

MODEL YEAR ANNÉE MODÈLE MODELLJAHR AÑO DEL MODELO ANO DO MODELO 2026

OWNER'S / OPERATOR'S MANUAL
MANUEL DU PROPRIÉTAIRE / CONDUCTEUR
BEDIENUNGS- / BETRIEBSANLEITUNG
MANUAL DEL PROPIETARIO / USUARIO
MANUAL DO PROPRIETÁRIO / OPERADOR



GOLF CAR
VOITURE DE GOLF
GOLFWAGEN
CARRO DE GOLF
CARRO DE GOLFE

A Read this manual carefully before operating this vehicle.

A Il convient de lire attentivement ce manuel avant la première utilisation du véhicule.

A Bitte lesen Sie diese Bedienungsanleitung sorgfältig durch, bevor Sie das Fahrzeug in Betrieb nehmen.

Lea este manual atentamente antes de utilizar este vehículo.

🛕 Leia este manual com atenção antes de operar este veículo.



DR2 AC Li

J5B-F8199-34



Original instructions
Notice originale
Originalbetriebsanleitung
Manual original
Instruções originais







MODEL YEAR 2026

**OWNER'S / OPERATOR'S MANUAL** 



A Read this manual carefully before operating this vehicle.



DR2 AC Li

J5B-F8199-34-E0

# **EC Declaration of Conformity**

conforming to Directive 2006/42/EC

### We YAMAHA MOTOR CO., LTD

200-1 Sakagawa, Kakegawa, Shizuoka, Japan

declare in sole responsibility, that the product

DR2E26 AC-L Li GOLF-CAR (J5B-400101~)

to which this declaration applies, conforms to the essential health and safety requirements of Directive 2006/42/EC

and to the other relevant Directive of EC.

### 2014/30/EU

(if applicable)

To effect correct application of the essential health and safety requirements stated in the Directive of EC, the following-standards and/or technical specifications were consulted:

### ANSI Z535.4-2011, ANSI Z130.1-2020

Authorized Representative YAMAHA MOTOR EUROPE N.V. Koolhovenlaan 101,1119 NC Schiphol-Rijk, The Netherlands

Shizuoka, Japan 1 April 2025

Product Development Div.

**Engineering Section** 

M. Horikawa.

Makoto Horikawa

# **UKCA** Declaration of Conformity

conforming to The Supply of Machinery (Safety) Regulations 2008

### We YAMAHA MOTOR CO., LTD

200-1 Sakagawa, Kakegawa, Shizuoka, Japan

declare in sole responsibility, that the product

DR2E26 AC-L Li GOLF-CAR (J5B-400101~)

to which this declaration applies, conforms to the essential health and safety requirements of The Supply of Machinery (Safety) Regulations 2008 and to the other relevant regulations of UKCA.

### Electromagnetic Compatibility Regulations 2016

(if applicable)

To effect correct application of the essential health and safety requirements stated in the regulations of UKCA, the following-standards and/or technical specifications were consulted:

### ANSI Z535.4-2011, ANSI Z130.1-2020

Authorized Representative in United Kingdom YAMAHA MOTOR EUROPE N.V., BRANCH UK Units A2-A3, Kingswey Business Park,Forsyth Road Woking, SY. GU21 5SA, United Kingdom

Shizuoka, Japan 1 April 2025

Product Development Div.

**Engineering Section** 

M. Horikawa.

Makoto Horikawa

## IMPORTANT PRODUCT INFORMATION

### The United States Export Control

You will recognize that the Product is manufactured in the United States. Therefore, you may not use, export or reexport the Product except as authorized by the United States laws and the laws of the jurisdiction(s) in which the Product was obtained. The Product is subject to the United States export control laws. In particular, but without limitation, the Product may not be exported or reexported, whether directly or indirectly:

- (a) into any U.S. embargoes or economic sanctioned countries or;
- (b) to anyone on the U.S. Denied Persons List or Entity List or;
- (c) to anyone on the U.S. Specially Designated Nationals List, Specially Designated Terrorists List or Specially Designated Narcotic Traffickers List.

# 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 Motor Powered Products Co., Ltd.

DR2 AC Li
OWNER'S/OPERATOR'S MANUAL
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# IMPORTANT MANUAL INFORMATION

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

$\triangle$	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.
<b>▲</b> WARNING	A WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
NOTICE	A NOTICE indicates special precautions that must be taken to avoid damage to the vehicle or other property.
TIP	A TIP provides key information to make procedures easier or clearer.

### TIP

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

### **Recycling and Disposal**

- Dispose of the used batteries according to local regulations and recycling guidelines.
- Do not dispose of batteries with household waste.
- To prevent short circuits, cover the battery terminals with adhesive tape.
- When returning batteries, return them to the authorized dealer where you purchased them.
- Please consult authorized dealer or visit to battery company website for information on the effects of contained substances of batteries.

# **IMPORTANT MANUAL INFORMATION**





Symbol	
	Do not dispose of batteries with household waste.
	Batteries are recyclable. Follow the local regulations and recycling guidelines.
Pb	Batteries containing more than 0.004% Pb.

# **CONTENTS**

-	$\sim$	_	-
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**IMPORTANT LABELS** 

**⚠ SAFETY INFORMATION** 

CONTROLS

3

5

6

PRE-OPERATION CHECKS

OPERATION

MAINTENANCE AND ADJUSTMENT

STORAGE

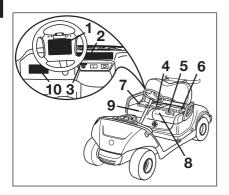
**SPECIFICATIONS** 

WIRING



# **A SAFETY AND INSTRUCTION LABELS**

Read the following labels carefully before operating your golf car. If any of these labels are damaged or missing, contact a Yamaha dealer for replacements.



1

### **▲ WARNING/AVERTISSEMENT**

- To reduce the risk of accidents and injury or DEATH: Pour réduire le risque d'accidents et de blessures ou DE MOR 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.
- Ne jamais rouler à des vitesses trop rapides pour le terrain.
  - pour les conditions de visibilité ou pour vous.

    Avancer avec le plus grand soin dans les zones encombrées, quand vous faites marche arrière, et quand vous roulez sur les surfaces mouillées, accidentées ou meubles.

### **OPERATING INSTRUCTIONS**

- Read the warning label on the beverage Accelerator holder panel before operating.

  Be sure occupants are seated.

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

YAMAHA

### DIRECTIVES D'UTILISATION

- · Lire l'avertissement fixé sur le porte-gobelet avant de faire fonctionner
- Sassurer que les occupants sont assis.
  Choisir "FORWARD" ou "REVERSE", puis mettre le contact en mettant l'interrupteur principal sur "ON".
- Appuyer sur l'accélérateur pour commencer à avancer Le moteur démarre et libère automatiquement le frein de stationnement.
- Pour arrêter, relâcher l'accélérateur et appuyer sur la pédale de frein. Avant de quitter le véhicule, appuyer sur le frein de stationnement jusqu'à ce qu'il se verrouille.
- Arrêter complètement avant de faire marche
- Lire le Manuel du propriétaire/de l'utilisateur pour davantage de renseignements.

\*\*\*-K7762-\*\*

2

### **▲ WARNING/AVERTISSEMENT**

o reduce the risk of accidents and injury or DEATH:

or educe the risk of accidents and injury or DEATH:
Read the label located on the
steering wheel before operation.

Keep entire body inside vehicle.

Operate only when authorized
and only in designated areas.

- Opteres from diver's seat only.

This vehicle is restricted to 2

- Step arking Trake before leaving whiche
- Turn main switch to "OFF" and remove key occupants per bench seat.

Do not start vehicle until all occupants are seated.

when not in use. Do not operate or ride while distracted or under the influence of alcohol or drugs. Pour réduire le risque d'accidents et de blessures ou DE MORT: • Lisez l'étiquette située sur le volant avant l'utilisation. • Condui Utiliser seulement lorsque lusage est autorisé et dans les zones designées.

Ne conduire qu'en étant assis sur le siège du

conducteur Ce véhicule est limité à 2 occupants par banquette. Ne pas démarrer avant que tous les occupants soien.
Rester assis et bien se tenir quand le véhicule est en marche.
Garder toute partie du corps dans le véhicule.

nent dans les virages Conduisez directement en montée et

en descente.

• Tourner linterrupteur principal à "OFF" et enlever la clé quand le véhicule n'est

et eniever la cie quand le vehicule n'est pas utilisé.

N'utilisez pas/n'occupez pas le véhicule lorsque vous êtes distrait ou sous l'influence de l'alcool ou de drogues.

3





### **A WARNING**

### **A AVERTISSEMENT**

Electrical shorts can result in

Do not make connection between positive and negative battery termin

Les courts-circuits électriques peuvent causer des brûlures.

 Ne pas relier la borne positive et la borne négative d'une même batterie.



### **A WARNING** High voltage. Risk of shock.

### **A AVERTISSEMENT**

- Do not touch uninsulated
- electrical terminals or wires.
- Do not open battery case. No user serviceable parts inside Battery must be serviced only by trained personnel.
- Haute tension. Risque d'électrochoc.
- Ne touchez pas les bornes ou les fils électriques non isolés.
- N'ouvrez pas le boîtier de la batterie.
- Aucune pièce réparable par l'utilisateur La batterie ne doit être entretenue que par du personnel qualifié.

5

# NOTICE

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

- Drive system damage when towing.
- Complete battery discharge and battery damage when storing long term.
- After moving switch from "RUN" to "TOW", wait 15 seconds minimum before switching again.

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

- Dommages de système d'entrainement en remourquant.
- Causer une decharge totale de la batterie et endommager la batterie pendant l'entreposage a long terme.
- Apres avoir change l'interrupteur de position "RUN" a position "TOW", attendre un minimum de 15 seconds avant de le remettre.

**YAMAHA** 

\*\*\*-K8298-\*\*

6

DATE OF CONSTRUCTION: \*\*\*. \*\*\*\* CE YAMAHA MOTOR POWERED PRODUCTS CO., LTD 200-1 SAKAGAWA, KAKEGAWA, JAPAN

COUNTRY OF ORIGIN: USA

MODEL: \*\*\*\*\*\*\*\*\*\*\*\* MAX. BATTERY WEIGHT: \*\* kg NOMINAL SYSTEM VOLTAGE: \*\*\*\*V MAX.POWER: \*\*\* hp (\*\*\* kW)

WEIGHT (NO BATT): \*\*\*\*\* kg VEHICLE LOAD CAPACITY: \*\*\* kg PER SEAT, \*\* kg BAGWELL



\*\*-F4236

7



8







Li-ion







9



HOT

10

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.

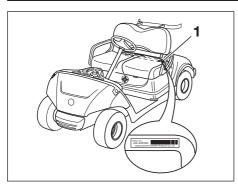
Recommended

Front Rear Tire size

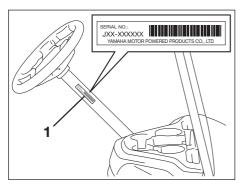
205/65-10, 4ply 151 kPa, 22 psi / 151 kPa, 22 psi 18x8.50-8, 4ply 137 kPa, 20 psi / 137 kPa, 20 psi

YAMAHA \*\*\*-F1696-\*\*

# **IMPORTANT LABELS**



1. Vehicle serial number



1. Vehicle serial number

# **SERIAL NUMBER**

The serial number is identified in the location shown.

### TIP \_\_\_\_\_

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

Serial number:

Yamaha golf cars 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 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 4 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 effect 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.

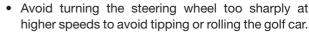




### WHILE OPERATING THE GOLF CAR

- 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.
- 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.





 Always drive slowly straight up or straight down slopes – never at an angle to avoid tipping or rolling the golf car.



 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.

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:

### **WARNING**

Do not operate golf cars when under the influence of alcohol or drugs. Death or serious personal injury can result from failing to comply with the safety and warning instructions affixed to the golf car.

### **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:

# **WARNING**

Descend steep grades slowly with foot on brake. Death or serious personal injury can result from failing to comply with the safety and warning instructions affixed to the golf car.

- 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.
- Wet Areas. Wet grass may cause a golf car to lose traction and may affect stability. Golf car operators should 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.

# 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 to avoid any unexpected vehicle movement.
- Properly block chassis before working underneath golf car to avoid any unexpected vehicle movement.
- When working on the fuel system or 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 golf car, disable the car's electrical system in accordance with the manufacturer's instructions to avoid electrical shock or damage to the electrical system.
- Use only properly insulated tools when working on electrically powered golf cars or around batteries to avoid electrical shock or damage to the electrical system.

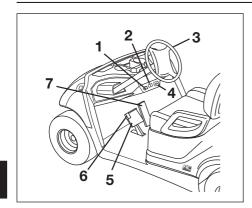
- Do not open battery case. The battery has no user serviceable parts.
- Maintain all safety devices including brakes, steering mechanisms, warning devices and governors, in a safe operating condition. Do not modify these safety devices as supplied by the manufacturer.
- After each maintenance or repair, 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 dealer.

### STORAGE AND BATTERY CHARGING

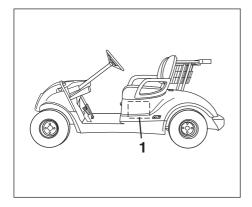
Take the following precautions to ensure maintenance worker safety:

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

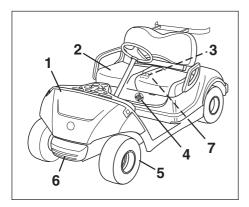


### **FEATURES**

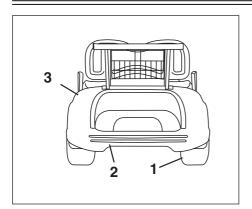
- 1. Main switch
- 2. Drive select switch
- 3. Steering wheel
- 4. Battery gauge
- 5. Brake pedal6. Parking brake pedal
- 7. Accelerator pedal



1. Battery



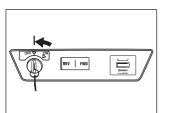
- Front body 1
- 2. Seat
- 3. Tow switch
- 4. DC charger receptacle
- 5. Front tire
- 6. Front bumper
- 7. Fuses



- 1. Rear tire
- 2. Rear bumper
- 3. Rear body

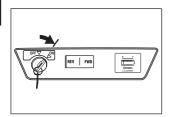
### **MAIN SWITCH**

The main switch controls the following items:



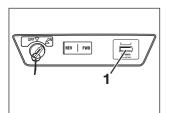
"OFF"

All electrical control circuits are switched off (controller remains energized). The golf car cannot be operated. The key can be removed only in this position.



"ON"

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

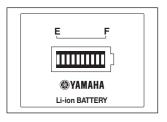


### **OPTIONAL BATTERY GAUGE**

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

As the battery energy decreases, the LEDs will move to the left toward the "E." When the LED light below the "E" is the only one lit, the battery must be charged.

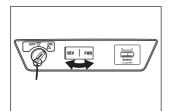
### Battery gauge



Use the table to determine the remaining battery capacity.

For example, if 7 of the 10 LED lights are lit, batteries still has SOC (state of charge) 64-71 % left. When the battery falls to SOC 20% or less, 1 LED will blink on and off, meaning the battery should be charged immediately.

BAR LEVEL	1 BLINK	2	3	4	5	6	7	8	9	10
SOC (%)	0-20	20-29	29-37	37-46	46-54	54-64	64-71	71-80	80-88	88-100



### **DRIVE SELECT SWITCH**

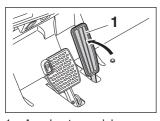
The drive select switch is used to shift the golf car into forward or reverse. After coming to a complete stop, move the lever to the desired position.

Switch Position	Car Movement
FWD	FORWARD
REV	REVERSE



### TIP

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

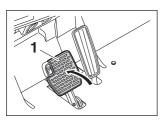


### **ACCELERATOR PEDAL**

The accelerator pedal controls the golf car's speed.

Action	Car Speed
Depress pedal	Increase
Release pedal	Decrease

### 1. Accelerator pedal

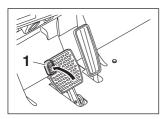


1. Brake pedal

### **BRAKE PEDAL**

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

# **CONTROLS**



Parking brake pedal

### PARKING BRAKE PEDAL

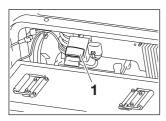
Press down on the parking brake pedal whenever parking the golf car.

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



1. Tow switch

### TOW SWITCH

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

### 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.

### TIP \_\_\_\_\_

If move the TOW switch from RUN to TOW while the main key is ON, the buzzer will sound.

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**

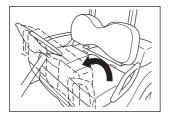
To keep car from moving while performing pre-operation checks:

- · Remove main switch key.
- Apply parking brake.

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

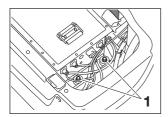
### **PRE-OPERATION CHECKS**

Refer to the Periodic Maintenance and adjustment charts on pages 21 and 23.

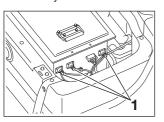


### **SEAT**

Lift up the seat for checking and servicing.



### Battery hold-down



### Battery terminal

### **BATTERY**

Check that the battery is held securely in place to prevent it from being damaged from vibration or jarring. Check the battery terminals for corrosion and tightness.



# **TIRE CONDITION**

### **Tire Air Pressure**

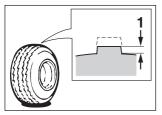
Check the tire air pressure before operating the golf car.

### Tire pressure:

137 kPa (1.40 kgf/cm<sup>2</sup>, 20 psi)



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



Wear limit

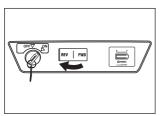


### STEERING SYSTEM

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.



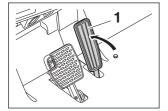
### **REVERSE ALARM**

Check the reverse alarm by moving the drive select switch to "REV" for reverse. The alarm should sound.

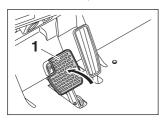
### **PEDAL OPERATION**

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

**Accelerator Pedal** 



### 1. Accelerator pedal



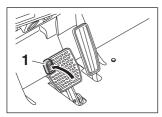
1. Brake pedal

# **WARNING**

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

### **Brake Pedal**

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



1. Parking brake pedal

### **Parking Brake Pedal**

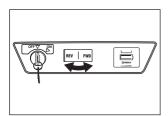
Make sure the parking brake pedal locks in place with a positive click, and releases when the accelerator pedal is pressed.

### TIP \_\_\_\_

Release the parking brake by depressing the accelerator pedal.

### **BODY AND CHASSIS**

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



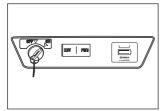
### **STARTING**

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

### NOTICE

Do not shift from "FWD" forward to "REV" reverse while the golf car is moving. Transmission damage can result.

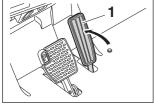
Turn the main switch to "ON."



# **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 safety instructions in this manual.

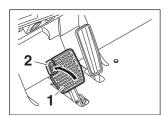
3. Check that your path is clear in the direction you plan to go, and slowly depress the accelerator pedal. The golf car will start to move.



### TIP \_

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

1. Accelerator pedal



- 1. Brake pedal
- 2. Parking brake pedal

### **STOPPING**

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

### NOTICE

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

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

### PERIODIC MAINTENANCE AND ADJUSTMENT CHARTS

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

Even if the vehicle isn't driven for the stated mileage or engine hours, the month maintenance intervals should still be followed. Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

# **♠** WARNING

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

### **NOTICE**

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

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

	Remarks	Daily Pre- Opera- tion	40 rounds 20 hours 100 miles 160 kms (Every Month)	250 rounds 125 hrs 600 mls 1000 kms (Every 6 months)	500 rounds 250 hrs 1200 mls 2000 kms (Every Year)	1000 rounds 500 hrs 2500 mls 4000 kms (Every 2 years)	2000 rounds 1000 hrs 5000 mls 8000 kms (Every 4 years)	Page
PRE-OP	Charge battery	S	S	S	S	S	S	10 / 24
	Check for tight- ness of hold- down screws and terminals	S	S	S	S	S	S	17
	Check brake pedal freeplay and adjust if necessary	CS	CA	CA	CA	CA	CA	18 / 39
	Check steering operation	CS	CS	CS	CS	CS	CS	18
	Check tire pres- sure, tread depth, tire surface for damage	CS	CA	CA	CA	CA	CA	17

<sup>\*</sup> 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.

<sup>\*\*</sup> Do no operate vehicle if discrepancy is found.

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

JJ JILOK	K CA - CHECK AND ADJUST R - REPLACE S - SERVICE CL - CLEAN AND LUBHICATE L - LUBR 40 rounds 250 rounds 500 rounds 1000 rounds 2000 rounds							
	Remarks	Daily Pre- Opera- tion	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	Check body and chassis for damage	cs	CS	CS	CS	CS	CS	19
	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	18
	Check for the proper operation of pedal control area**	CS	CS	CS	CS	CS	CS	18
EVERY MONTH	Check for loose or broken connections		CS	CS	CS	CS	CS	*
	Clean/Lube pedal control area		CL	CL	CL	CL	CL	_
	Check the debris around the battery and resistor.		CS	CS	CS	CS	CS	41
EVERY 6 MONTHS	Check all wire in- sulation for cracks and/or worn spots			CS	CS	CS	CS	*
	Check brake cable operation     Inspect for abrasions and damage, and replace if necessary			CS R	CS R	CS R	CS R	39
	Check shock absorbers for oil leaks and dam- aged springs			CS	CS	CS	CS	*
EVERY YEAR	Apply battery Ter- minal protectant				S	S	S	_
	Check rear axle bearing play for roughness or freeplay				CS	CS	CS	*

<sup>\*</sup> 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.

<sup>\*\*</sup> Do no operate vehicle if discrepancy is found.

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

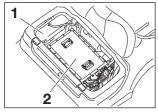
	Remarks	Daily Pre- Opera- tion	40 rounds 20 hours 100 miles 160 kms (Every Month)	250 rounds 125 hrs 600 mls 1000 kms (Every 6 months)	500 rounds 250 hrs 1200 mls 2000 kms (Every Year)	1000 rounds 500 hrs 2500 mls 4000 kms (Every 2 years)	2000 rounds 1000 hrs 5000 mls 8000 kms (Every 4 years)	Page
EVERY YEAR	Check steering knuckle bushing freeplay / Adjust wheel alignment				CA	CA	CA	*
	Check wheel nut tightness, front wheel bearing play				CS	CS	CS	*
	Check transaxle oil level and inspect for leakage				CS	CS	CS	37
	Adjust parking brake release				CA	CA	CA	40
	Inspect pedal components**				CS	CS	CS	*
EVERY 4 YEARS	Replace transax- le oil						R	*
	Inspect brake shoes and adjust or replace if nec- essary						CA	*

<sup>\*</sup> 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.

### TIP \_\_\_\_\_

Some maintenance items need more frequent service if you drive in unusually wet, dusty, sandy, or muddy areas.

<sup>\*\*</sup> Do no operate vehicle if discrepancy is found.



- Resistor
- 2. Lithium-ion battery

### **BATTERY CHARGING**

# **WARNING**

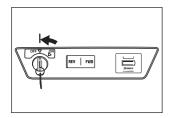
- Read and understand the owner's manual provided with your golf car's battery charger before charging battery. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.
- Remove any and all debris that collects around the resistor heat shield and the resistor. Allowing debris build up can create a fire hazard.
- The Lithium-ion battery charging system is equipped with a resistor. This resistor activates at the end of the charging cycle. When the resistor is activated the resistor heat shield and resistor will become hot.

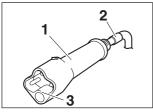
To charge the battery in your golf car, follow the instructions contained in your battery charger's owner's manual. The following is a summary of the charging steps.

### Battery ambient temperature

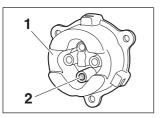
Charging : 5-49 °C (42-121 °F)

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

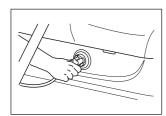




- DC output plug for Lithium-ion battery
- 2. Identification wrap (Green)
- 3. Rib



- Receptacle for Lithiumion battery
- 2. Dummy pin



2. Check the DC output plug and code for damage.

### TIP

The location of the dummy pin is different between the flood battery and the Lithium-ion battery.

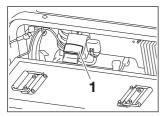
 With the charger properly connected and grounded (see charger's owner's manual), insert the DC output plug into the DC charger receptacle.

# **WARNING**

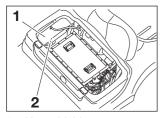
Do not disconnect the DC output plug from the DC charger receptacle when the charger is on or an arc could occur that may cause an explosion.

### **NOTICE**

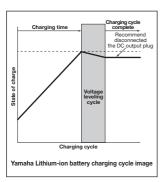
Do not insert the DC output plug from a Lithium-ion battery charger into the DC charger receptacle of a car equipped with a different battery type. DC plug or receptacle damage can result. See the identification procedure on page 24.



1. Tow switch



- 1. Heat shield
- 2. Resistor



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

#### **NOTICE**

- Put the tow switch in the "TOW" position after connect DC plug to receptacle, otherwise damage to the electrical system may result.
- Use only the Yamaha provided Lithium-ion battery charger that is rated for use with a Lithium-ion battery powered Yamaha Golf Car. Serious battery damage can result. Thoroughly read and understand the user manual supplied with your charger for Yamaha Lithium-ion battery system.
- 5. Once the battery is fully charged, the charge cycle will stop automatically.
- 6. After the end of the charge cycle, a battery voltage leveling cycle begins. The voltage leveling cycle turns on the resistor.
- After the battery charging and voltage leveling cycle has finished, disconnect the DC output plug from the DC charger receptacle by grasping the plug body and pulling the plug straight out of the receptacle.

#### TIP \_\_\_

- Recommended to disconnect after the voltage leveling cycle for efficient use of regenerative charging. (See the figure on the left)
- After disconnecting the DC output plug from receptacle, wait at least 3 seconds before switching the tow switch from "TOW" to "RUN".

#### **FUSE REPLACEMENT**

## **WARNING**

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

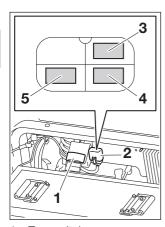
#### **NOTICE**

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

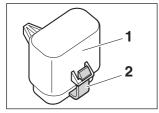
The fuse holder is located under the seat. (next to the tow switch)

#### To access the fuse holder

- Lift up the seat (see page 16).
- 2. Locate the fuse holder next to the tow switch.



- 1. Tow switch
- 2. Fuse holder
- 3. USB Mini fuse (1.0 A, 58V)
- 4. Main Mini fuse (5.0 A, 58V)
- 5. MCU Mini fuse (3.0 A, 58V)



- Fuse holder cover
- 2. Locking tab

- Depress the locking tab of the fuse holder, and then remove the fuse holder cover.
- 4. Pull the fuse out and inspect it. Replace the fuse if necessary.
- 5. Install the fuse holder cover.
- 6. Close the seat.

#### **BATTERY CHARGER**

#### **Prepare for Emergencies**

Be prepared for possible injury or fire.

Keep the following items handy:

- First aid kit
- · Fire extinguisher
- Emergency phone numbers

Read the text located on the case of the charger before operating or using the charger.

#### **Features**

**Switch-Mode Design:** High-efficiency operation with smooth, ripple-free DC output.

**10-LED Display:** Displays state of charge and charge error conditions.

**Charge Protection:** Protects from improper connection, overload and excessive temperatures.

Programmed safety features include charge time monitoring and over temperature protection.

#### INSTALLATION

## **WARNING**

RISK OF FIRE - Use this charger only on circuits with a 15-amp or higher branch circuit protection (circuit breaker or fuse) in accordance with the national electrical code, ANSI/NFPA 70 and all applicable local codes and ordinances.

When using an extension cord, use only a grounded, 3-wire, 12-AWG cord no longer than 15 m (50 ft.). The use of an improper extension cord could result in a risk of a fire or electric shock.

## **MARNING**

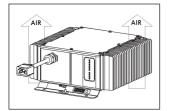
The output of chargers with greater than 48 volts may pose an energy and/or shock hazard under normal use.

#### **NOTICE**

Avoid connecting a charger and another device to a single 15A/20A circuit or the circuit may become overloaded.

The AC line connected to the charger must be capable of supplying 12 Amperes to the charger.

Also, maximum Ampere varies depending on AC voltage. Please refer to "AC Input" in General Specifications.



#### **MOUNTING**

## **MARNING**

This charger is not designed for on-board use. Improper mounting or installation could result in a risk of fire or damage to the golf car.

Mount the charger on a shelf or on the wall with adequate ventilation.

Ideally it will be mounted horizontally with airflow from below. If it will be mounted vertically, it is recommended that the AC-input cord be at the lower end of the charger.

Keep the charger free of oil, dirt, mud or dust to keep the cooling fins operating as efficiently as possible. Mount the charger by the mounting plate using appropriate fasteners.

#### TIP

The charger's AC plug must be located at least 46 cm (18 in.) above the ground and the display visible to the user.

#### **WARNING**

Chargers can ignite flammable materials and vapors. Do not use near fuels, grain dust, solvents or other flammables.

#### **GROUNDING**

The battery charger must be grounded to reduce the risk of electric shock. The charger is equipped with a 3-prong AC cord set. The AC cord set must be connected to an appropriate receptacle that is properly installed and grounded in accordance with the National Electrical Code and all local codes and ordinances.

## **MARNING**

Improper connection of the equipment-grounding conductor can result in a risk of an electric shock.

The conductor with insulation that has an outer surface that is green, with or without yellow stripe(s), is the equipment-grounding conductor. If repair or replacement of the charger's AC cord set is necessary, do not connect the equipment-grounding connector to a live terminal.

#### **CHARGING**



To reduce the risk of an electric shock, connect only to a properly grounded, single-phase (3-wire) outlet. Also, refer to grounding instructions.

## **WARNING**

Risk of electric shock! Do not touch any uninsulated parts of the charger output plug, DC charger receptacle or battery terminals.

## **WARNING**

Surfaces may be hot. To avoid risk of burns, do not touch.

#### **NOTICE**

Charge only Yamaha Lithium-ion battery systems manufactured by RoyPow Technology Co., Ltd. Damage to the charger and batteries may result if this charger is used on the wrong battery type.

## **MARNING**

Visually and manually inspect to verify that the DC output cord, plug and battery charging receptacle are in good working condition before each and every use. Do not use the charger under any of the following conditions:

- The DC charging receptacle does not grip the DC output plug tightly, is loose or does not make a good electrical connection.
- The DC output plug or charging receptacle feels hotter than normal.
- The DC output plug or charging receptacle contacts are bent, corroded, or are dark or bluish in appearance.
- The DC output plug, cords, receptacle or equipment-charging wiring are cut, worn, broken or have any exposed conductors.
- The DC output plug, cords, charger or receptacles are damaged or distressed in any way.

Using the charger with any of the above symptoms could result in a fire, property damage or personal injury.

## **WARNING**

Do not disconnect the DC output plug from the DC charger receptacle when the charger is on. If the charger must be stopped, first disconnect the AC power supply cord from its AC outlet, and then disconnect the charger DC output plug from the DC charger receptacle.

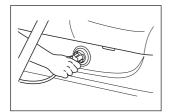
#### **M** WARNING

Whenever disconnecting a AC or DC cord set plug from receptacle, pull from the plug body and not from their respective cords.

The instructions printed on the charger (shown below) are for daily reference. The charger is factory preset for use with Yamaha Lithium-ion golf car battery.

#### **OPERATING INSTRUCTIONS**

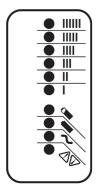
- PLUG AC CORD INTO A GROUNDED RECEPTACLE
- PLUG DC CORD INTO DC CHARGER RECEPTACLE
- 3. CHARGE CYCLE WILL BEGIN AFTER A FEW SECONDS AND AMMETER WILL TURN ON
- 4. CHARGER SHUTS OFF AUTOMATICALLY WHEN BATTERIES ARE CHARGED



Connect battery charger's AC cord set to AC power. Then, connect the DC output plug to the vehicle charging receptacle by grasping the plug handle and pushing the plug straight into the DC charger receptacle. The charger will start automatically.

Upon connection to AC power source, the lower four LEDs come on as a Power-On Self-Test, then the AC power LED turns on. Upon connection to battery pack, output indicators turn on to indicate charging is active.

Under normal charge circumstances, the LEDs operate as follows:



Ammeter (Amber)	On:	Displays approximate scale of the output current during charging.
	Blinking:	High internal charger temperature. Current output reduced.
80% Charge (Amber)	On:	Charging, >80% charged.
	Blinking:	With no battery connected, the number of flashes indicates the algorithm ID number.
100% Charge (Green)	On:	Charging complete. Charger in Storage Mode.
AC On (Amber)	On:	The AC power is good.
Fault (Red)	Blinking:	Charger error. Refer to <b>Troubleshooting</b> on next page.

To reset charger after 100% charge (Green LED), disconnect the DC plug from battery for more than 30 seconds. Then, reconnect DC plug.

#### TROUBLESHOOTING

1. LED Error Codes (For Battery Condition)

## **WARNING**

Incorrect reassembly may result in a risk of electric shock or fire. The following procedures are intended only to determine if a malfunction may exist in the charger.

## **WARNING**

To reduce the risk of electric shock, always disconnect the charger's AC cord set plug from AC power and its DC output plug from the vehicles DC charger receptacle before attempting any maintenance or cleaning.

## **WARNING**

Do not operate the charger if it is malfunctioning. Personal injury or property damage could result.

If a fault occurs, count the number of red flashes between pauses and refer to the table below:

Red Flashes	Cause	Solution
*	Battery High Voltage	Check battery size and condition and reset charger (i.e., remove the DC cord from the vehicle for 15 seconds).
**	Battery Low Voltage	Check battery size and condition and reset charger (i.e., remove the DC cord from the vehicle for 15 seconds).
***	Charge Timeout caused by battery pack not reaching required voltage.	Check connections.
	Charger output was reduced due to high temperatures.	Operate charger at a lower ambient temperature.
***	Unable to communicate with Battery Management System.	Check DC connection to vehicle and battery.
****	Over-Temperature: Charger shut down due to high internal temperature.	Ensure sufficient cooling air flow and reset charger (i.e., remove the DC cord from the vehicle for 15 seconds).
***	Charger Internal Fault	Reset charger (i.e., remove the AC power or DC con- nection for 15 seconds). Return to a qualified service depot if the fault persists.

## **MARNING**

Have qualified service technician inspect if problems persist.

#### 2. Hardware System Faults

Problem Description	Cause	Remedy
Charger does not start. No LEDs illuminate or blink when AC cord is connected.	No AC power to charger.	Ensure correct voltage at AC outlet. Check AC cord connections. Replace AC cord if damaged.
Charger does not start charging when DC cord set is plugged into charger receptacle and the Amber AC On LED is illuminated.	Incorrect wiring or disconnection from DC cord, charger receptacle and batteries.	Ensure polarity for wiring is correct from DC cord, charger receptacle and batteries.

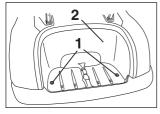


Have qualified service technician inspect if problems persist.

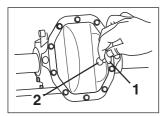




- 1. Place the golf car on a flat, level surface.
- Remove two bolts and remove the rear floor cover.
- 3. Place an oil pan under the transaxle case.



- 1. Bolt
- Rear floor cover



- 1. Oil level plug
- 2. Oil level plug hole

4. Clean the area around the oil level plug and then remove the plug.

#### NOTICE

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

- 5. The oil level should be between 0 to 25 mm (1 in.) from bottom edge of transaxle oil level hole.
- If the level is low, add sufficient oil of the recommended type to raise it to the specified level.

#### Recommended oil brand:



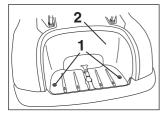
Available viscosity index:

SAE 80W-90 or SAE 90

Transaxle oil change quantity:

355 cc (355 ml, 0.38 US qt)

7. Install the oil level plug.

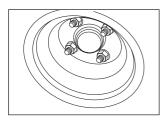


- 1. Bolt
- Rear floor cover

Install the rear floor cover and secure with two bolts.

#### TIF

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



#### WHEEL REPLACEMENT

#### **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.

To remove and install a wheel on your golf car:

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

#### Wheel nut tightening torque:

100 N·m (10 kgf·m, 74 lb·ft)

#### **BRAKE ADJUSTMENT**

The brakes on your car are self-adjusting.

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

## **WARNING**

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

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

# BRAKE PEDAL FREE PLAY ADJUSTMENT

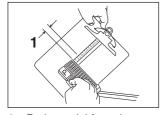
Check the brake pedal free play by pressing against the pedal with two fingers (using light force) and measuring the distance the pedal travels before resistance is felt.

#### Brake pedal free play:

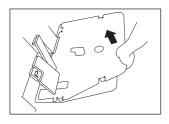
50-55 mm (1.97-2.17 in.)

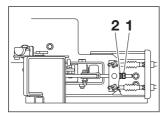
To adjust the brake pedal free play:

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



1. Brake pedal free play





- 1. Locknut
- 2. Adjusting nut

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

#### **WARNING**

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

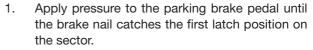
Premature brake wear can result.

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

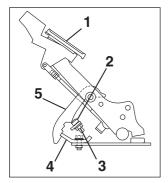
# PARKING BRAKE RELEASE ADJUSTMENT

#### NOTICE

Before performing parking brake release adjustment, adjust brake pedal free play.



- 2. Loosen the locknut and turn the bolt counterclockwise until it contacts the sector.
- 3. Turn the bolt clockwise 1/3 of a turn (120 degrees), then tighten locknut.



- 1. Parking brake pedal
- 2. Bolt
- 3. Locknut
- 4. Brake nail
- Sector

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

#### **NOTICE**

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

#### TIP \_\_

Turn main switch key to "OFF" position, lift seat and put the tow switch in the "TOW" position. Remove key from main key switch, and store key in a safe place.

#### CHASSIS PREPARATION

- Verify the tire pressure is set to 137 kPa (1.40 kgf/cm², 20 psi).
- 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**

Leave the battery in the golf car during storage.
 Do not charge it before storage.

The charger should not be left connected to the car during storage.

1 month or less in storage

Storage temperature: -20 - 45 °C (-4 - 113 °F)

More than 1 month in storage

Storage temperature : 0 – 35 °C (32 – 95 °F)

SOC range(%): 30 - 50 % (48 - 52.8 V)

Must be discharged and charged every 6 months.

Remove any grass, leaves, branches or other objects from around the battery and resistor if necessary.

## **SPECIFICATIONS**

## **GENERAL SPECIFICATIONS**

Items	DR2 AC Li		
Dimensions:			
Overall length	2380 mm (93.7 in.)		
Overall width	1210 mm (47.6 in.)		
Overall height (steering height)	1215 mm (47.8 in.)		
Overall height (Sun top height)	1785 mm (70.3 in.)		
Height of floor	295 mm (11.6 in.)		
Wheelbase	1635 mm (64.4 in.)		
Tread:			
Front	880 mm (34.6 in.)		
Rear	990 mm (39.0 in.)		
Ground clearance	110 mm (4.3 in.)		
Weight:			
Curb weight (With Lithium-ion battery)	305 kg (672 lb)		
Curb weight (With Sun top, W/S, Lithium-ion battery)	328 kg (724 lb)		
Noise and vibration levels:			
Noise Level at acceleration, Operator's ear	Highest value will not exceed 70 dB (A)		
Noise Level uncertainty of measurement	0.2 dB (A)		
Noise Level at constant speed, Operator's ear	Highest value will not exceed 70 dB (A)		
Noise Level uncertainty of measurement	1.5 dB (A)		
Vibration Level on steering wheel, Operator on board	Highest value will not exceed 2.5 m/s <sup>2</sup>		
Vibration Level uncertainty of measurement	0.0 m/s <sup>2</sup>		
Vibration Level on floor board, Operator on board	Highest value will not exceed 0.5 m/s <sup>2</sup>		
Vibration Level uncertainty of measurement	0.0 m/s <sup>2</sup>		

## **SPECIFICATIONS**

Items	DR2 AC Li
Performance:	
Maximum speed	19.2 km/h (12.0 mph)
Maximum reverse speed	10.0 km/h (6.2 mph)
Turning radius	2.8 m (9.2 ft)
Seating capacity	Two occupants per seat
Hill climbing capacity	20°
Maximum cargo payload	98 kg (100 lb)

#### **TRANSMISSION**

Items	DR2 AC Li	
Differential/reduction gear	Secondary reduction system helical gear	
	Secondary reduction ratio:	
	Forward 12.44:1; Reverse 12.44:1	
	Differential type bevel gear	
	Lubricant/capacity SAE 80W-90 or SAE 90	
	gear oil/355 cc (355 mL, 0.38 US qt)	

#### **BATTERY**

Items	DR2 AC Li
Lithium-ion battery:	Yamaha Lithium-ion battery manufuctured by Roypow 51-volt 5.3 kwh
Battery category: EU Battery Regulation (EU) 2023/1542	Industrial battery

#### **BATTERY AMBIENT TEMPERATURES**

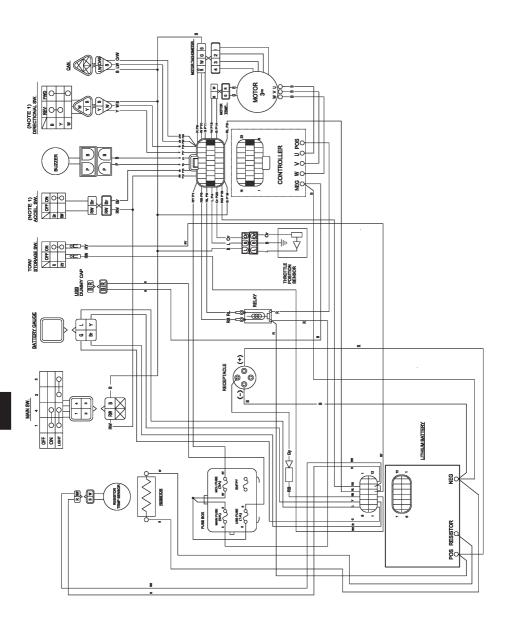
Lithium Battery Condition		Temperature	
Operation		-20 – 55 °C (-4 – 131 °F)	
Charging		5 – 49 °C (42 – 121 °F)	
Storage 1 month or less		-20 – 45 °C (-4 – 113 °F)	
	More than 1 month	0 – 35 °C (32 – 95 °F)	

## **SPECIFICATIONS**

## **CHASSIS**

Items	DR2 AC Li
Suspension:	
Front	Independent (Coil-over strut type)
Rear	Swing arm (mono-link)
Steering system:	
Туре	Rack and Pinion
Steering angle (L.H.)	1.85 turn
Steering angle (R.H.)	1.85 turn
Brakes:	
Brake system	Mechanical drum brake on each rear wheel with self-adjusters
Type of brake	Dual internal expanding shoe Leading/trailing shoes (self-adjusting)
Brake pedal freeplay linkage adjustment	50-55 mm (1.97-2.17 in.)
Parking brake:	
Туре	Foot type; rear wheel parking brake with automatic release.
Wheel:	
Tire size: (Dia. [in] × Width [in] - Rim size [in] / Ply rating)	
Front	18 × 8.50–8 / 4 PR
Rear	18 × 8.50–8 / 4 PR
Rim size: (Dia. [in]) × (Width [in]) (Offset [mm])	8 × 7.0 ±0
Tire pressure:	137 kPa (1.40 kgf/cm², 20 psi)

#### **DR2 AC LI WIRING DIAGRAM**



#### CONTENTS

- 1 IMPORTANT LABELS
- 2 **A SAFETY INFORMATION**
- 3 CONTROLS
- 4 PRE-OPERATION CHECKS
- 5 OPERATION
- 6 MAINTENANCE AND ADJUSTMENT
- 7 STORAGE
- 8 SPECIFICATIONS
- 9 WIRING

