



OWNER'S / OPERATOR'S MANUAL



READ THIS MANUAL CAREFULLY!
It contains important safety information.

YDRE

ADVENTURER SPORT 2+2 VEHICLE

INTRODUCTION

Congratulations on your purchase of a Yamaha Adventurer Sport 2+2 Vehicle. This manual contains information you will need for proper operation, maintenance, and care of your sport 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 sport vehicle, please consult a Yamaha dealer.

YAMAHA GOLF-CAR COMPANY

**YDRE Adventurer Sport 2+2 Vehicle
Owner's/Operator's Manual**

**© May 2013 by Yamaha
Golf-Car Company
1st edition**

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Yamaha Golf-Car Company
is expressly prohibited.**

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P/N LIT-19626-93-10**



JP1-F8199-10

IMPORTANT MANUAL INFORMATION

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



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

WARNING

A **WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

NOTICE

A **NOTICE** indicates special precautions that must be taken to avoid damage to the sport 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 sport 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 sport vehicle. This manual should be considered a permanent part of your sport vehicle and should remain with the sport vehicle when resold.

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WARRANTY

2-YEAR SPORT AND TRANSPORTATION VEHICLE LIMITED WARRANTY

Yamaha Golf-Car Company hereby warrants that any new Yamaha sport 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 (2) 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, such as 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.

EMISSION CONTROL SYSTEM WARRANTY (GAS CAR ONLY)

Yamaha Golf-Car Company, U.S.A. also warrants to the ultimate purchaser of each engine covered by this warranty that the product is designed, built, and equipped so as to conform at the time of sale with all U.S. emission standards applicable at the time of manufacture and that it is free from defects in materials and workmanship which would cause it not to meet these standards within the period listed immediately below. Failures other than those resulting from defects in material or workmanship which arise solely as a result of owner abuse and/or lack of proper maintenance are not covered by this warranty.
2 years from original purchase date

Questions concerning this warranty? Contact Yamaha at:
Yamaha Golf-Car Company
1000 Georgia Highway 34 East
Newnan, Georgia 30265-1320
1-866-747-4027

powerproductsemissionwarranty@yamaha-motor.com

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: 3/26/13

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) / $(1 - ((80 - \text{TEMP}) / 100) \times 0.64)$.
- 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: 06/01/11

LIT-13710-EL-11

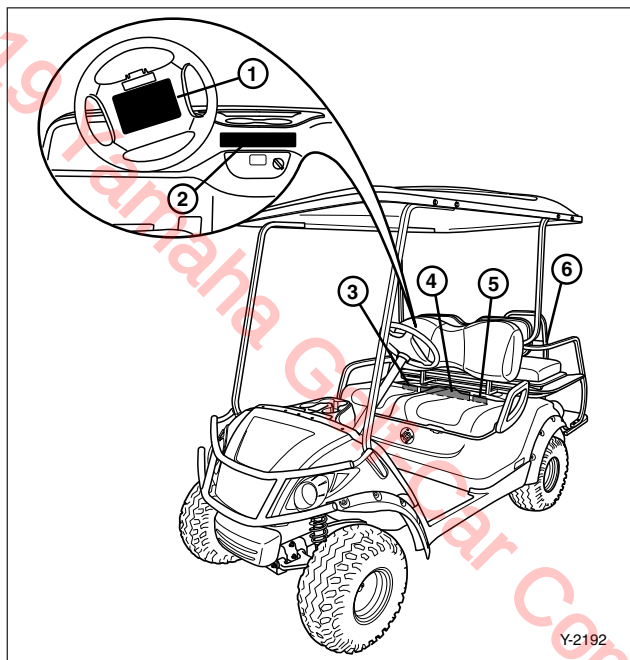
IMPORTANT LABELS

⚠ SAFETY AND INSTRUCTION LABELS

⚠ WARNING

2

Please read the following labels carefully before operating your sport 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.



Y-2192

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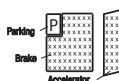
⚠ WARNING

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.

YAMAHA

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- Read the label located on the steering wheel before operation.

- 1999

NC1-K7769-00



▲ 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.

AVERTISSEMENT

- Les gars espèrent se dégoûter
un peu de la change ou décharge
des bebettes.



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.

▲ AVERTISSEMENT

- l'écoulement d'air dans les batteries brida le pout, les vent et les vêtements.
- Se pas brider les batteries.
- Garder les bouchon serrés et horizontaux.
- En cas de contact avec l'acide, nettoyer à grande eau et appeler



▲ WARNING

- Electrical shorts can result in burns.
- Do not make connection between positive and negative battery terminals.

N432 

G.V.W. : 890.5 kg

CURB WEIGHT: 528.5 kg

VEHICLE LOAD CAPACITY: 181 kg PER SEAT

MAX. BATTERY WEIGHT: 171 kg

NOMINAL SYSTEM VOLTAGE: 48V

This vehicle complies to SAE-J-2258 2010

JP1-F4236-00

IMPORTANT LABELS

2

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.



TOW SWITCH

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 décharge totale de la batterie et endommager la batterie pendant l'entreposage a long terme.
- Après avoir change l'interrupteur de position "RUN" a position "TOW", attendre un minimum de 15 seconds avant de le remettre.

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2-3

⚠ WARNING

CARRYING PASSENGERS • Do not allow more than 2 passengers in this seat. • Maximum load in seat: 181 kg (400 lb) • Remain fully seated and hold on to the hand holds when in motion. • Keep entire body inside vehicle. • Do not allow children to ride unsupervised in this seat.	CARRYING CARGO • When seat is flipped down, do not carry passengers in cargo area. • Maximum load in cargo area (including footrest and bagwell): 110 kg (250 lb) • Load may affect handling and stability. • Secure cargo so that it will not shift. • Loose load could change handling unexpectedly or be thrown forward and strike occupants.	Static electricity sparks can ignite fuel vapor causing FIRE or EXPLOSION. • Do not fill portable fuel container (gas can) in vehicle. • Set fuel container on the ground and touch fuel nozzle to the unopened container before removing cap. • Keep the fuel nozzle in contact with the container while fueling. • Tighten cap before putting fuel container in vehicle.	 • Keep hands, body and feet away from pinch points on surface below when flipping the seat.				
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. <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Front</td> <td style="text-align: center;">Rear</td> </tr> <tr> <td style="text-align: center;">Recommended: 84 kPa, 12 psi / 97 kPa, 14 psi</td> <td style="text-align: center;">Minimum: 70 kPa, 10 psi / 84 kPa, 12 psi</td> </tr> </table> • Never set tire pressure below minimum. Tire may dislodge from rim.				Front	Rear	Recommended: 84 kPa, 12 psi / 97 kPa, 14 psi	Minimum: 70 kPa, 10 psi / 84 kPa, 12 psi
Front	Rear						
Recommended: 84 kPa, 12 psi / 97 kPa, 14 psi	Minimum: 70 kPa, 10 psi / 84 kPa, 12 psi						

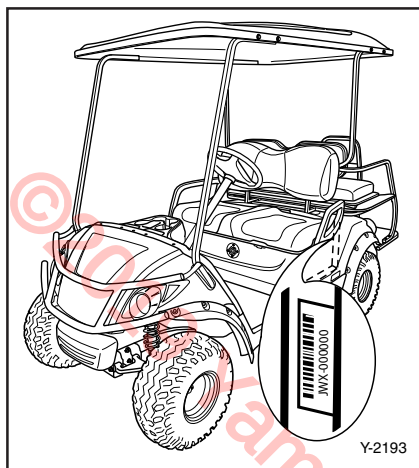
YAMAHA

JPO-KB483-00

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IMPORTANT LABELS



SPORT VEHICLE SERIAL NUMBER

The sport 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.



SAFETY INFORMATION

3

Yamaha sport 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 SPORT VEHICLE

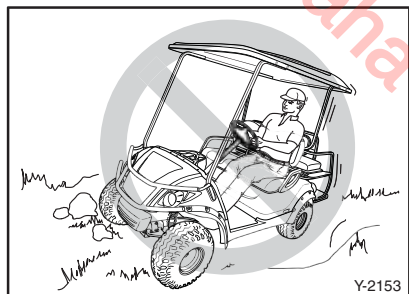
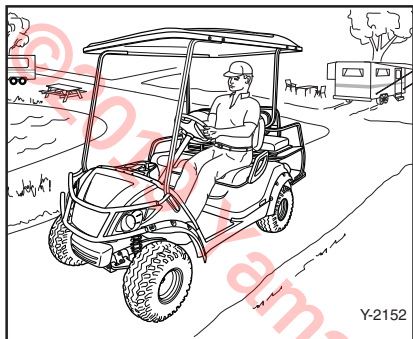
- Read this Owner's/Operator's manual and all safety and instruction labels on the sport vehicle before operating.
- Perform the pre-operation checks found in Section 5 of this manual.
- This vehicle is recommended only for operators 16 and older with a valid motor vehicle license. Adults must supervise use by minors. Check state laws for minimum age requirements.
- Do not allow more than two occupants per seat. This sport vehicle is restricted to four occupants.
- Never give a ride to a passenger who is unable to put both feet firmly on the floorboard while seated with his or her back against the back-rest.
- Never carry passengers on the cargo bed.
- Do not operate the sport vehicle while under the influence of alcohol or drugs; their effect on vision and judgment make operating a sport 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.





SAFETY INFORMATION

3



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

WHILE OPERATING THE SPORT VEHICLE

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



SAFETY INFORMATION

3

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

CARRYING PASSENGERS

- This vehicle is designed to carry the driver and up to three passengers. When a seat is flipped down, do not carry passengers in the cargo area.
- Do not allow more than 2 people in each bench seat.
- Maximum load per seat: 181 kg (400 lb)
- Passengers must remain fully seated and hold on to the handrails when in motion.
- Do not allow children to ride unsupervised in the rear bench seat.



SAFETY INFORMATION

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 sport vehicle which has accessories.

- Choose only accessories designed for your sport 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 sport vehicle.
- Do not mount an accessory where it could interfere with your ability to control the sport 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 sport vehicle with accessories. The sport vehicle may handle differently than it does without accessories.

Loading

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

- Never exceed the weight limits shown on page 9-1. An overloaded sport vehicle can be unstable.
- Capacity for cargo area (including footrest and bagwell: 110 kg (250 lb))
- Cargo should be as far forward on the cargo area as possible, and distributed evenly from side to side. Be sure cargo is secured so that it cannot move around during operation.
- Make sure the load does not interfere with controls or your ability to see where you are going.
- Drive more slowly than you would without a load. The more weight you carry, the slower you should go. Although conditions vary, it is good practice not to exceed low range whenever you are carrying heavier loads or when towing a trailer.
- Allow more braking distance. A heavier vehicle takes longer to stop. Do not brake abruptly when carrying loads on the cargo bed.
- 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 sport vehicle.



SAFETY INFORMATION

MAINTENANCE REQUIRED FOR SPORT VEHICLE SAFETY

Practice the following to help ensure the safety of sport vehicle occupants:

- **Preventative Maintenance.** Perform all scheduled maintenance in accordance with manufacturer's recommendations to provide a safe, properly operating sport vehicle.
- **Personnel.** Allow only qualified, trained and authorized personnel to inspect, adjust and maintain sport 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 sport 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 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 sport vehicle before beginning any maintenance to avoid any unexpected vehicle movement.
- Properly block chassis before working underneath sport 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 sport 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 sport vehicles or around batteries to avoid electrical shock or damage to the electrical system.
- Maintain all safety devices including brakes, steering mechanisms, warning devices and governors, in a safe operating condition. Do not modify these safety devices as supplied by the manufacturer.
- After each maintenance or repair, the car must be driven by a qualified, trained and authorized person – in an area free of pedestrian traffic – to ensure proper operation and adjustment.



SAFETY INFORMATION

- 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.

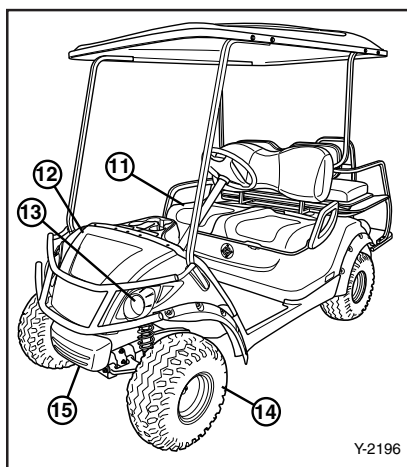
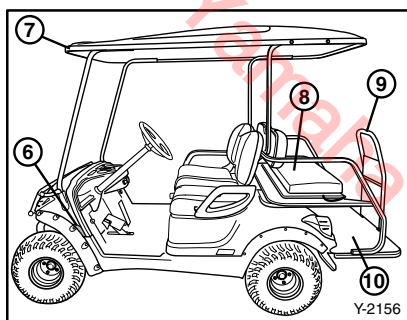
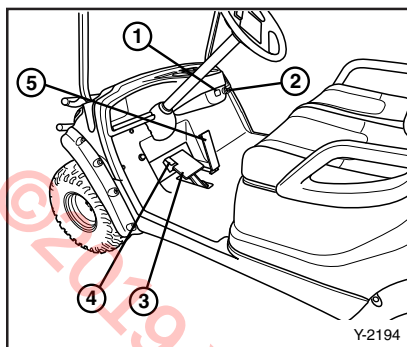
STORAGE AND BATTERY CHARGING

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.

CONTROLS

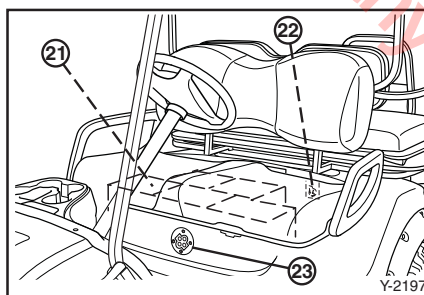
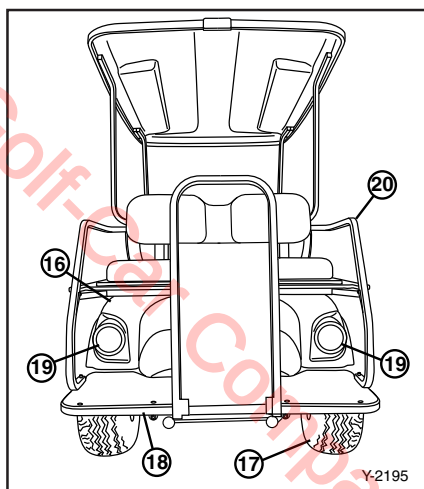
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FEATURES

- ① Drive select switch
- ② Main/Light switch
- ③ Brake pedal
- ④ Parking brake pedal
- ⑤ Accelerator pedal
- ⑥ Reflector
- ⑦ Sun roof
- ⑧ Rear seat
- ⑨ Rear handrail

- ⑩ Rear footrest
- ⑪ Front seat
- ⑫ Front body
- ⑬ Headlights
- ⑭ Front tire
- ⑮ Front bumper
- ⑯ Rear body
- ⑰ Rear tire
- ⑱ Rear bumper
- ⑲ Taillights
- ⑳ Side handrail
- ㉑ Batteries
- ㉒ Tow switch
- ㉓ DC charger receptacle



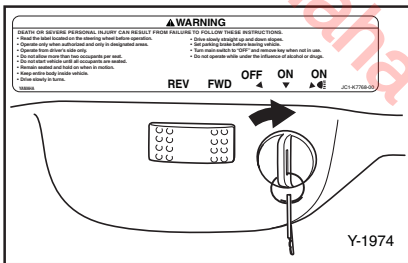
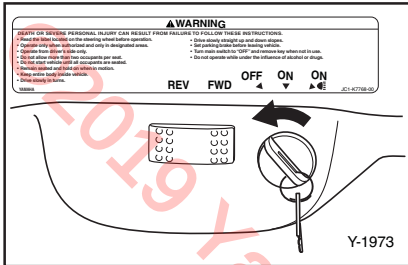
CONTROLS

MAIN SWITCH

The main switch controls the following items:

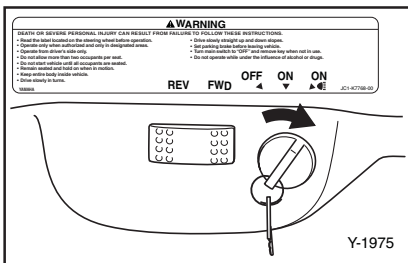
“OFF”

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



“ON”

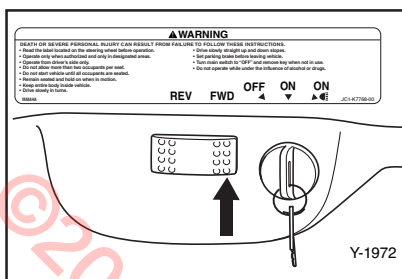
Electrical circuits are switched on.
The vehicle can be driven.



“ON” WITH LIGHTS

The functions for this position are the same as for the ON position; however, this position will activate the headlights and taillights.

CONTROLS



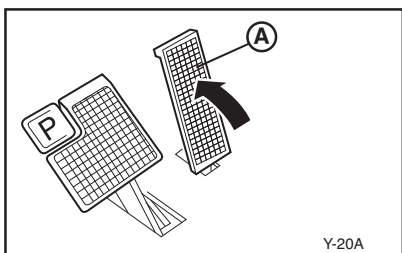
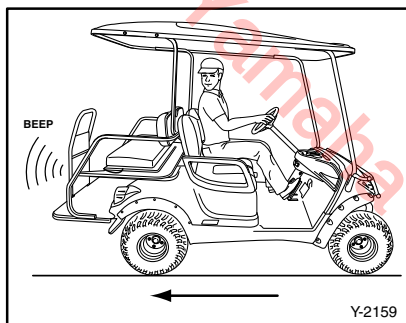
DRIVE SELECT SWITCH

The drive select switch is used to shift the sport 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 lever is turned to "REV."

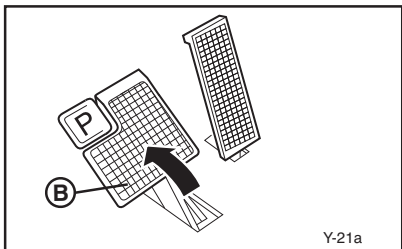


ACCELERATOR PEDAL

The accelerator pedal controls the sport vehicle's speed.

Action	Car Speed
Depress pedal	Increase
Release pedal	Decrease

Ⓐ Accelerator pedal

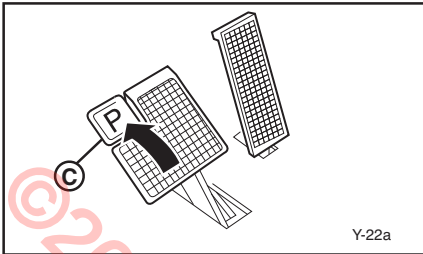


BRAKE PEDAL

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

Ⓑ Brake pedal

CONTROLS



PARKING BRAKE PEDAL

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

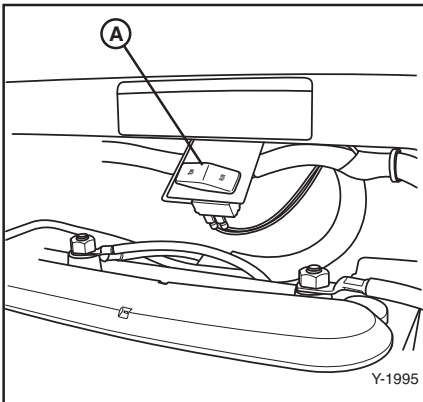
© Parking brake pedal

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 sport vehicle to move.



TOW SWITCH

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

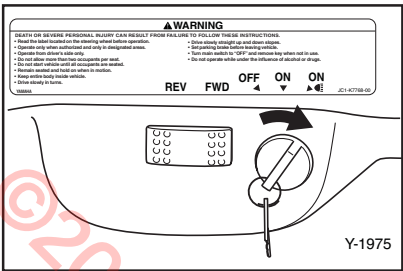
Ⓐ Tow switch

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.

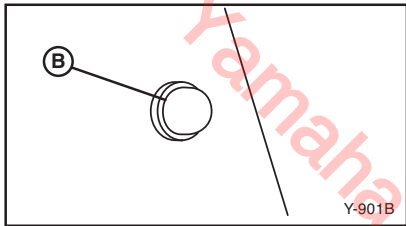
CONTROLS



HEADLIGHT/TAILLIGHT ON POSITION

Turn the main switch all the way to the right to the second ON position. This will activate the headlights and taillights.

4



HORN SWITCH

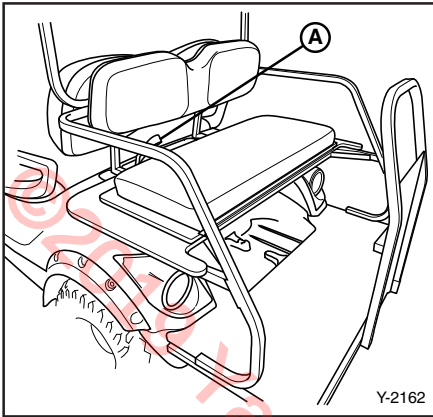
The horn is located adjacent to the brake pedal, and is activated by depressing with your foot.

⑧ Horn Switch

TIP

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

CONTROLS

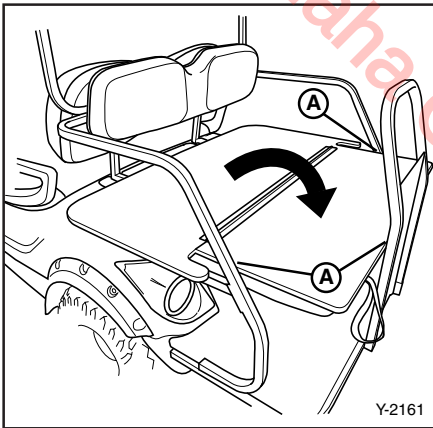


REAR SEAT

The rear seat is designed to carry a maximum of two passengers. All passengers should remain inside the sport vehicle, remain seated with their feet on the rear footrest and hold onto the handrails while the vehicle is in motion.

The rear seat can be folded down to a cargo bed. Grab the strap and lift up the seat and fold it to the rear of the vehicle.

(A) Strap



⚠ WARNING

There are several pinch points for the rear seat when folding it down. Use care when folding the seat down so nothing is in the area of these pinch points.

(A) Pinch points

⚠ WARNING

Never allow passengers to ride on the cargo bed when it is folded down. There is no seating and passengers can easily fall off. Death or serious personal injury can result in failure to comply.

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

PRE-OPERATION CHECKS

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

⚠ WARNING

Failure to inspect or maintain your vehicle properly increases the possibility of an accident or equipment damage. Do not operate the vehicle if you find any problem. If a problem cannot be corrected by the procedure in this manual, have the vehicle inspected by a Yamaha dealer.

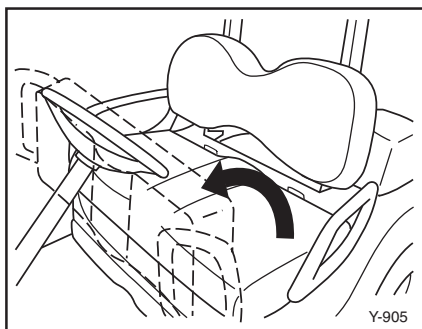
PRE-OPERATION CHECKLIST

Before each use check the following:

- ☐ Batteries
- ☐ Tire condition
- ☐ Steering system
- ☐ Reverse alarm
- ☐ Pedal operation
- ☐ Headlights/Taillights
- ☐ Horn operation
- ☐ Body and chassis
- ☐ Cargo bed

SEAT

Open the seat for checking and servicing.



PRE-OPERATION CHECKS

BATTERY

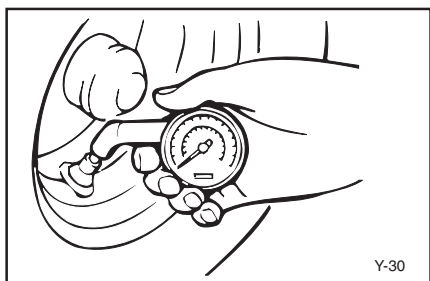
Charge batteries before each use. See charging steps in Chapter 7, *Maintenance*.

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.

5



TIRE CONDITION

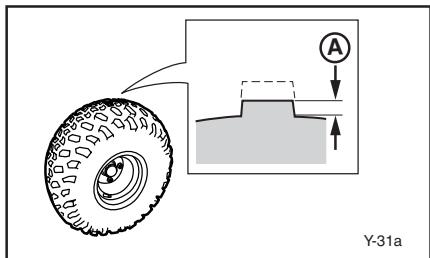
Tire Air Pressure

Check the tire air pressure before operating the sport vehicle.

Tire pressure:

Front: 84 kPa (12 psi)

Rear: 97 kPa (14 psi)

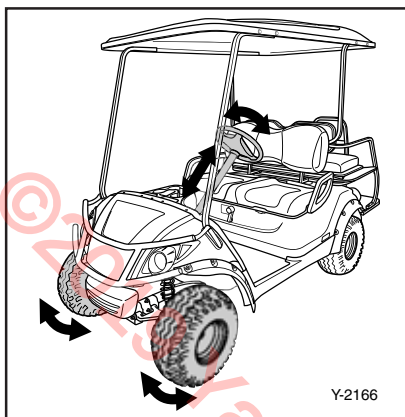


Tire Wear Limit

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

 Wear limit

PRE-OPERATION CHECKS



STEERING SYSTEM

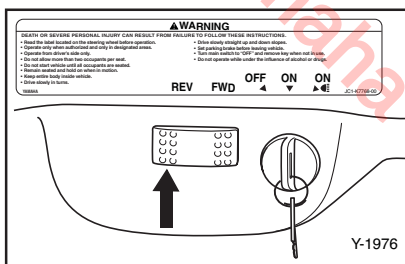
Check the steering system for excessive free play by:

- 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.

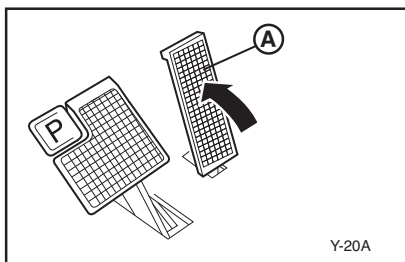
REVERSE ALARM

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.

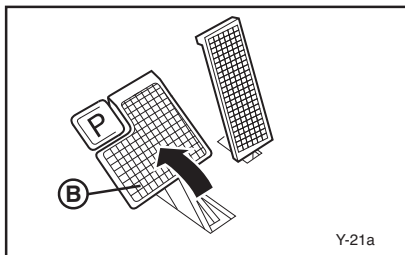


Accelerator Pedal

⚠ WARNING

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

- Ⓐ Accelerator pedal



Brake Pedal

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

- Ⓑ Brake pedal

PRE-OPERATION CHECKS

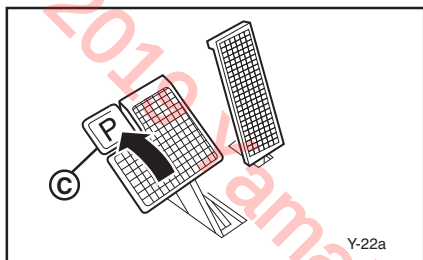
⚠ WARNING

Consult your Yamaha dealer before using your sport vehicle if you suspect brake problems.

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

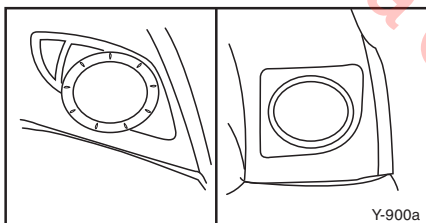
Release the parking brake by depressing the accelerator pedal.

Headlights/Taillights

Ensure the headlights and taillights are operational.

⚠ WARNING

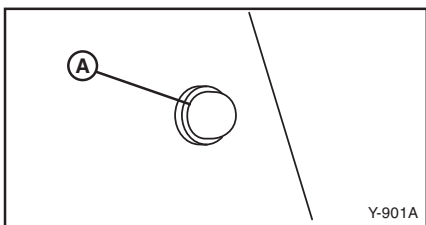
Never operate the sport vehicle at night or during inclement weather without properly working headlights/taillights.



Horn Switch

Make sure the horn operates correctly.

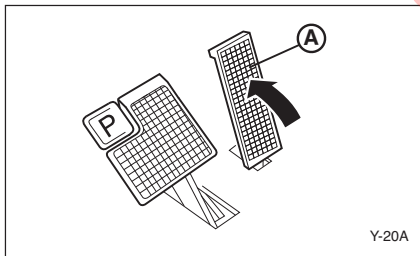
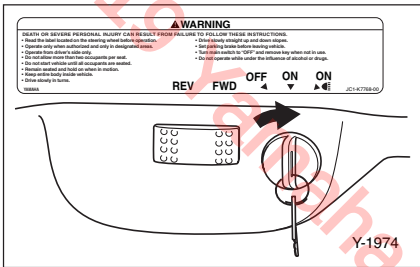
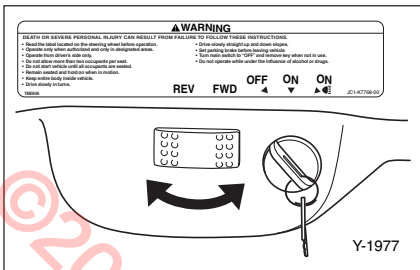
Ⓐ Horn Switch



BODY AND CHASSIS

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

OPERATION



STARTING

1. With the parking brake applied, move the drive select switch to "FWD" for forward, or "REV" for reverse.

NOTICE

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

2. Turn the main switch to “ON.”

⚠ WARNING

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

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

Ⓐ Accelerator pedal

TIP

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

OPERATION

STOPPING

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

(A) Brake pedal

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

(B) Parking brake pedal

NOTICE

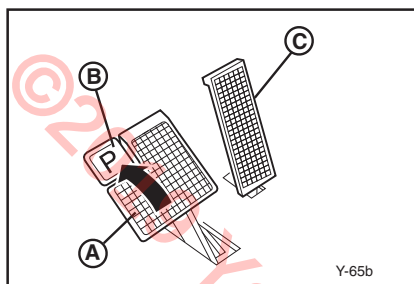
Do not hold the sport vehicle on an incline with the accelerator – use the brake. Transmission damage can result.

LOADING

Cargo can change the stability and handling of a vehicle.

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

- Never exceed the weight limits shown. An overloaded vehicle can be unstable.
- Cargo should be as far forward on the bed as possible, and distributed evenly from side to side. Be sure cargo is secured so that it cannot move around during operation.



MAXIMUM LOADING LIMIT

- Maximum Load per Seat:
181 kg (400 lb)
- Maximum Cargo Bed Capacity:
110 kg (250 lb)
- Gross Vehicle Weight:
890.5 kg (1,963 lb)

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.
- 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 on 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 on cargo bed.

MAINTENANCE

PERIODIC MAINTENANCE CHARTS

Regular maintenance is required for the best performance and safe operation of your sport 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	20 hours 100 miles 160 kms (Every Month)	125 hrs 600 mls 1000 kms (Every 6 months)	250 hrs 1200 mls 2000 kms (Every Year)	500 hrs 2500 mls 4000 kms (Every 2 years)	1000 hrs 5000 mls 8000 kms (Every 4 years)	Page
PRE-OP	Charge	S	S	S	S	S	S	7-5/ 7-6
	Clean battery tops, check for tightness of hold-down screws and terminals	S	S	S	S	S	S	7-3/ 5-2
	Check brake pedal free play and adjust if necessary	CS	CA	CA	CA	CA	CA	5-4/ 7-11
	Check steering operation	CS	CS	CS	CS	CS	CS	5-3
	Check tire pressure, tread depth, tire surface for damage	CS	CA	CA	CA	CA	CA	5-2
	Check body and chassis for damage	CS	CS	CS	CS	CS	CS	5-4
	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	5-3
EVERY MONTH	Check electrolyte level		CS	CS	CS	CS	CS	7-3/7-4
	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

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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	7-10/*
	Check transaxle oil level and inspect for leakage				CS	CS	CS	7-9
	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.

Six 8-volt deep cycle batteries provide power for your electric sport vehicle and must be properly maintained and recharged for maximum performance and service life.

To maintain your batteries:

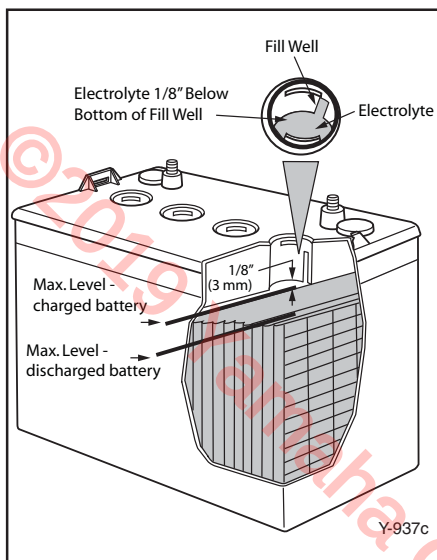
1. Clean the tops of the batteries with a solution of baking soda and water, as necessary, to remove corrosion.

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



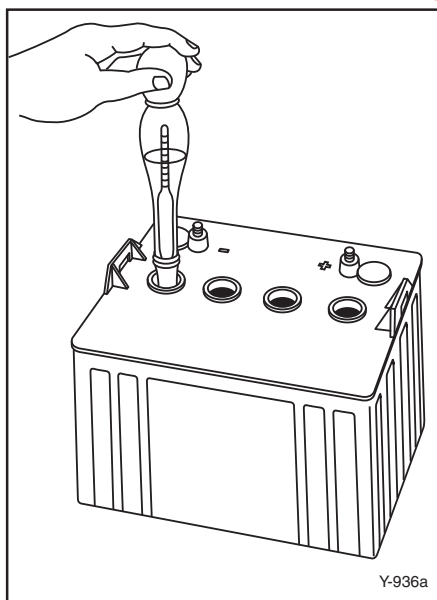
- **Before charging:** only add distilled water if fluid is below the top of the plates, and then add just enough to cover plates.
- **After charging:** open the vent caps and look inside the fill wells. Add distilled water until the electrolyte level is 3 mm (1/8") below the bottom of the fill well. 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



WARNING

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

- Read the rider manual or the operating manual before operation.
- Operate only when adequately and properly designated areas.
- Operate from a standing start only.
- Do not allow more than one passenger per seat.
- Do not start vehicle until all passengers are seated.
- Always seated and hold on when in motion.
- Keep under fully aware vehicle.
- Always wearing a helmet.

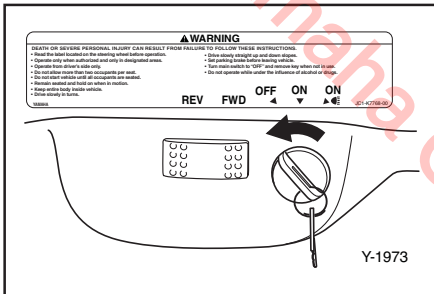
REV FWD OFF ON ON

Y173Z

⚠ WARNING

⚠ WARNING

To charge the batteries in your sport vehicle, follow the instructions contained in your battery charger's owner's manual. The following is a summary of the charging steps.



Do not attempt to recharge your sport vehicle's batteries without thoroughly reading and understanding the owner's manual provided with your charger.

1. Turn main switch key to “OFF” position.

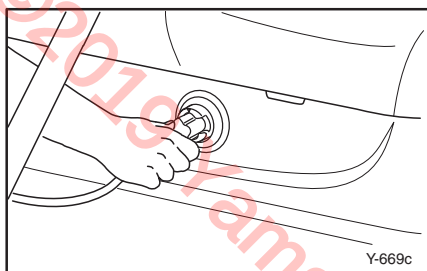
Always put the tow switch in the TOW position before charging battery or damage to the electrical system may result.

2. Lift up the seat and move the tow switch to the TOW position.

MAINTENANCE

NOTICE

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

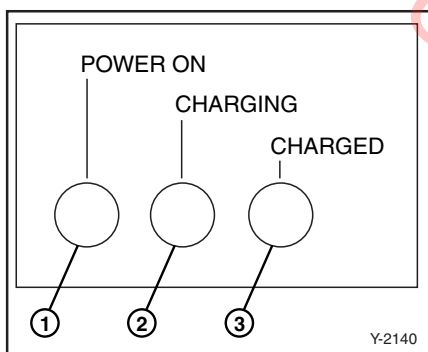


3. With the charger properly connected and grounded (see charger's owner's manual), insert the DC output into the DC charger receptacle.

⚠ 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.

7



- 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.

- 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.

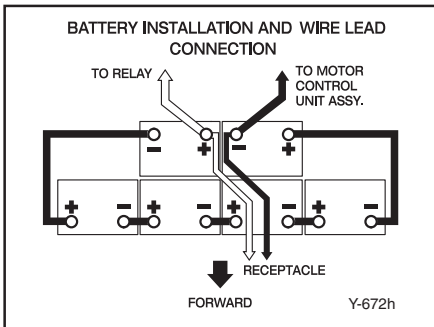
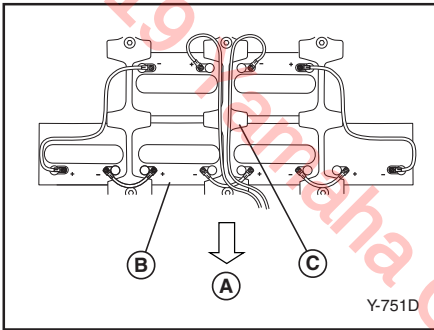
⚠ WARNING

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.

NOTICE

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



MAINTENANCE

Fuse Replacement

⚠ WARNING

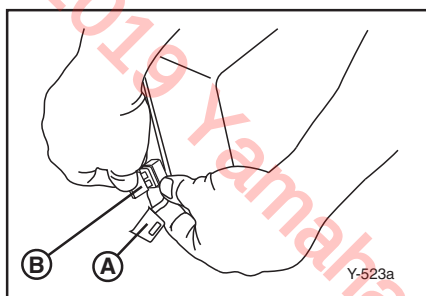
Be sure to use the specified fuse. Using a wrong fuse can cause electrical system damage and create a fire hazard.

NOTICE

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

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

- Ⓐ Fuse holder
Ⓑ Fuse



Fuse Type:
10 Amp, Blade Style

MAINTENANCE

Transaxle Oil

To check transaxle oil level:

1. Place the sport 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 the servicing plug ④.
5. Using an 8 mm hex wrench, remove the 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

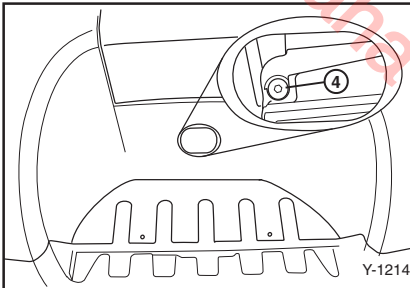
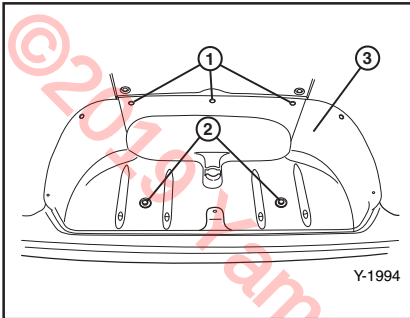
Do not allow foreign material to enter the transaxle. Serious transaxle damage can result.

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 the servicing hole.

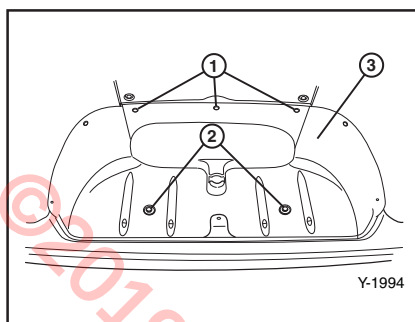
TIP

The sport 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·lbs).



MAINTENANCE



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.

⚠ 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 sport vehicle:

1. With the wheels blocked to prevent the sport vehicle from moving, loosen the wheel nuts.
2. Elevate the sport 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:
88 Nm, 8.8 m·kg (65 ft·lb)

Brake Adjustment

The internal wet brake on your sport vehicle requires no adjustment.

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

MAINTENANCE

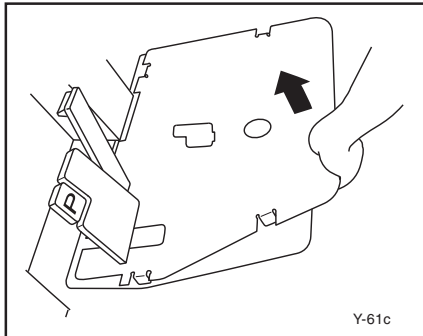
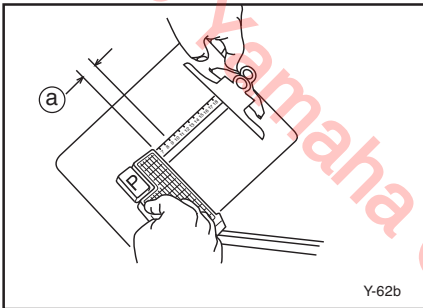
WARNING

Consult your Yamaha dealer before using your sport vehicle if you suspect brake problems. Brake failure could result in a serious accident.

Brake Pedal Free Play Adjustment

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

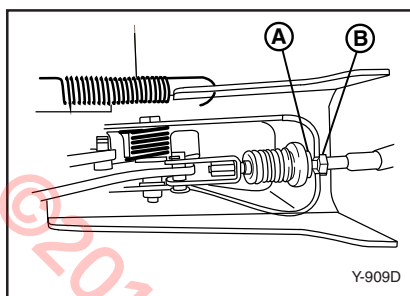
Brake pedal free play (a):
45-50 mm (1.77-1.96 in.)



To adjust the brake pedal free play:

1. Remove the floor mat and service lid from the floor of the sport vehicle.

MAINTENANCE



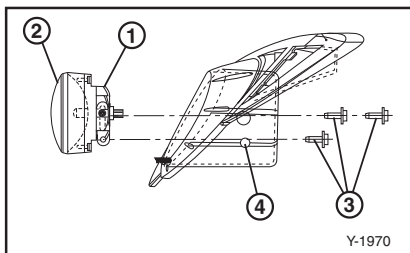
2. If the free play distance needs adjusting, loosen the lock nut (A) (under rubber boot) and turn the adjusting nut (B) in or out until the free play specification is met. Then tighten the lock nut in place.

NOTICE

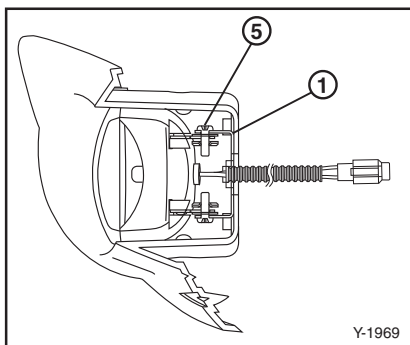
Do not over-tighten the brake cables. Over-tightening will increase brake wear and affect overall performance of sport vehicle. Premature brake wear can result.

Replacing a Headlight Bulb

If the headlight burns out replace it as follows:



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



MAINTENANCE

Adjusting a Headlight

NOTICE

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

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

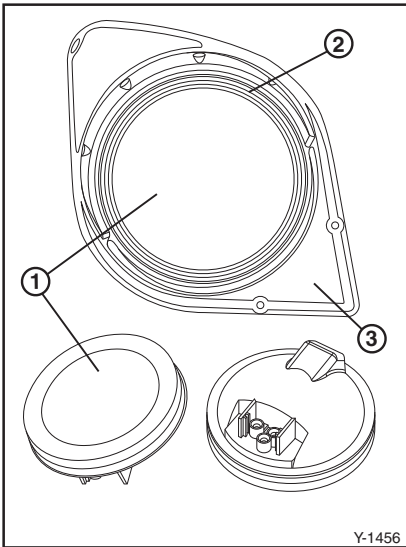
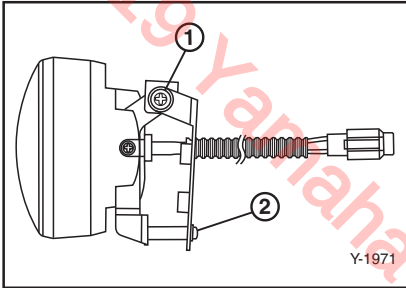
TIP

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

2. Using a Phillips head screwdriver, turn the adjusting screw ②. Turning the screw clockwise will lower the beam and turning the screw counter-clockwise will raise the beam.
3. Once the correct adjustment has been made, tighten the screws ① to 3 ~ 4.5 Nm, 0.3 ~ 0.45 m·kg (27 ~ 40 in·lb).

Replacing a Taillight Bulb

1. If a taillight bulb burns out, replace the bulb assembly ① by removing the rubber grommet ② from the bezel assembly ③.
2. Remove the wire connector, replace the bulb, and reinstall by fitting the rubber grommet ② over the bulb assembly ① and bezel ③.



STORAGE

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

TIP

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

CHASSIS PREPARATION

1. Verify the tire pressure is set to:
Front: 84 kPa (12 psi)
Rear: 97 kPa (14 psi)
2. Clean exterior of the sport vehicle and apply a rust inhibitor.
3. Cover the sport 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	YDRE SPORT VEHICLE
Dimensions:	
Overall length	2765 mm (108.9 in.)
Overall width	1296 mm (51.02 in.)
Overall height (steering height)	1271.2 mm (50.05 in.)
Height of floor	365 mm (14.4 in.)
Wheelbase	1640 mm (64.6 in.)
Tread:	
Front	961.3 mm (37.8 in.)
Rear	1021.3 mm (40.2 in.)
Minimum ground clearance	139 mm (5.5 in.)
Weight:	
Dry weight (without batteries)	528.5 kg (1,165 lb)
Performance:	
Factory speed setting	19 km/h (12 mph)
Maximum speed	24 km/h (15 mph)
Optional maximum speed	31 km/h (19 mph)
Turning radius	3.0 m (118 in.)
Seating capacity	Two occupants per seat, four occupants maximum
Maximum load per seat	181 kg (400 lb)
Maximum cargo bed capacity	110 kg (250 lb)
Gross vehicle weight	890.5 kg (1,963 lb)

PAINT CODES

Name	Ditzler Number
Glacier	918519
Garnet	701739
Moonstone Metallic	5939
Larimar Metallic	194512
Jasper Metallic	AH7140

TRANSMISSION

Items	YDRE SPORT VEHICLE
Differential/reduction gear:	
Differential type	Bevel gear
Lubricant/capacity	Yamalube Friction Modified Shaft Drive Gear Oil / 1750 mL (1.85 quarts total). Alternative lubricant is mixture of 1660 mL (1.75 quarts) 80W90 Gear Oil and 90 mL (0.10 quarts) API G15 Limited Slip Additive.

SPECIFICATIONS

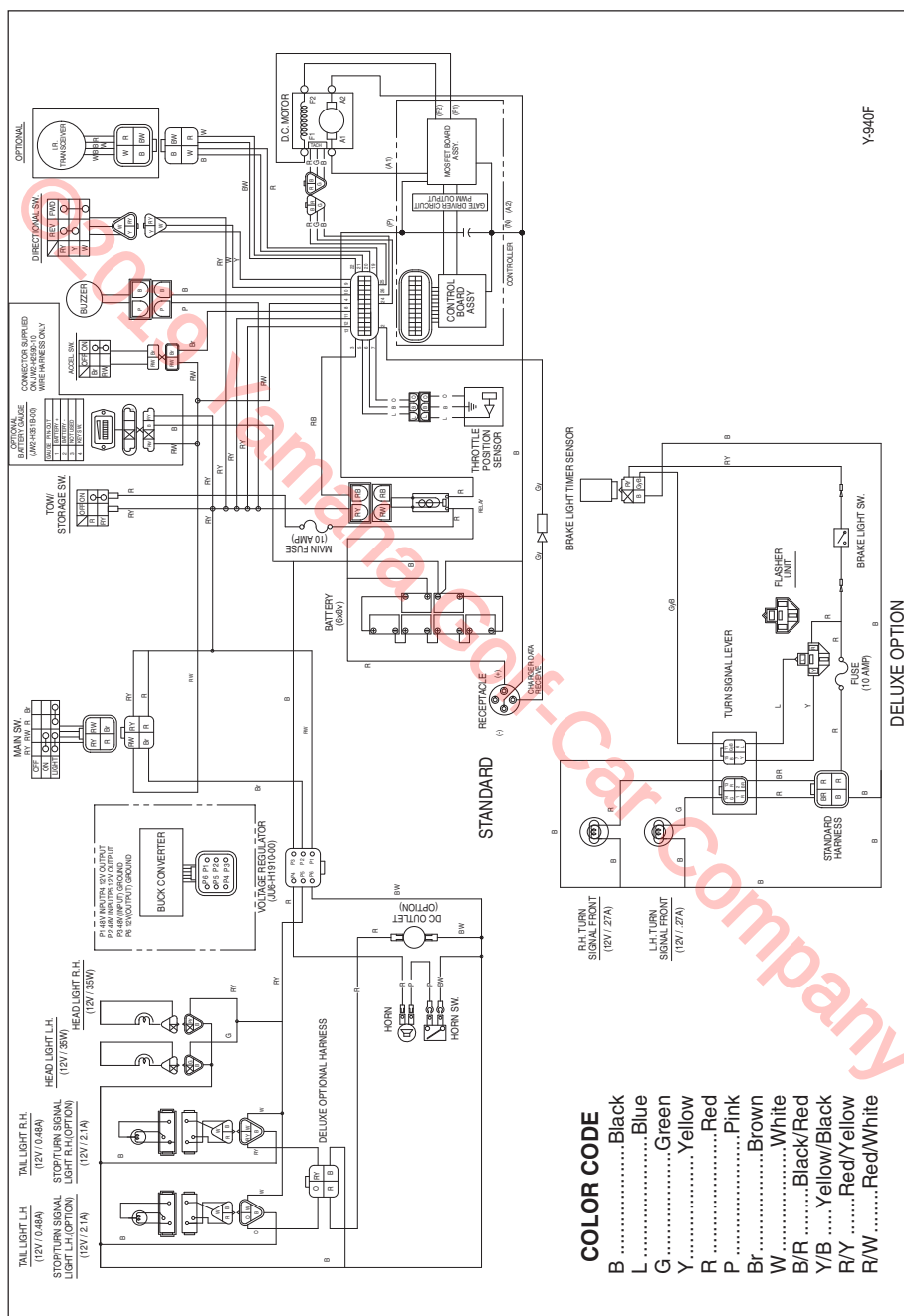
BATTERIES

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

CHASSIS

Items	YDRE SPORT VEHICLE
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 free play 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:	20 x 8.50-8.00/PR 20 x 8.50-8.00/PR 8 x 7 Front: 84 kPa (12 psi) Rear: 97 kPa (14 psi)
Light bulbs: Taillights Headlights Front turn signals Stop/turn signals	12V/0.48A 12V/35W 12V/0.27A 12V/2.1A

WIRING



Y-940F

DELUXE OPTION

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10-1

NOTES

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