

OWNER'S / OPERATOR'S MANUAL

YDRE 48 VOLT GOLF CAR

LIT-19626-21-09 JW2-F8199-11

INTRODUCTION

Congratulations on your purchase of a Yamaha golf car. This manual contains information you will need for proper operation, maintenance, and care of your golf car. 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 golf car, please consult a Yamaha dealer.

YAMAHA GOLF-CAR COMPANY

YDRE OWNER'S/OPERATOR'S MANUAL

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IMPORTANT MANUAL INFORMATION

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



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

A WARNING

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

CAUTION

This message describes special precautions that must be taken to avoid damage to the golf car.

NOTE:	
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This message provides additional key information.

NOTE:

- Yamaha continually seeks advancements in product design and quality; therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your golf car and this manual. If you have any questions concerning this manual, please consult your Yamaha dealer.
- This manual should be considered a permanent part of your golf car and should remain with the car when resold.

A WARNING

Read and understand this manual completely before operating your golf car. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

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WIRING

WARRANTY

LIMITED 4-YEAR GOLF CAR LIMITED WARRANTY

Yamaha Golf-Car Company hereby warrants that any new YDRA gas or YDRE electric Yamaha golf car purchased from an authorized Yamaha golf car dealer in the United States will be free from defects in material and workmanship for FOUR 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.
- b. 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 two-person, golf course vehicle.
- f. Damage due to improper transportation.
- g. 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 exclusions are the YDRA battery, body parts, seats, mats, bumper assembly, bag carrier, scorecard holder, trim, and the Specific Exclusions below.
- Year 3: The third year exclusions include the second year exclusions, plus the control cables and electrical system (except electronic speed controller, battery charger, and electric motor), and the Specific Exclusions below.
- Year 4: The fourth year of the warranty covers only the electric motor, speed controller, battery charger, and transaxle on the YDRE and the engine, clutch system (except drive belt), and transaxle on the YDRA.

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 golf car or charger to and from an authorized Yamaha golf car dealer for service or in performing field service is also excluded from this warranty.

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

- Operate and maintain the golf car 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: Any transfer of warranty must take place within the first three years of the original in-service date of the vehicle. The vehicle must be re-registered by an authorized Yamaha Golf-Car Dealer within 30 days of transfer. A fee may be charged for the transfer of the warranty.

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 ARE ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING LOSS OF USE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

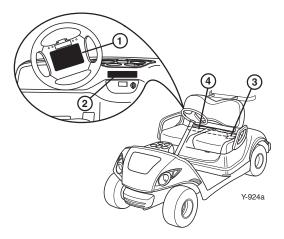
THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY, FROM STATE TO STATE.

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

EFFECTIVE DATE: 6/1/08 LIT-13710-03-08

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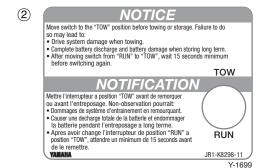
IMPORTANT LABELS



⚠ SAFETY AND INSTRUCTION **LABELS**

WARNING

Read the following labels carefully before operating your golf car, 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.



(4)

OPERATING INSTRUCTIONS

- OPERATING INSTRUCTIONS

 Read the warning lobel 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 and the parking brake will release automatically.

 To stop, release the accelerator pedal and press the brake pedal.

 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 lose surfaces.

 Come to a complete stop before reversing direction.

 Press the parking brake pedal until it locks, and turn the main switch to "OFF" before leaving the vehicle.

 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.

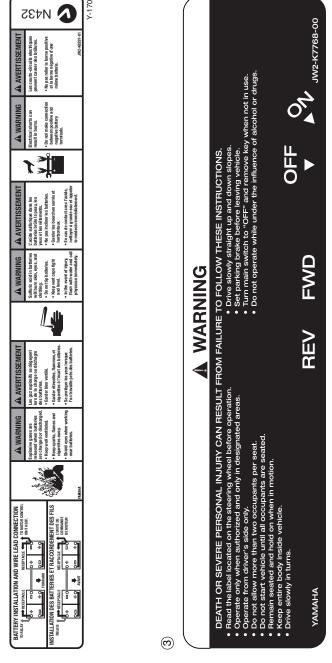
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2-1 JW2

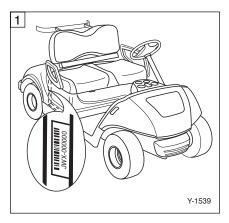
IMPORTANT LABELS



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IMPORTANT LABELS



GOLF CAR SERIAL NUMBER

The golf car serial number ① is identified in the location shown.

NOTE: _

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

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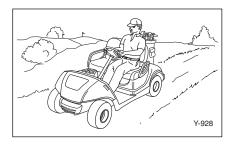
OPERATOR SAFETY

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

BEFORE OPERATING THE GOLF CAR

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





WHILE OPERATING THE **GOLF CAR**

- Keep your entire body inside the golf car, remain seated, and hold on when the car is in motion.
- Do not start the golf car until all occupants are seated.
- Keep your hands on the steering wheel and your eyes on the path ahead.

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1 OPERATOR SAFETY

- 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 golf car 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.



• Do not run the engine indoors. Exhaust gas is poisonous.



• 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.



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SAFETY CONSIDERATIONS

Like all machines, golf cars can cause injury if improperly used or maintained. This section contains broad safety practices required for safe golf car operation. Before golf cars are operated, golf course personnel should establish any additional safety practices that may be required for safe operation.

Experience has shown that golf cars are safe when operated in accordance with the safety warnings affixed to every golf car. This safe operation is enhanced when golf cars are used according to the safety rules and practices established to meet the terrain and conditions of the course they are used on.

The information contained here is intended for golf course personnel responsible for golf car safety. If you are responsible for the operation and maintenance of this golf car, we encourage you to implement this golf car safety program.

DRIVER QUALIFICATIONS

Allow only authorized people to operate golf cars. It is recommended that only people who possess a valid motor vehicle driver's license be allowed to operate golf cars.

Place operation and safety instructions recommended by the golf car manufacturer, along with the golf course safety rules, in a conspicuous place near the golf car rental area or golf car pick-up area. It is also recommended that the following warning be posted in a conspicuous location:

A WARNING

Do not operate utility 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.

GOLF COURSE SAFETY SURVEY

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

GOLF COURSE HAZARD PREVENTION

The following golf course hazards must be made safe:

• Steep Grades. Where steep grades exist, restrict golf cars to designated golf car pathways where possible. In addition, identify steep grades with a suitable warning like:

A 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, 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.

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SAFETY CONSIDERATIONS

- Wet Areas. Wet grass may cause a golf car 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 golf car to lose traction and may affect stability. Repair loose terrain, chain or rope off these areas, or identify loose terrain with a suitable warning.
- Golf Car and Pedestrian Interference. Reroute golf car traffic or pedestrian traffic in congested areas wherever possible to prevent accidents. If it is impractical to reroute traffic, erect warning signs to warn pedestrians of golf car traffic, and to warn golf car operators to drive slowly, use caution, and watch for pedestrians.

MAINTENANCE REQUIRED FOR GOLF **CAR SAFETY**

Practice the following to help ensure the safety of golf car operators:

- Preventative Maintenance. Perform all scheduled maintenance in accordance with manufacturer's recommendations to provide the golfing patron with a safe, properly operating golf car.
- Personnel. Allow only qualified. trained, and authorized personnel to inspect, adjust, and maintain golf cars.

- Parts and Materials. Use only replacement parts and materials recommended by the manufacturer.
- Ventilation. Properly ventilate all maintenance and storage areas in accordance with applicable fire codes and ordinances to avoid fire hazards. Ventilation is required to remove flammable vapors and fumes from gasoline powered car storage areas. Ventilation is also required to remove hydrogen gas from the car storage areas during the battery charging process.

For electric powered golf cars, 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 5 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.

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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 golf car before beginning any maintenance.
- Properly block chassis before working underneath golf car.
- Avoid fire hazards, and have appropriate fire protection equipment available.
- Before working on an electric golf car, disable the car's electrical system in accordance with the manufacturer's instructions.
- Use only properly insulated tools when working on electrically powered golf cars 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 car 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.

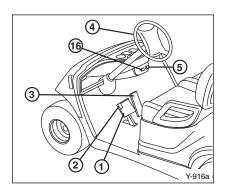
- Provide operator comment cards to assist in identifying non-periodic maintenance needs for specific golf cars.
- Maintain in a legible condition all nameplates, warnings, and instructions provided by the manufacturer.
- If new nameplates, warnings, or instructions are needed, contact your Yamaha Golf-Car Company dealer.

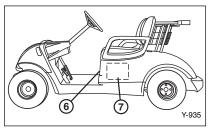
STORAGE AND BATTERY CHARGING

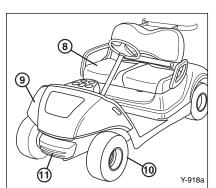
Take the following precautions to ensure maintenance worker safety:

- Only use battery charging facilities and procedures that are in accordance with applicable ordinances and regulations.
- Periodically inspect charging facilities and procedures to be certain that applicable safety codes, regulations, and procedures are being followed.

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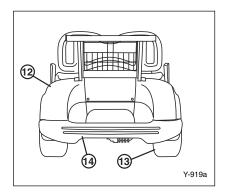


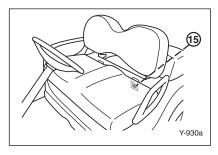




FEATURES

- ① Brake pedal
- 2 Parking brake pedal
- 3 Accelerator pedal
- (4) Steering wheel
- ⑤ Main switch
- Receptacle
- 7 Batteries
- 8 Seat
- 9 Front cowl
- 10 Front tire
- (1) Front bumper
- 12) Rear cowl
- (13) Rear tire
- (14) Rear bumper
- 15) Tow switch
- (16) FWD/REV switch





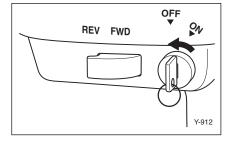
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MAIN SWITCH

The main switch controls the following items:

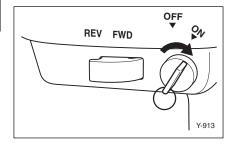


Ignition circuit is switched off.
The key can be removed only in this position.

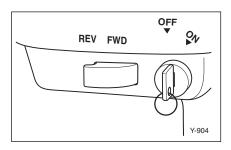


ON

Electrical circuits are switched on. The golf car can be driven.



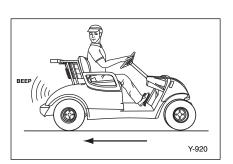
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DRIVE SELECT SWITCH

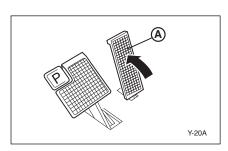
The drive select switch is used to shift the golf car into forward or reverse. After coming to a complete stop, move the lever to the desired position.

Switch Position	Car Movement
FWD	FORWARD
REV	REVERSE



NOTE: ____

The back-up buzzer will beep when the drive select switch is turned to "REV."

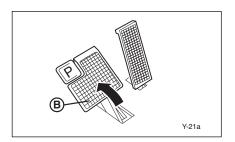


ACCELERATOR PEDAL

The accelerator pedal controls the golf car's speed.

Action	Car Speed
Depress pedal	Increase
Release pedal	Decrease

Accelerator pedal

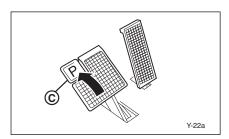


BRAKE PEDAL

Press down on the brake pedal to stop the golf car.

(B) Brake pedal

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PARKING BRAKE PEDAL

Press down on the parking brake pedal whenever parking the golf car.

© Parking brake pedal

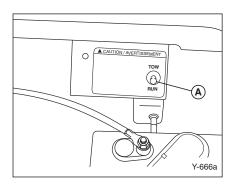
NOTE: _

Release the parking brake by depressing the accelerator pedal.

A 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 golf car to move. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

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TOW SWITCH

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

(A) Tow switch

CAUTION

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

Failure to do so may lead to drive system damage.

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

WARNING

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

- Remove main switch key.
- Apply parking brake.

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

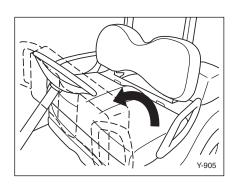
PRE-OPERATION CHECKLIST

Before each use check the following:

- ✔ Batteries
- ✓ Tire condition
- ✓ Steering system
- ✓ Back-up buzzer
- ✔ Pedal operation
- ✓ Body and chassis

SEAT

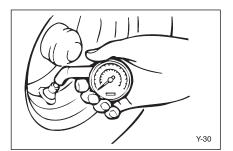
Open the seat for checking and servicing.



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BATTERIES

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



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TIRE CONDITION

Tire Air Pressure

Check the tire air pressure before operating the golf car.

Tire pressure:

For JW2: 20 psi

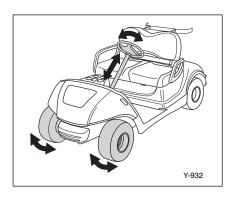
(138 kPa, 1.4 kgf/cm²)

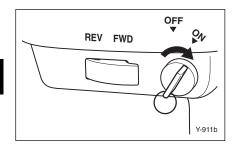
Tire Wear Limit

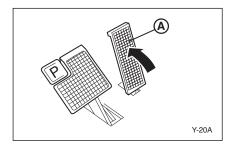
Check the tire surface for damage, cracks or embedded objects. When tire tread wears down to 0.04 in. (1 mm), replace the tire.

(A) Wear limit

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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.

BACK-UP BUZZER

Check the back-up buzzer by moving the drive select switch to "REV" for reverse. The buzzer should sound.

PEDAL OPERATION

Check the following pedal controls for proper operation. If a pedal does not work properly, consult a Yamaha dealer.

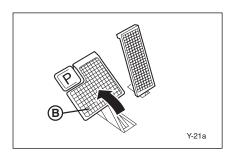
Accelerator Pedal

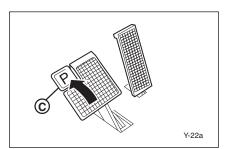
A WARNING

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 instructions in this manual.

Make sure the accelerator pedal operates smoothly.

(A) Accelerator pedal





Brake Pedal

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

B 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

NOTE: ____

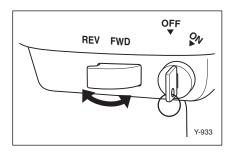
Release the parking brake by depressing the accelerator pedal.

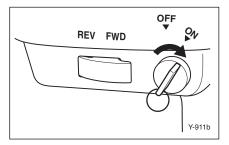
BODY AND CHASSIS

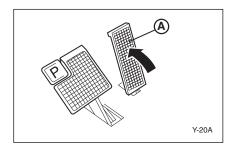
Before each use, visually inspect the golf car body and chassis for damage and/or missing parts.

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OPERATION







STARTING

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

CAUTION

Do not shift from "FWD" forward to "REV" reverse while the golf car 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 golf car may start moving unexpectedly. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

- Check that your path is clear in the direction you plan to go, and slowly depress the accelerator pedal. The golf car will start to move.
- (A) Accelerator pedal

NOTE: _

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

OPERATION



To stop the golf car, gradually press down on the brake pedal.

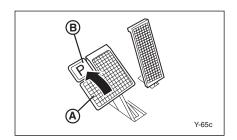
(A) Brake pedal

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

B Parking brake pedal



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



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PERIODIC MAINTENANCE CHARTS

Regular maintenance is required for the best performance and safe operation of your golf car.

▲ 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.

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FOR JW2

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

C - CHEC	Remarks	Daily Pre- Opera- tion		250 rounds 125 hrs 600 mls 1000 kms (Every 6 months)			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
	Clean battery tops, check for tightness of hold-down screws and terminals	s	S	s	s	s	s	6-2/ 8-3
	Check brake pedal freeplay and adjust if necessary	С	CA	CA	CA	CA	CA	6-4/ 8-10
	Check steering operation	С	С	С	С	С	С	6-3
	Check tire pressure, tread depth, tire surface for damage	С	CA	CA	CA	CA	CA	6-2
	Check body and chassis for damage	С	С	С	С	С	С	6-4
	Check tightness of all bolts, nuts, screws and rivets	С	С	С	С	С	С	*
	Check reverse buzzer operation	С	С	С	С	С	С	6-3
EVERY MONTH	Check electrolyte level		С	С	С	С	С	8-3/8-4
MONTH	Check for loose or broken connections		С	С	С	С	С	*
	Clean/Lube pedal control area		CL					_
EVERY 6 MONTHS	Check all wire insulation for cracks and/or worn spots			С	С	С	С	*
	Check shock absorbers for oil leaks and damaged springs			С	С	С	С	*
EVERY	Perform a discharge test				s	s	S	*
YEAR	Apply Terminal protectant				s	s	s	_
	Check rear axle bearing play for roughness or freeplay				С	С	С	*
	Check steering knuckle bushing freeplay / Adjust wheel alignment				CA	CA	CA	*
	Check wheel nut tightness, front wheel bearing play				С	С	С	*
	Check transaxle oil level and inspect for leakage				С	С	С	8-9
	Check pedal stop operation and adjust if necessary				CA	CA	CA	*
EVERY 4	Replace transaxle oil						R	*
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.

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Battery Care

A WARNING

Battery electrolyte is poisonous and dangerous, causing severe burns, etc. It contains sulfuric acid. Avoid contact with skin, eyes, or clothing.

Antidote:

EXTERNAL: Flush with water.

INTERNAL: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately.

EYES: Flush with water for 15 minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc., away.

Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries.

KEEP OUT OF REACH OF CHILDREN.

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

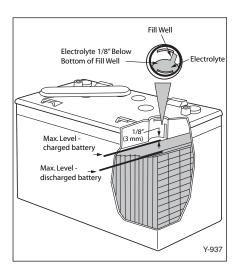
To maintain your batteries:

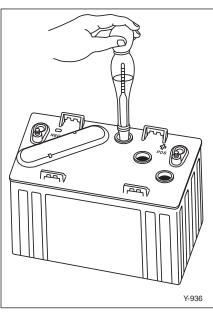
 Clean the tops of the batteries with a solution of baking soda and water, as necessary, to remove corrosion.

CAUTION

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

2. Check the fluid level before and after charging.





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

CAUTION

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

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

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Battery Charging

WARNING

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

A WARNING

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

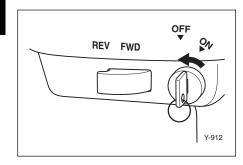
To charge the batteries in your golf car, follow the instructions contained in your battery charger's owner's manual. The following is a summary of the charging steps.

1. Turn main switch key to "OFF" position.

CAUTION

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

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



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

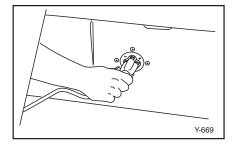
 With the charger properly connected and grounded (see charger's owner's manual), insert the DC output into the golf car receptacle.

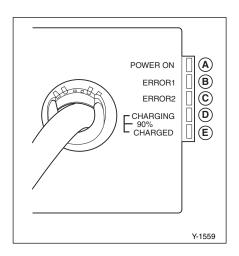
A WARNING

Do not disconnect the DC output cord from the battery receptacle when the charger is on or an arc could occur that may cause an explosion. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

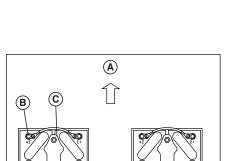
- A Power ON Light (Red)
- B Error Light 1 (Red)
- © Error Light 2 (Red)
- D Charging Light (Yellow)

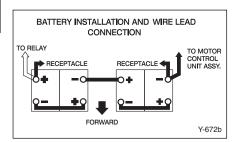
 E Charged Light (Green)
- When the charger is plugged into the AC power, the Power ON Light illuminates continuously.
- 5. If Error 1 or Error 2 light is blinking, there is a problem with the batteries or the charger. Contact your Yamaha Dealer.
- During normal charging, the Charging Light blinks or continually illuminates.
- 7. The charger turns off automatically when the batteries reach full charge.





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 After the charger has turned off, disconnect the DC output plug from the golf car receptacle by grasping the plug body and pulling the plug straight out of the receptacle.

Battery Installation

A WARNING

When working with batteries, do not put wrenches or other metal objects across the battery terminals. An arc can occur causing an explosion or fire at the battery. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

- Install the battery holddown plates and torque to 7-9 Nm (0.7-0.9 m•kg, 62-80 in•lb) as shown.
- A Forward

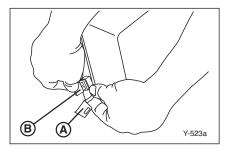
Y-751B

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

A 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. A spark
 can occur causing an explosion
 or fire at the battery. Death or
 serious personal injury can
 result from failing to comply
 with the warning instructions in
 this manual.



Fuse Type: 3 Amp, Blade Style

CAUTION

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

Fuse Replacement

A 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 instructions in this manual.

CAUTION

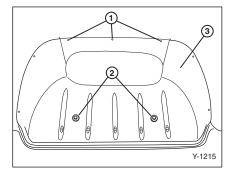
When replacing a fuse be sure the main switch is turned off to prevent accidental shortcircuiting and cause electrical system damage.

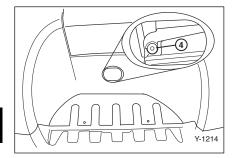
- Locate the in-line fuse holder on the main wire harness adjacent to the tow switch.
- 2. Pull fuse holder cover off.
- 3. Pull fuse out, inspect and replace if necessary.
- (A) Fuse holder
- (B) Fuse

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8

MAINTENANCE





Transaxle Oil

To check transaxle oil level:

- 1. Place the golf car 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).
- Using an 8 mm hex wrench, remove transaxle oil servicing plug located on the rear of the transaxle case.
- Transaxle oil should be at the top of the oil servicing hole or just beginning to run out of hole.

CAUTION

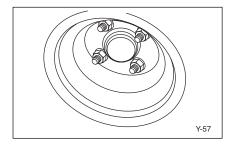
Do not allow foreign material to enter transaxle. Serious transaxle damage can result.

 If needed, add SAE80 W90 API GL-5 limited slip high performance gear oil until it is at the top of the plug hole or just beginning to run out of servicing hole.

NOTE: _

The YDRE Golf Car is equipped with an internal wet brake. Use of oil other than SAE80 W90 API GL-5 limited slip high performance 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).
- Install the bag holder insert
 and secure with two bolts (2) and seven plastic rivets (1).



NOTE: _

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

CAUTION

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 golf car:

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

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

Brake Adjustment

The brakes on your golf car are self-adjusting.

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

A WARNING

Consult your Yamaha dealer before using your golf car if you suspect brake problems. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

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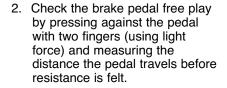
Brake Pedal Free Play Adjustment

CAUTION

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

To adjust the brake pedal free play:

 Remove the floor mat and service lid from the floor of the golf car.

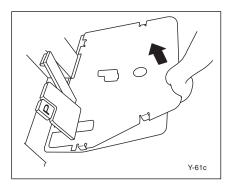


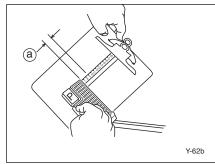
Brake pedal free play (a): 45-50 mm (1.77-1.96 in.)

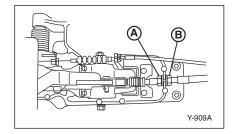
 If the free play distance needs adjusting, loosen the lock nut (A) and turn the adjusting nut (B) in or out until the free play specification is met. Then tighten the lock nut in place.

CAUTION

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







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STORAGE

Perform the following preparations when storing your golf car for extended periods of time:

NOTE: __

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

CHASSIS PREPARATION

- Verify the tire pressure is set to 20 psi (138 kPa, 1.4 kgf/cm²).
- 2. Clean exterior of the golf car and apply a rust inhibitor.
- Cover the golf car with a breathable cover and store it in a dry, well-ventilated area.

BATTERY PREPARATION

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

CAUTION

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

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

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SPECIFICATIONS

GENERAL SPECIFICATIONS

Items	YDRE
Dimensions:	
Overall length	93.4 in. (2395 mm)
Overall width	47.2 in. (1200 mm)
Overall height (steering height)	46.9 in. (1190 mm)
Height of floor	12.2 in. (310 mm)
Wheelbase	64.6 in. (1640 mm)
Tread:	
Front	34.3 in. (870 mm)
Rear	38.6 in. (980 mm)
Min. ground clearance	4.3 in. (110 mm)
Weight:	
Dry weight (without battery)	536 lb (243 kg)
Vibration Level:	
Vibration on seat (EN1032,	
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
, , , , , , , , , , , , , , , , , , , ,	Will Hot exceed 2.3 H/s
Performance:	
Factory speed setting	12 mph (19 km/h)
Maximum speed	15 mph (24 km/h)
Turning radius	9.2 ft (2.8 m)
Seating capacity	2 persons per seat
	_ po po

TRANSMISSION

Items	YDRE
Differential/reduction gear: Differential type Lubricant/capacity	Bevel gear SAE80 W90 API GL-5 limited slip high performance gear oil/ 1.43 US quarts
	(1350 mL, 1350 cc)

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SPECIFICATIONS

BATTERIES

Items	YDRE	
Battery:	Trojan - Golf Car Type T-1275 (4x12-volt)	
	RC: minimum 102 min	

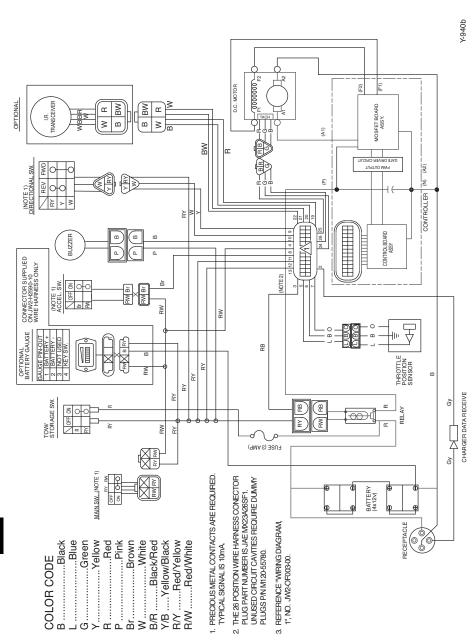
CHASSIS

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 Maintenance-Free internal transaxle disc brake 45-50 mm (1.77-1.96 in.) 0.004-0.02 in. (0.1-0.5 mm)
Parking brake: Type	Foot type; parking brake with automatic release.
Release timing (With pedal segment in second notch) (Bolt heads round parallel to arm)	0.000 ~ 0.001 in. (0.0 ~ 0.3 mm)
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–l–8.00 20 psi (138 kPa, 1.4 kgf/cm²)

PAINT CODES

OEM Code	Name	Ditzler Number
SPU60185	Glacier	918519
W44145	Emerald	48748
W49874	Garnet	701739
AH2039	Onyx Metallic	918520
AH5068	Cobalt Metallic	918521
AH5080	Anthracite Metallic	918522
AH9064	Sandstone Metallic	918523

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