

YAMAHA

GOLF CAR

**OWNER'S/
OPERATORS
MANUAL**

**G16A
G16E**

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.

**TECHNICAL SERVICE DEPT
GOLF CAR SALES GROUP
YAMAHA MOTOR
MANUFACTURING CORP OF
AMERICA**

**G16A, G16E
OWNER'S/OPERATOR'S
MANUAL**

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Manufacturing Corporation
of America
1st edition**

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P/N LIT-19626-16-97**

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!**

⚠ 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:

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.

⚠ WARNING

Read and understand this manual completely before operating your golf car.

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WARRANTY

1

YAMAHA MOTOR MANUFACTURING CORPORATION OF AMERICA G16A, G16E LIMITED WARRANTY

Yamaha Motor Manufacturing Corporation of America hereby warrants that any new G16 (gas and electric models) Yamaha Golf Car purchased from an authorized Yamaha dealer in the United States will be free from defects in material and workmanship for the period of time stated herein, subject to the stated limitations.

THE PERIOD OF WARRANTY for any G16 (gas and electric models) will be three years from date of purchase.

The first year of warranty shall cover the entire car except for batteries, battery chargers, tires and rims, which are warranted by their respective manufacturers.

The second year of warranty shall cover the engine assembly, clutch, transmission, axles, electrical system, frame, suspension components, electric motor, control cables, and steering gear.

Parts excluded from the second year of warranty include the body parts, seats, mats, bumper assembly, bag carrier, scorecard holder, and the trim.

The third year of warranty shall cover the engine assembly, clutch, transmission, axles, frame, suspension components, steering gear, and (on the G16E) electronic speed controller.

Parts excluded from the third year of warranty include the second year exclusions and the electrical system (except electronic speed controller), electric motor, and control cables.

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 machine's warranty period. All parts replaced under warranty become property of Yamaha Motor Manufacturing Corporation of America.

GENERAL EXCLUSIONS from this warranty shall include any failures caused by:

- Abnormal strain, neglect, or abuse, including lack of proper maintenance, and use contrary to the Owner's/Operator's Manual instructions.
- Accident or collision damage.
- Installation of parts or accessories that are not original equipment.
- Fading, rust, or deterioration due to exposure or ordinary wear and tear.
- Modification or alteration that affects 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.
- Damage due to improper transportation.

SPECIFIC EXCLUSIONS from this warranty shall include any parts replaced due to normal wear or routine maintenance; including oil, air filter elements, brake shoes, spark plugs, starter and clutch drive belts. Any charges incurred in transporting a golf car 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 as specified in the appropriate Owner's/Operator's Manual;
- Give notice to an authorized Yamaha dealer of any and all apparent defects within ten (10) days after discovery, and make the machine available at that time for inspection and repairs by the dealer's authorized representative.

WARRANTY TRANSFER: To transfer any remaining warranty from the original purchaser to any subsequent purchaser, it is imperative that the machine be inspected and registered for warranty by an authorized Yamaha Golf Car Dealer. In order for this warranty to remain in effect, this inspection and registration must take place within ten (10) days after transfer. An inspection and registration fee may be charged for this service.

YAMAHA MOTOR MANUFACTURING CORPORATION OF AMERICA 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 MOTOR MANUFACTURING CORPORATION OF AMERICA AND EXCLUDED FROM THIS WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN 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 MOTOR MANUFACTURING
CORPORATION OF AMERICA
Newnan, Georgia 30265-1320

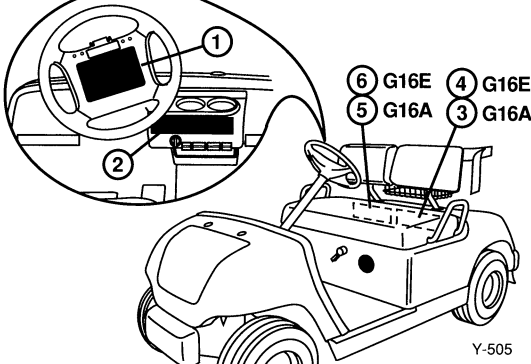
Effective Date: 2/1/96
LIT-13710-00-96

IMPORTANT LABELS

SAFETY AND INSTRUCTION LABELS

WARNING

Please read the following labels carefully before operating your golf car, and promptly replace any labels which become damaged or removed.



Y-505

OPERATING INSTRUCTIONS

- Read the warning label on the beverage holder panel before operating.
- Be sure occupants are seated.
- Select "FORWARD" or "REVERSE" then turn main switch to "ON".
- Press the accelerator pedal to start moving. The motor will start and the parking brake will release automatically.
- To stop, release the accelerator pedal and press the brake pedal.
- 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.
- 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.

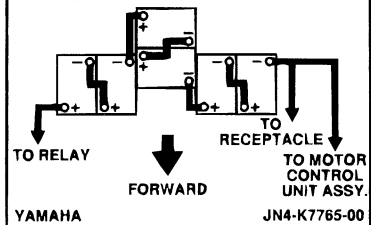
ATTENTION

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

YAMAHA

JN3-K7762-01

BATTERY INSTALLATION AND WIRE LEAD CONNECTION



YAMAHA

JN4-K7765-00

WARNING/AVERTISSEMENT

EXPLOSIVE GASES are released when batteries are charged or discharged. Keep well ventilated. Keep sparks, flames and cigarettes away. Shield eyes when working near batteries.	LES GAZ EXPLOSIFS se dégagent lors de la charge ou décharge des batteries. Garder bien ventilé. Garder allumettes, flammes et cigarettes à l'écart des batteries. Se protéger les yeux lorsque l'on travaille près des batteries.	SULFURIC ACID in batteries will burn skin, eyes, and clothing. Do not touch batteries. Keep vent caps tight and level. In event of injury, flush with water and call physician immediately.	L'ACIDE SULFURIQUE dans les batteries brûle la peau, les yeux et les vêtements. Ne pas toucher les batteries. Garder les bouchons serrés et horizontaux. En cas de contact avec l'acide, nettoyer à grande eau, et appeler le médecin immédiatement.	ELECTRICAL SHORTS can result in burns. Do not make connection between positive and negative battery terminals.	LES COURTS-CIRCUITS ELECTRIQUES peuvent causer des brûlures. Ne pas relier la borne positive et la borne négative d'une même batterie.
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YAMAHA

JN4-K7762-12

WARNING

- DEATH OR SEVERE PERSONAL INJURY CAN RESULT FROM FAILURE TO FOLLOW THESE INSTRUCTIONS.
- Read Operating Instructions on steering wheel before operation.
- Operate only when authorized and only in designated areas.
- Operate from driver's side only.
- Do not allow more than two occupants in vehicle.
- Do not start vehicle until all occupants are seated.
- Remain seated and hold on when in motion.
- Keep entire body inside vehicle.
- Drive slowly in turns.
- Drive slowly straight up and down slopes.
- Set parking brake before leaving vehicle.
- Turn main switch to OFF and remove key when not in use.
- Do not operate while under the influence of alcohol or drugs.

OFF

ON

Y-770

WARNING/AVERTISSEMENT

- Gasoline is extremely flammable.
- Keep heat, sparks and open flame away from fuel tank and fuel lines.
- Do not add fuel while engine is running or hot.
- Do not modify fuel system. Service should be performed by dealer or qualified personnel.
- L'essence est extrêmement inflammable.
- Garder allumettes, flammes et chaleur loin du réservoir à essence et des tuyaux à carburant.
- Ne pas ajouter d'essence pendant que le moteur est en marche ou quand le moteur est chaud.
- Ne pas modifier le système d'alimentation. Toute révision doit être faite chez le fournisseur ou par du personnel qualifié.

USE REGULAR UNLEADED GASOLINE ONLY

Motor Oil Requirements:

- Use only SAE 10W-30, API service SE or SF.
- Maintain oil level between dipstick "MIN" and "MAX" marks.

YAMAHA

UTILISER UNIQUEMENT DE L'ESSENCE SANS PLOMB

Pour l'huile du moteur, il faut:

- Utiliser uniquement SAE 10W-30, API service SE ou SF.
- Garder le niveau d'huile entre les marques "MIN" et "MAX" indiquées sur la jauge de niveau d'huile.

JN3-K6287-10

WARNING/AVERTISSEMENT

- Do not tamper with governor to increase speed. Operation at higher speeds can cause loss of control that can result in severe injury or death.
- Ne pas toucher au régulateur afin d'augmenter la vitesse. Un fonctionnement à des vitesses supérieures au réglage initial peut causer une perte de contrôle qui peut mener à une blessure grave, voire fatale.

YAMAHA

JN3-K6287-10

G16A/E

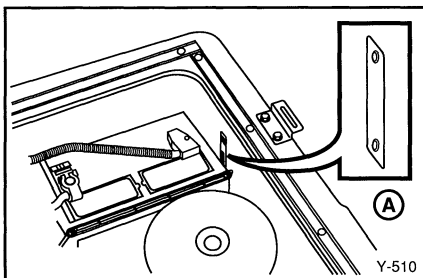
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IMPORTANT LABELS

2

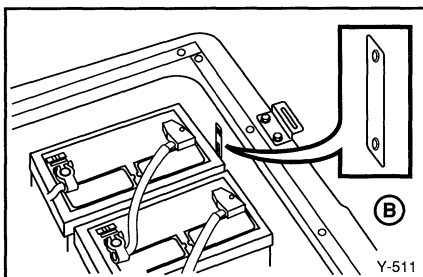


GOLF CAR SERIAL NUMBER

The golf car serial number is stamped in the location shown.

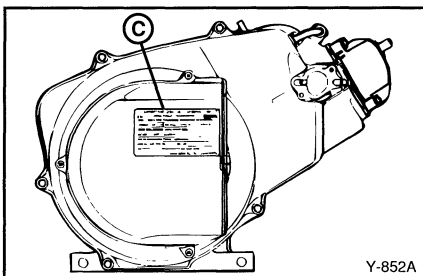
Ⓐ G16A

Ⓑ G16E



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 dealer.



© Engine Information

IMPORTANT ENGINE INFORMATION				YAMAHA	
ENGINE FAMILY : *****					
REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.					
DISPLACEMENT:	*** cm ³	VALVE LASH(in)	IN: **..**	EX: **..**	
IGNITION TIMING & IDLE MIXTURE: NO OTHER ADJUSTMENTS NEEDED.					
IDLE SPEED:	****	rpm	AT NO LOAD		
FUEL: THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE.					
ENGINE OIL:	SAE 10W-30		TYPE	SD	
THIS ENGINE CONFORMS TO **** U.S. EPA REGULATIONS FOR SMALL HONORROAD ENGINES.					
YAMAHA MOTOR CO.,LTD. JN6-2179V-00					

Y-843

U.S. (Except California)

IMPORTANT ENGINE INFORMATION				YAMAHA	
ENGINE FAMILY : *****					
REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.					
DISPLACEMENT:	*** cm ³	VALVE LASH(in)	IN: **..**	EX: **..**	
IGNITION TIMING & IDLE MIXTURE: NO OTHER ADJUSTMENTS NEEDED.					
IDLE SPEED:	****	rpm	AT NO LOAD		
FUEL: THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE.					
ENGINE OIL:	SAE 10W-30		TYPE	SD	
THIS ENGINE MEETS 1995-1996 CALIFORNIA EMISSION REGULATIONS FOR SPECIALTY VEHICLES BELOW 25HP. THIS ENGINE CONFORMS TO **** U.S. EPA REGULATIONS FOR SMALL HONORROAD ENGINES.					
YAMAHA MOTOR CO.,LTD. JR3-2179R-00					

Y-851

California Only



OPERATOR SAFETY

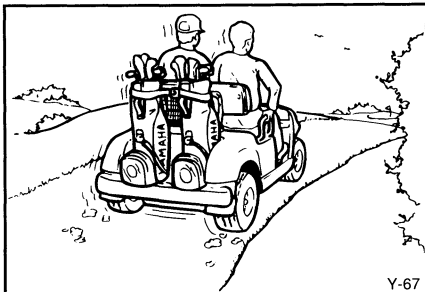
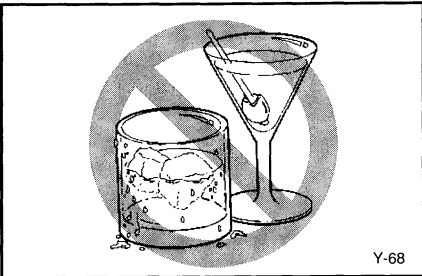
Yamaha golf cars are designed to be simple to operate. However, be sure to observe the following:

BEFORE OPERATING THE GOLF CAR

3



- 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 people to ride in the golf car. This golf car is restricted to two occupants.
- 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. Such use is prohibited by law, and dangerous. Operation on public roads can result in collision with other vehicles.



WHILE OPERATING THE GOLF CAR

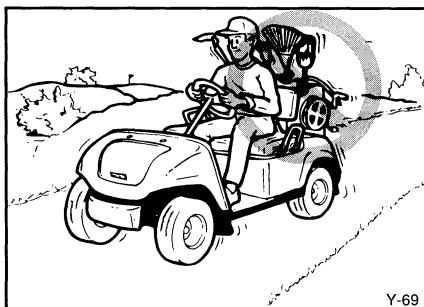
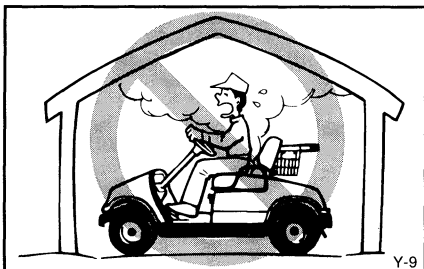
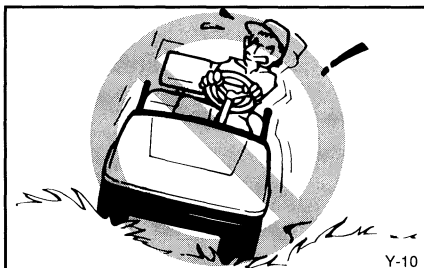
- Keep your entire body inside the golf car, remain seated, and hold on when the car is in motion.
- Do not start the golf car until all occupants are seated.



OPERATOR SAFETY

3

- 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.
- 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 (G16A). 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.



MAINTENANCE SAFETY PROGRAM

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:

Do Not Operate Golf Cars When Under The Influence Of Alcohol Or Drugs

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: Steep Grade, Descend Slowly With Foot On Brake

- **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. Chain or rope off wet areas or identify wet areas with a suitable warning.



MAINTENANCE SAFETY PROGRAM

4

- **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 electric powered car storage areas during the 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.



MAINTENANCE SAFETY PROGRAM

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.
- Before disconnecting any part of the fuel system, drain the applicable part of the system to prevent fuel leaks.
- 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 dealer.

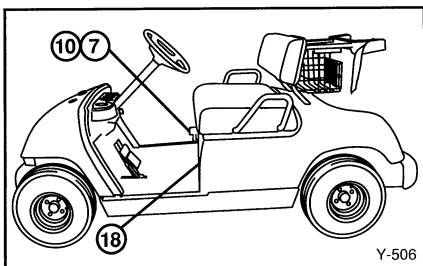
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FUEL HANDLING/ STORAGE AND BATTERY CHARGING

Take the following precautions to ensure maintenance worker safety:

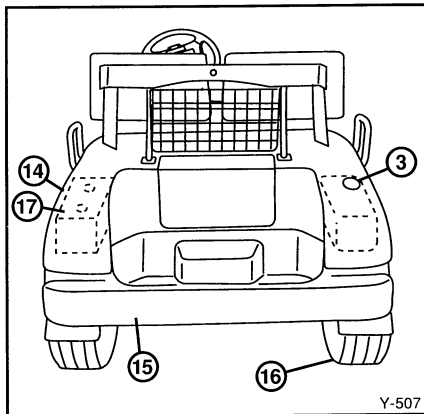
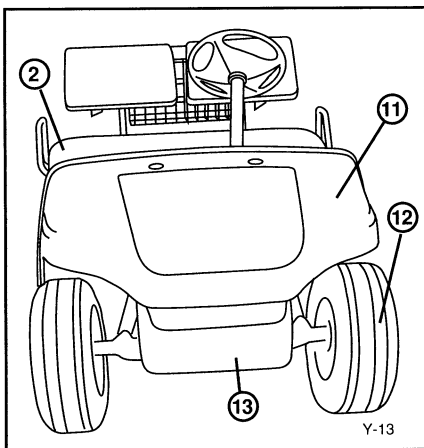
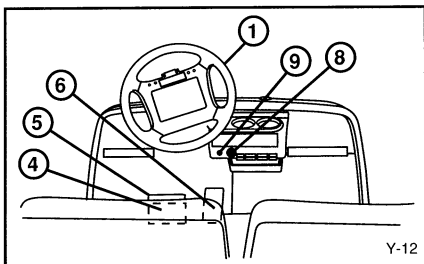
- Supervise the storage and handling of liquid fuels in accordance with applicable fire and safety requirements.
- Only use battery changing and charging facilities and procedures that are in accordance with applicable ordinances and regulations.
- Periodically inspect fueling and charging facilities and procedures to be certain that applicable safety codes, regulations, and procedures are being followed.

CONTROLS



FEATURES

- ① Steering wheel
- ② Seat
- ③ Fuel cap (for G16A)
- ④ Brake pedal
- ⑤ Parking brake pedal
- ⑥ Accelerator pedal
- ⑦ Drive selector lever
- ⑧ Main switch
- ⑨ Oil warning light (for G16A)
- ⑩ Choke knob (for G16A)
- ⑪ Front cowl
- ⑫ Front tire
- ⑬ Front bumper
- ⑭ Rear cowl
- ⑮ Rear bumper
- ⑯ Rear tire
- ⑰ Battery (for G16A)
- ⑱ Receptacle (for G16E)

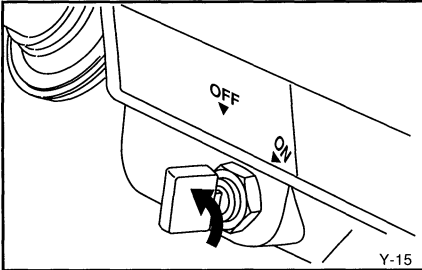


MAIN SWITCH

The main switch controls the following items:

OFF

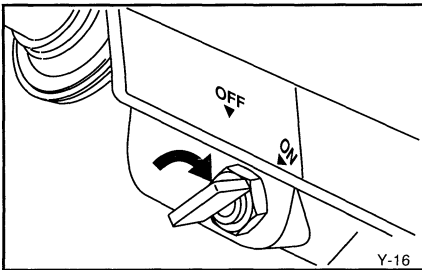
Ignition circuit is switched off.
The key can be removed only in this position.



ON

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

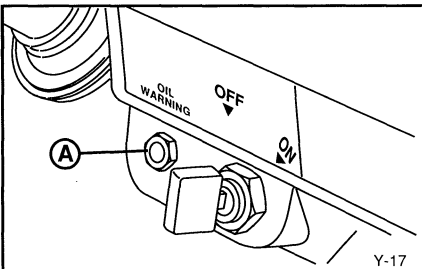
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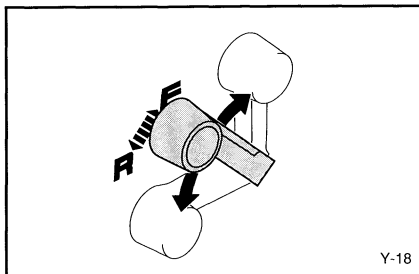
OIL WARNING LIGHT (G16A)

When the engine oil level falls below an acceptable level, this light comes on. **If the light comes on, stop the engine, check the engine oil level, and add oil as necessary. (See page 6-3).**

Ⓐ Oil warning light



CONTROLS

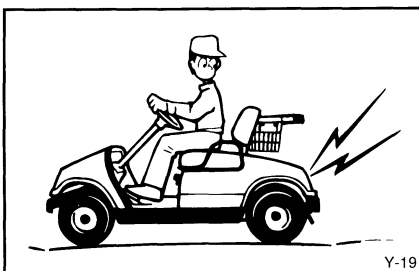


DRIVE SELECT LEVER

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

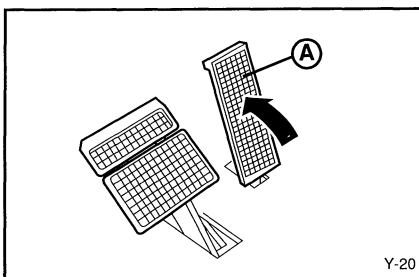
Lever Position	Car Movement
F	FORWARD
R	REVERSE

5



NOTE:

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

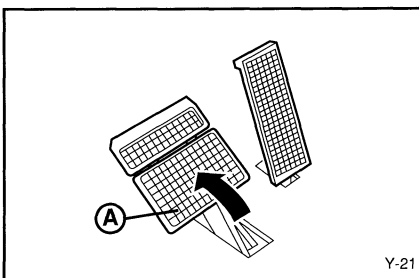


ACCELERATOR PEDAL

The accelerator pedal controls the golf car's speed.

Action	Car Speed
Depress pedal	Increase
Release pedal	Decrease

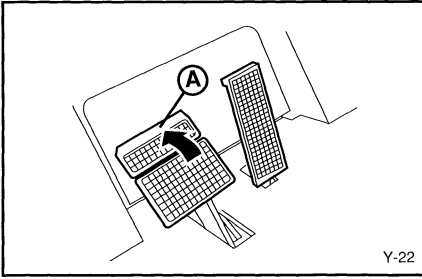
Ⓐ Accelerator pedal



BRAKE PEDAL

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

Ⓐ Brake pedal



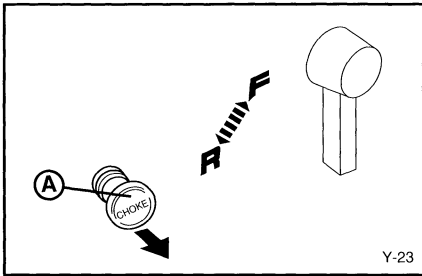
PARKING BRAKE PEDAL

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.



CHOKE KNOB (G16A)

Pull and hold out choke knob when starting a cold engine. Release the knob after the engine starts.

- Ⓐ Choke knob

PRE-OPERATION CHECKS

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

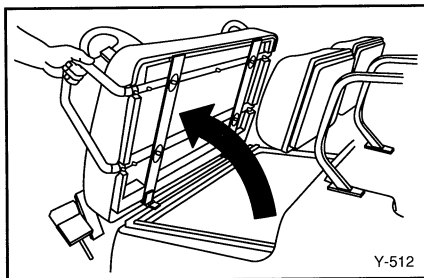
- Be sure the main switch key is removed before performing the pre-operation checks to prevent accidental starting, and apply the parking brake to keep the car from moving.
- For the G16A: During the pre-operation checks, avoid touching engine parts or the muffler while they are still hot.

6

PRE-OPERATION CHECKLIST

Before each use check the following:

- ✓ Fuel system (G16A)
- ✓ Engine oil level (G16A)
- ✓ Battery
- ✓ Tire condition
- ✓ Steering system
- ✓ Back-up buzzer
- ✓ Pedal operation
- ✓ Body and chassis

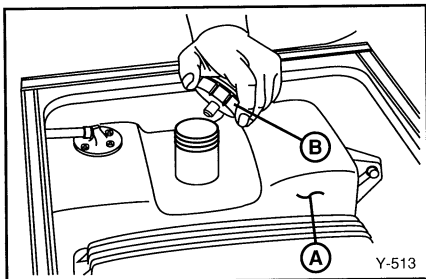


Y-512

SEAT

Open the seat for checking and servicing.

PRE-OPERATION CHECKS



FUEL SYSTEM (G16A)

Make sure there is sufficient fuel in the tank, and check fuel line and connections for leakage.

- (A) Fuel tank
- (B) Fuel cap

⚠ WARNING

Gasoline and its vapors are highly flammable and explosive.

- Do not smoke when refueling and keep away from sparks, flames, or other sources of ignition.
- Stop engine and allow it to cool for several minutes before refueling.
- Refuel in a well-ventilated area.
- Take care not to spill gasoline. If gasoline spills, wipe it up immediately with dry rags. Always dispose of gasoline-soaked rags properly.
- Tighten the filler cap securely after refueling.
- If you swallow gasoline, inhale a lot of gasoline vapor, or get gasoline in your eyes, get immediate medical attention.
- If any gasoline gets on your skin, immediately wash with soap and water. Change clothing if gasoline spills on it.

6

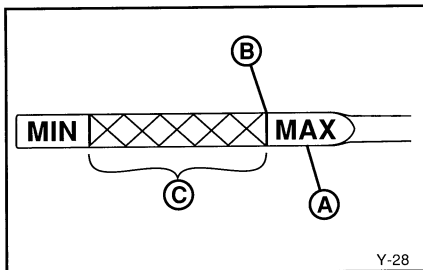
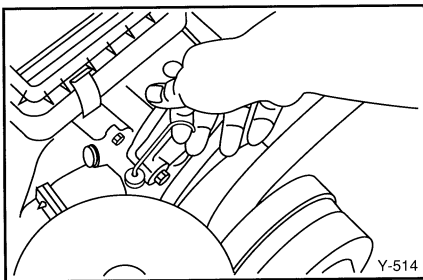
Recommended fuel:
Unleaded gasoline

Fuel tank capacity:
6.3 US gal
(24.0 L, 5.3 Imp gal)

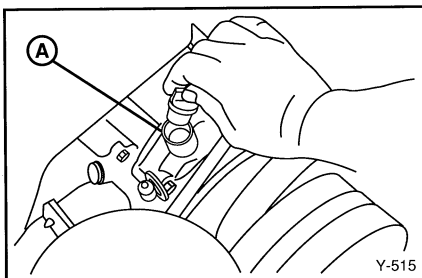
CAUTION

Avoid using gasoline blended with methyl alcohol which can damage fuel system parts.

PRE-OPERATION CHECKS



6



Recommended oil:
YAMALUBE 4-cycle oil or
SAE 10W-30

Engine oil capacity:
1.16 US qt
(1.0 L, 0.24 Imp gal)

Oil change quantity:
1.0 US qt
(0.9 L, 0.19 Imp gal)

ENGINE OIL (G16A)

With the golf car parked on level ground, remove the dipstick and make sure the engine oil is between the MIN and MAX marks (the cross-hatched area on the end of the dipstick).

- (A) Oil level dipstick
- (B) Maximum oil level
- (C) Safe operating range

If the oil level is **below** the MIN mark on the dipstick, add oil through the oil filler hole until the oil level is between the MIN and MAX marks.

- (A) Oil filler hole

CAUTION

- Use care not to fill past the MAX dipstick mark, and be sure no foreign material enters the crankcase.
- Use care not to get oil on the starter belt.

NOTE:

The distance between the dipstick marks represents approx. 1/2 US qt (1/2 L) of oil.

NOTE:

Recommended engine oil classification: API Service SE, SF, or SG. Engine oils labeled "Energy Conserving II" are recommended.

PRE-OPERATION CHECKS

BATTERY

Charge G16E batteries before each use. See charging steps in chapter 8, *Maintenance*.

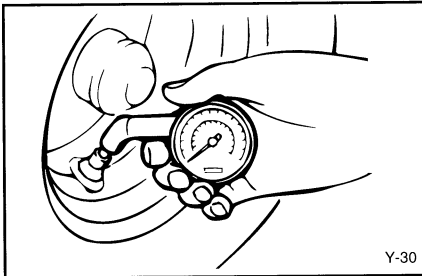
Check that the battery (G16A) or batteries (G16E) are held securely in place to prevent the batteries from being damaged from vibration or jarring. Also check that no battery caps are missing to prevent battery acid from spilling from the battery. Check the battery terminals for corrosion.

TIRE CONDITION

Tire Air Pressure

6

Check the tire air pressure before operating the golf car.



Tire pressure:

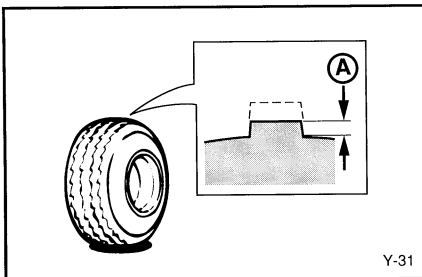
For G16A:
16 psi
(108 kPa, 1.1 kgf/cm²)

For G16E:
20 psi
(137 kPa, 1.4 kgf/cm²)

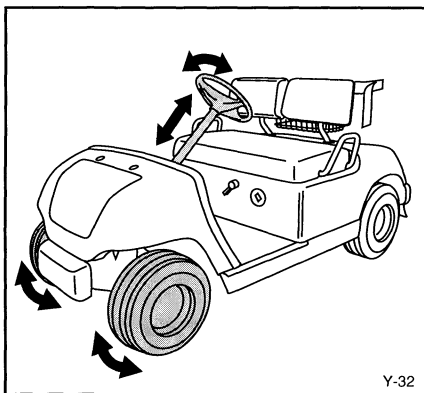
Tire Wear Limit

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

Ⓐ Wear limit



PRE-OPERATION CHECKS



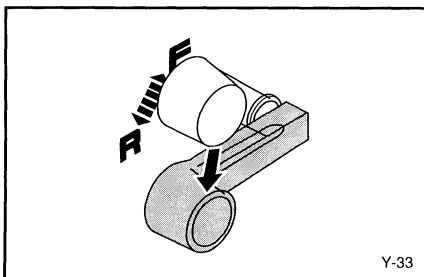
STEERING SYSTEM

Check the steering system for excessive freeplay by:

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

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

6

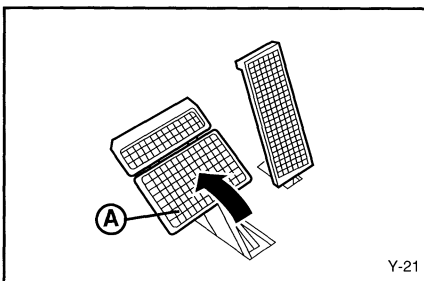


BACK-UP BUZZER

Check the back up buzzer by moving the drive select lever to "R" 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.

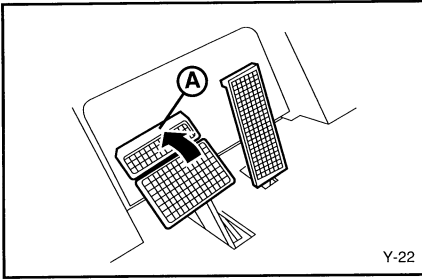


Brake Pedal

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

- Ⓐ Brake pedal

PRE-OPERATION CHECKS



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:

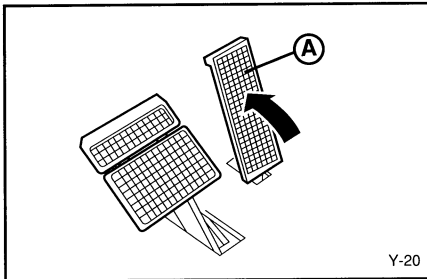
Release the parking brake by depressing the accelerator pedal.

Accelerator Pedal

⚠ WARNING

Before checking operation of the accelerator pedal, be sure the main switch is in the "OFF" position.

6



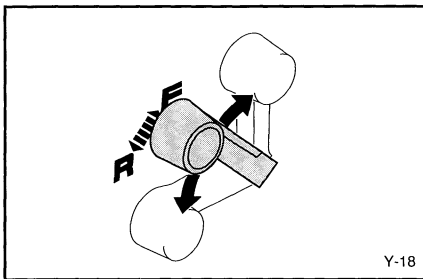
Make sure the accelerator pedal operates smoothly.

Ⓐ Accelerator pedal

BODY AND CHASSIS

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

OPERATION

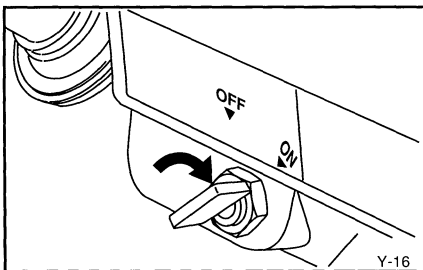


STARTING

1. With the parking brake applied, turn the drive select lever to "F" for forward, or "R" for reverse.

CAUTION

Do not shift from "F" forward to "R" reverse while the golf car is moving.



2. Turn the main switch to "ON."

WARNING

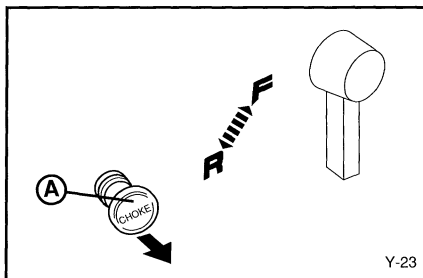
Do not depress the accelerator pedal when turning on the main switch or the golf car may suddenly start moving.

3. Pull the choke knob out and hold it while starting (G16A). Release the choke knob after the engine starts.

Ⓐ Choke knob

NOTE:

The choke is not required when the engine is warm.

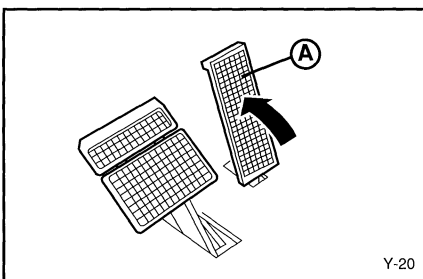


4. Check that your path is clear in the direction you plan to go, and slowly depress the accelerator pedal. The golf car will start to move.

Ⓐ Accelerator pedal

NOTE:

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



STOPPING

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

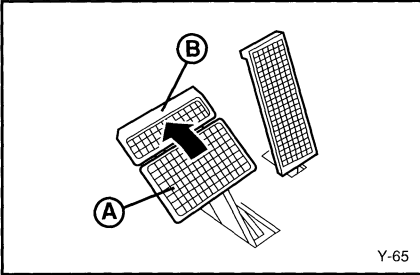
- Ⓐ Brake pedal

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

- Ⓑ Parking brake pedal

CAUTION

Do not hold the golf car on an incline with the accelerator – use the brake.



TROUBLESHOOTING G16A

If G16A's gas engine won't start, use the following chart:

Cause	Remedy
Fuel System	
No fuel in tank	Fill fuel tank
Clogged fuel line	Clean fuel line – Consult Yamaha dealer
Foreign matter in fuel filter	Clean fuel filter – Consult Yamaha dealer
Clogged carburetor	Clean carburetor – Consult Yamaha dealer
Electrical System	
Spark plug dirty with carbon, or wet	Clean carbon or wipe spark plug dry
Faulty ignition system	Consult Yamaha dealer

MAINTENANCE

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 machine servicing, this work should be done by a Yamaha dealer or other qualified mechanic.

FOR G16A



Check or Adjust



Lubricate

R Replace

Item	Remarks	Pre-Operation	Every						Page
			20 Rounds 20 hours 100 miles 160 kms (1 month)	125 rds 125 hrs 600 mls 1000 kms (6 months)	250 rds 250 hrs 1200 mls 2000 kms (1 year)	500 rds 500 hrs 2500 mls 4000 kms (2 yrs)	1000 rds 1000 hrs 5000mls 8000 kms (4 yrs)		
Engine	Adjust valve clearance (cold)**								*
	Check tightness of cylinder head								*
	Check condition of air cleaner pre-filter**								8-8
	Wash the pre-filter with soap and water and allow it to dry**								8-8
	Check condition of air filter element**				<i>R</i>				8-8
	Check spark plug for condition of electrode**				<i>R</i>				8-5
	Check engine oil								6-3
	Replace engine oil				<i>R</i>				8-6
	Check compression pressure								*
Fuel system	Adjust throttle cable								*
	Adjust choke cable**								*
	Check carburetor for dirt or wear**								*
	Check fuel lines for leakage								6-2
	Replace fuel hoses							<i>R</i>	*
	Check fuel filter for clogging								*
	Replace fuel filter							<i>R</i>	*
	Check fuel level								6-2
Starter	Check starter V-belt for damage and tension								*
	Check brushes for wear								*
	Check commutator for dirt								*

* 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.

** Related to emission control system.

MAINTENANCE

FOR G16A

Item	Remarks	Every						Page
		Pre-Operation	20 Rounds 20 hours 100 miles 160 kms (1 month)	125 rds 125 hrs 600 mls 1000 kms (6 months)	250 rds 250 hrs 1200 mls 2000 kms (1 year)	500 rds 500 hrs 2500 mls 4000 kms (2 yrs)	1000 rds 1000 hrs 5000mls 8000 kms (4 yrs)	
Primary and secondary sheaves	Check drive belt for slippage, wear, or scratches							8-9
	Grease secondary sheave bearing							*
	Check for operation and wear of sliding sheave							*
	Check for wear of ramp shoes on secondary spring seat							*
	Grease primary sheave							*
Gear box	Check operation of speed limiter							*
	Check operation of forward-reverse shifting							6-5
	Check for damage to shifting cable						<i>R</i>	*
	Check gear box oil level and leakage							8-16
	Replace gear box oil						<i>R</i>	*
Battery	Check for looseness of battery terminals and hold downs							6-4

FOR G16E

Batteries	Charge							8-11
	Check electrolyte level							8-11
	Clean tops and terminals, check for corrosion							8-11
	Check for looseness of battery terminals and hold downs							6-4
	Check the specific gravity of electrolyte							8-12
Traction motor	Check for loose or broken connections							*
	Check brush and commutator							*
Wiring	Check all wire insulation for cracks and/or worn spots							*
Gear box	Check gear box oil level and leakage							8-16
	Replace gear box oil						<i>R</i>	*

MAINTENANCE

FOR G16A AND G16E

Item	Remarks	Pre-Operation	Every					Page
			20 Rounds 20 hours 100 miles 160 kms (1 month)	125 rds 125 hrs 600 mls 1000 kms (6 months)	250 rds 250 hrs 1200 mls 2000 kms (1 year)	500 rds 500 hrs 2500 mls 4000 kms (2 yrs)	1000 rds 1000 hrs 5000mls 8000 kms (4 yrs)	
Brakes	Check and adjust if necessary							6-5/ 8-18
	Check brake pedal free play							8-19
	Check shoe lining thickness							*
Steering	Check and adjust if necessary							6-5
	Check gearbox for leakage							*
	Adjust wheel alignment							*
	Check kingpin play, seal, and cap							*
	Lubricate kingpin							*
Wheel	Check tire pressure							6-4
	Check tire tread depth							6-4
	Check tire surface for damage							6-4
	Check wheel nut tightness							8-18
	Check front wheel bearing play							*
	Check rear axel bearing play							*
	Check rear axel for damage							*
Body and chassis	Check body and chassis for damage							6-6
	Check tightness of all bolts, nuts, and screws							*
	Check shock absorbers for oil leaks							*
	Check coil springs for cracks or damage							*
Accelerator stop switch	Check operation and adjust pedal stop if necessary							*
Back-up buzzer	Check operation							6-5



01/10/01
1PC - G16A/E O/M

LIT196261697



Yamaha Motor Corp., USA
Cypress, California

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