the main switch is in the “OFF” position. Serious transaxle damage can result.

Wheel Replacement

To remove and install a wheel on your four-passenger vehicle:

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

Wheel nut tightening torque:
80 Nm, 8.0 m•kg (58 ft•lb)

Brake Adjustment

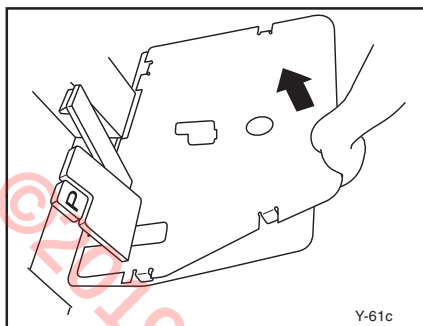
The internal wet brake on your four-passenger vehicle requires no adjusting.

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

⚠ WARNING

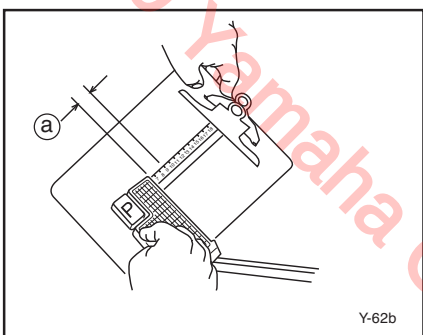
Consult your Yamaha dealer before using your vehicle if you suspect brake problems. Brake failure could result in a serious accident. Death or serious personal injury can result from failing to comply with the warning labels in this manual.

MAINTENANCE



Brake Pedal Freeplay Adjustment

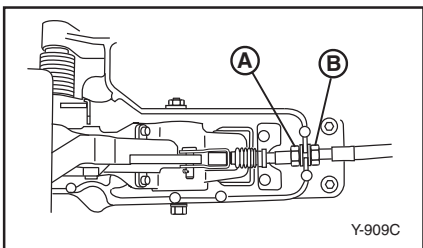
Check the brake pedal freeplay by pressing against the pedal with two fingers (using light force) and measuring the distance the pedal travels before resistance is felt.



Brake pedal freeplay (a):
45-50 mm (1.77-1.96 in.)

To adjust the brake pedal freeplay:

1. Remove the floor mat and service lid from the floor of the four-passenger vehicle.
2. If the freeplay distance needs adjusting, loosen the locknut (A) and turn the adjusting nut (B) in or out until the freeplay specification is met. Then tighten the locknut in place.



⚠ WARNING

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

STORAGE

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

TIP

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

CHASSIS PREPARATION

1. Verify the tire pressure is set to 137-160 kPa, 1.4-1.6 kgf/cm² (20-23 psi).
2. Clean exterior of the four-passenger vehicle and apply a rust inhibitor.
3. Cover the vehicle with a breathable cover and store it in a dry, well-ventilated area.

BATTERY PREPARATION

1. Remove the batteries from the vehicle and store them in a cool, dry place that stays between 0°C (32°F) and 30°C (90°F).
2. Have the batteries recharged every 60-90 days to keep them fully charged. The batteries must be kept fully charged to avoid damage.

TIP

Batteries like the ones supplied with your vehicle normally do not require you to check the water level inside the battery for the one-year warranty period provided by the manufacturer.

NOTICE

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

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

SPECIFICATIONS

GENERAL SPECIFICATIONS

Items	YDRE
Dimensions:	
Overall length	3250 mm (128.0 in.)
Overall width	1200 mm (47.2 in.)
Overall height (steering height)	1190 mm (46.9 in.)
Height of floor	310 mm (12.2 in.)
Wheelbase	2492 mm (98.1 in.)
Tread:	
Front	870 mm (34.3 in.)
Rear	980 mm (38.6 in.)
Minimum ground clearance	110 mm (4.3 in.)
Weight:	
Dry weight (with suntop, without battery)	328 kg (720 lb)
Vibration Level:	
Vibration on seat (EN 1032, ISO5008) for Europe	Will not exceed 0.5 m/s ²
Vibration on steering wheel (EN1032, ISO5008) (for Europe)	Will not exceed 2.5 m/s ²
Performance:	
Factory speed setting	19 km/h (12 mph)
Maximum speed	19 km/h (12 mph)
Minimum turning radius	4.24 m (13.9 ft)
Seating capacity	Four persons

PAINT CODES

Name	Ditzler Number
Glacier	918519
Emerald	48748
Garnet	701739
Tanzanite	917834
Onyx Metallic	918520
Moonstone Metallic	5939
Sandstone Metallic	918523

SPECIFICATIONS

TRANSMISSION

Items	YDRE
Differential/reduction gear: Differential type Lubricant/capacity	Bevel gear Yamalube Friction Modified Shaft Drive Gear Oil / 1350 mL (1.45 quarts total). Alternative lubricant is mixture of 1280 mL (1.35 quarts) 80W90 Gear Oil and 70 mL (0.10 quarts) API G15 Limited Slip Additive.

BATTERIES

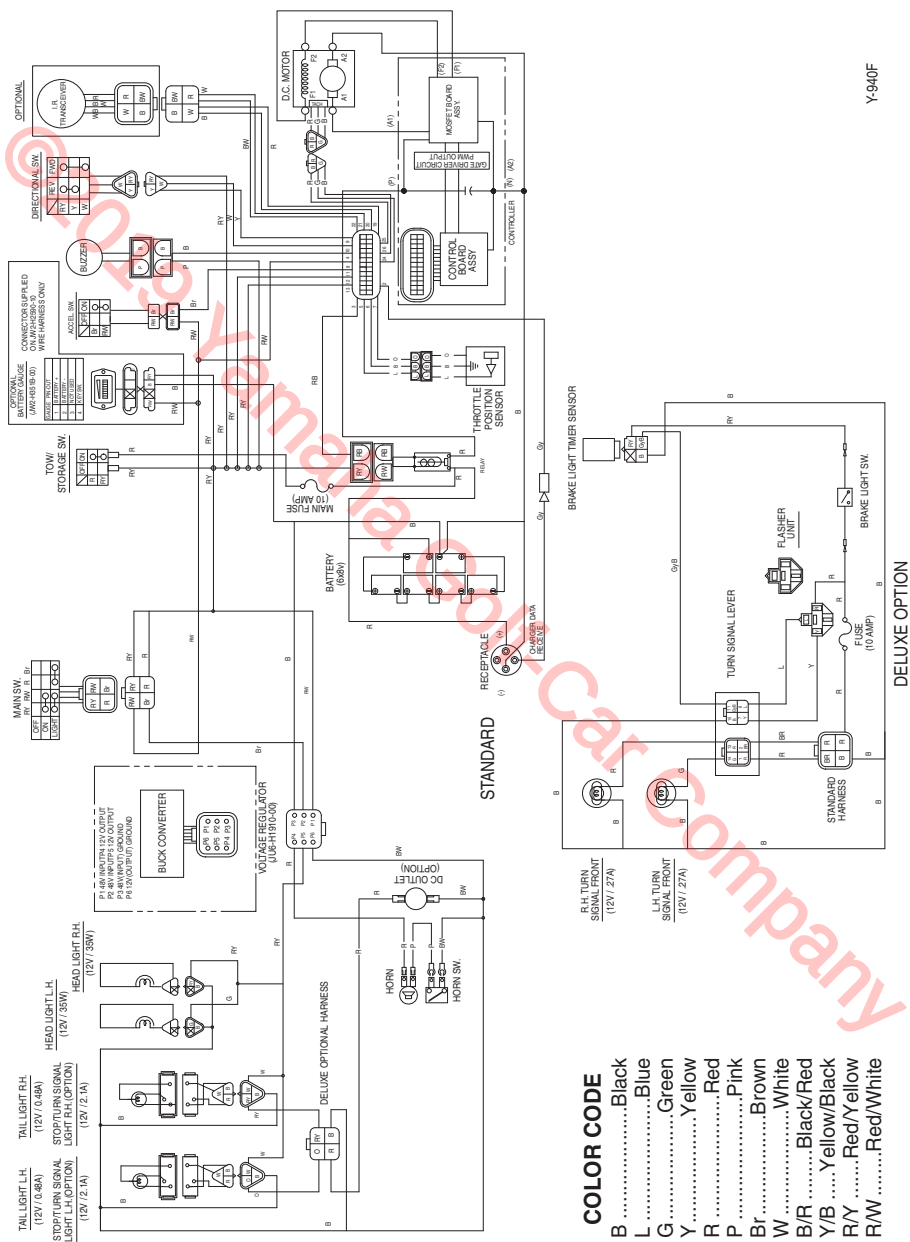
Items	YDRE
Battery:	Trojan - Golf Car Type T-875 (6x8volt) RC: minimum 117 min

CHASSIS

Items	YDRE
Steering system: Type Steering angle (L.H.) Steering angle (R.H.)	Rack and Pinion 1.85 turn 1.85 turn
Brakes: Brake system Type of brake Brake pedal freeplay linkage adjustment (Brake cable end play)	Mechanical Internal Wet 45-50 mm (1.77-1.96 in.) 0.1-0.5 mm (0.004-0.02 in.)
Parking brake: Type	Foot type; parking brake with automatic release
Release timing (With pedal segment in second notch) (Bolt heads round parallel to arm)	0.0 ~ 0.3 mm (0.000 ~ 0.001 in.)
Wheel: Tire size: Front Rear Rim size: Tire pressure:	18 x 8.50-8.00/4 PR 18 x 8.50-8.00/4 PR 7.00-I-8.00 137-160 kPa, 1.4-1.6 kgf/cm ² (20-23 psi)

11

YDRE WIRING DIAGRAM



Y-940F

DELUXE OPTION

11-1

JD4

NOTES

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NOTES

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YAMAHA
GOLF-CAR
COMPANY
1000 HWY 34 East
Newnan, GA 30265
866-747-4027