

YAMAHA

GOLF CAR

OWNER'S/
OPERATORS
MANUAL

G9A
G9E

INTRODUCTION

Congratulations on your purchase of your new Yamaha.

This manual will provide you with a good basic understanding of the operation, and maintenance of this machine. If you have any questions regarding the operation or maintenance of your machine, please consult a Yamaha dealer.

SERVICE DEPT
LEISURE VEHICLES & POWER
PRODUCTS OPERATIONS
YAMAHA MOTOR CO., LTD.

G9-A, G9-E

OWNER'S MANUAL

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Corporation, U.S.A.

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U.S.A. is expressly prohibited.

P/N LIT-19626-00-52



WARNING

PLEASE READ AND UNDERSTAND THIS MANUAL COMPLETELY BEFORE OPERATING THE MACHINE.

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 machine and this manual. If there is any question concerning this manual, please consult your Yamaha dealer.
 - This manual should be considered a permanent part of this machine and should remain with this machine when resold.
-

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



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

NOTE:

A NOTE provides key information to make procedures easier or clearer.

IMPORTANT:

A IMPORTANT indicates special precautions that must be taken to avoid damage to the machine.

WARNING

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

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YAMAHA MOTOR CORPORATION, U.S.A. GOLF CAR LIMITED WARRANTY

1

Yamaha Motor Corporation, U.S.A. hereby warrants that any new Golf car (gas and electric models) Yamaha Golf Car purchased from an authorized Yamaha dealer in the continental 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 Golf car (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 trim.

The third year of warranty shall cover the engine assembly, clutch, transmission, axles, frame, suspension components, and steering gear.

Parts excluded from the third year of warranty include the second year exclusions and the electrical system, electric motor, and control cables.

DURING THE PERIOD OF WARRANTY any authorized Yamaha Golf Car Dealer will, free of charge, repair or replace 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 Corporation, U.S.A.

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

- Abnormal strain, neglect, or abuse, including lack of proper maintenance, use contrary to the owners 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.

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 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.

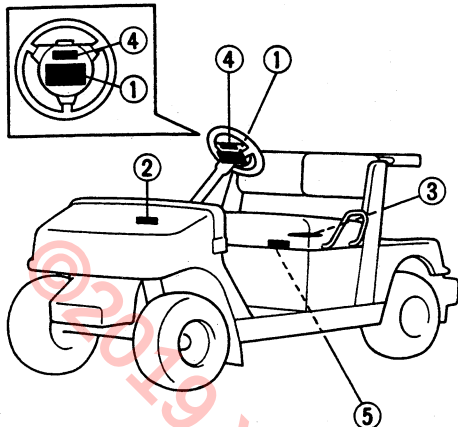
WARRANTY TRANSFER: To transfer the warranty from the original purchaser to any subsequent purchaser, it is imperative that the machine be inspected and registered for warranty by an authorized Yamaha Golf Car Dealer. In order for this warranty to remain in effect, this inspection and registration must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

YAMAHA MOTOR CORPORATION, U.S.A. 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 CORPORATION, U.S.A. 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 CORPORATION
Post Office Box 6555
Cypress, California 90630



LOCATION OF IMPORTANT LABELS

Please read the following labels carefully before operating this machine.

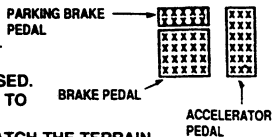
2

NOTE: _____
Maintain or replace safety and instruction labels, as necessary.

①

OPERATING INSTRUCTIONS

- READ WARNING LABEL ON THE INSTRUMENT PANEL BEFORE OPERATING.
- BE SURE OCCUPANTS ARE SEATED.
- SELECT FORWARD OR REVERSE BEFORE TURNING MAIN SWITCH TO "ON".
- THIS VEHICLE STARTS AUTOMATICALLY WHEN ACCELERATOR PEDAL IS DEPRESSED. RELEASE THE PEDAL AND APPLY BRAKE TO STOP
- VARY THE SPEED OF THE VEHICLE TO MATCH THE TERRAIN.
- BRING THE VEHICLE TO A COMPLETE STOP BEFORE REVERSING DIRECTION.
- DRIVE WITH EXTRA CARE IN CONGESTED AREAS AND WHEN OPERATING IN REVERSE.
- ALWAYS SET PARKING BRAKE SECURELY AND TURN MAIN SWITCH TO "OFF" BEFORE LEAVING THE VEHICLE.
- PARKING BRAKE WILL RELEASE WHEN ACCELERATOR PEDAL IS DEPRESSED.
- DO NOT EXCEED THE FACTORY SPEED SETTING OF 12 MPH UNDER ANY CIRCUMSTANCES.
- READ THE OWNER'S MANUAL FOR FURTHER INFORMATION.



ATTENTION

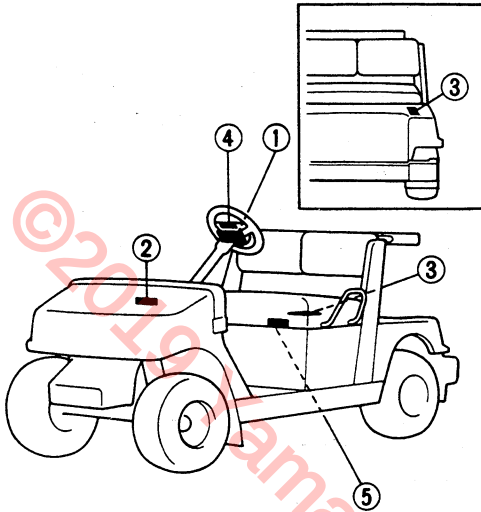
- THIS VEHICLE WAS NOT MANUFACTURED FOR USE ON PUBLIC STREETS AND DOES NOT COMPLY WITH FEDERAL MOTOR VEHICLE SAFETY STANDARDS APPLICABLE TO PASSENGER CARS.

②

⚠ WARNING

- FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SEVERE PERSONAL INJURY OR DEATH.
- OPERATION BY AUTHORIZED ADULTS ONLY AND ONLY IN DESIGNATED AREAS.
 - THIS VEHICLE IS RESTRICTED TO TWO OCCUPANTS.
 - DO NOT START THE 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.
 - READ OPERATING INSTRUCTIONS ON STEERING WHEEL BEFORE OPERATION.

2



For G9-E

⚠ WARNING

- BATTERY GASES ARE EXPLOSIVE.
 - KEEP SPARKS, FLAMES AND LIGHTED CIGARETTES AWAY FROM THE BATTERY
 - THE DANGER IS INCREASED WHILE CHARGING THE BATTERIES.
- WHEN THE BATTERIES ARE CHARGED IN THE VEHICLE, THE VEHICLE MUST BE IN A WELL VENTILATED AREA.

For G9-A

GASOLINE RECOMMENDATION
REGULAR UNLEADED ONLY

NOTICE

MOTOR OIL FOR ENGINE

- SHOULD BE 10W-30 API SERVICE SE OR SF.
- CHECK OIL LEVEL PERIODICALLY ACCORDING TO OWNER'S MANUAL.

For G9-A

**PUSH IN CHOKE KNOB
AFTER WARMING UP!**

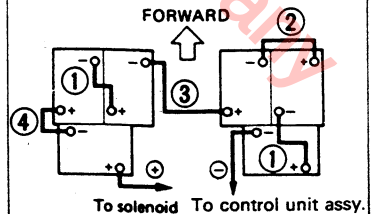
For G9-E

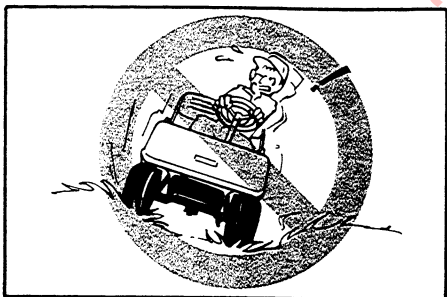
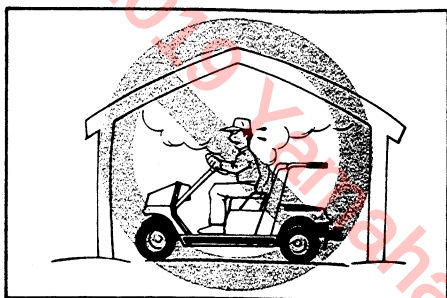
IMPORTANT

**DO NOT HOLD VEHICLE ON HILL/INCLINE
WITH ACCELERATOR. — THIS WILL
DAMAGE MOTOR — USE THE BRAKE.**

For G9-E

**BATTERY INSTALLATION AND WIRE
LEAD CONNECTION**





⚠ SAFETY INFORMATION

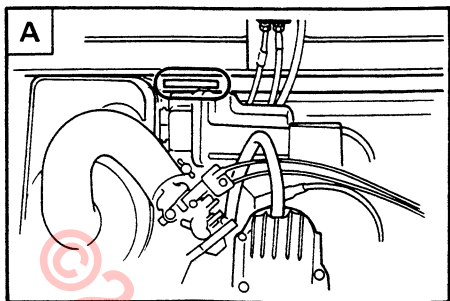
3

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

- Read all warning and instruction labels on the vehicle before operating.
- Bring the car to a complete stop before changing directions.
- Do not depress the accelerator pedal before turning on the main switch.
- Avoid starting or stopping abruptly; it's hard on the turf.
- Avoid turning the steering wheel too sharply at high speed, an accident may result.
- Keep your hands on the wheel and your eyes on the path ahead.
- Always drive straight up or straight down inclines; never at an angle.
- When backing up, do so slowly, and watch where you are going.
- Park the car on a level surface as much as possible.
- Do not leave car unattended unless the main switch is in the "OFF" position or key is removed, and the parking brake is on.

Accidental movement of the accelerator pedal may let the car coast down an incline.

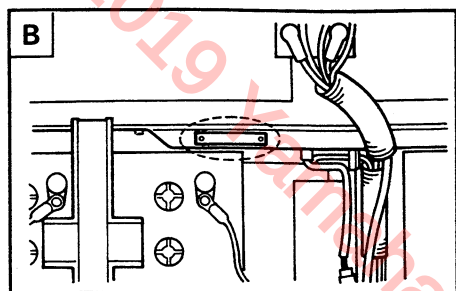
- Never allow more than two people to ride in the car.
- If the golf car is rented or loaned, be sure the operator understands the controls and has read the warning and instruction labels before operating.



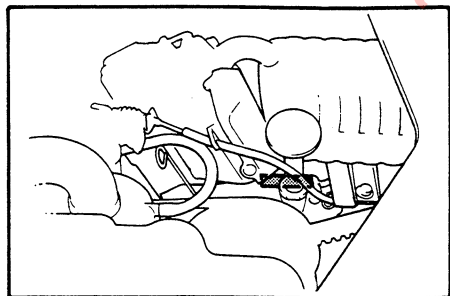
MACHINE IDENTIFICATION

The machine serial number is stamped in the location shown.

A G9-A



B G9-E



The engine model number is stamped in the location shown.

(For G9-A)

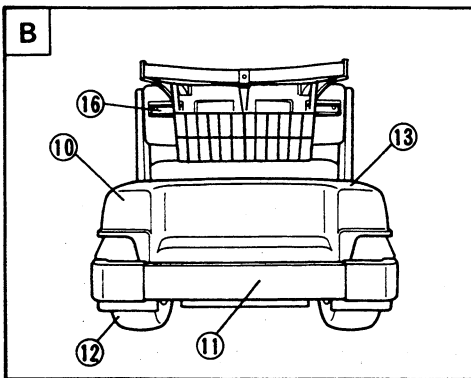
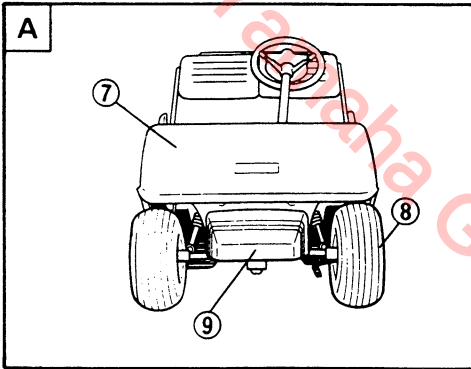
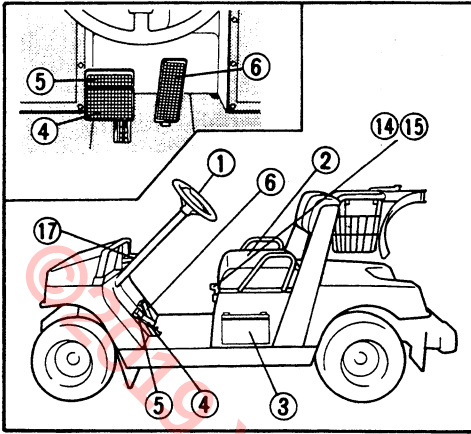
NOTE: _____

The first three digits of these numbers 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.

CONTROL FUNCTION

DESCRIPTION

- ① Steering wheel
 - ② Seat
 - ③ Battery
 - ④ Brake pedal
 - ⑤ Parking brake pedal
 - ⑥ Accelerator pedal
 - ⑦ Front cowl
 - ⑧ Front tire
 - ⑨ Front bumper
 - ⑩ Rear cowl
 - ⑪ Rear bumper
 - ⑫ Rear tire
 - ⑬ Lid
 - ⑭ Choke
 - ⑮ Drive select lever
 - ⑯ Ball holder
 - ⑰ Beverage holder
- A** Front view
B Rear view



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:

(G9-A)

Ignition circuit is switched on.

The engine can be started.

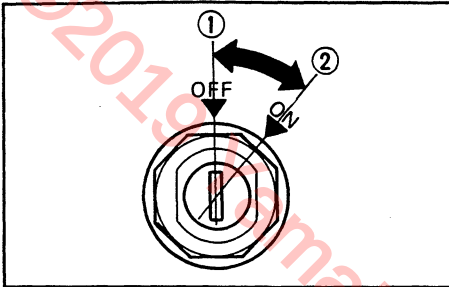
ON:

(G9-E)

Electrical circuits are switched on.

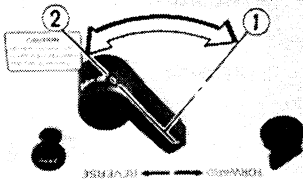
① "OFF"

② "ON"



DRIVE SELECT LEVER

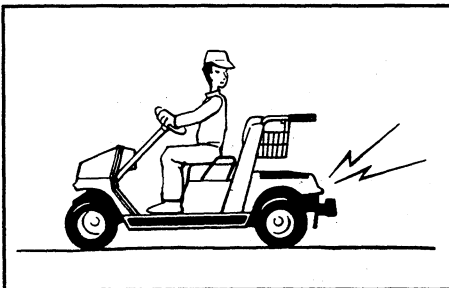
Use this lever to change the direction of machine.

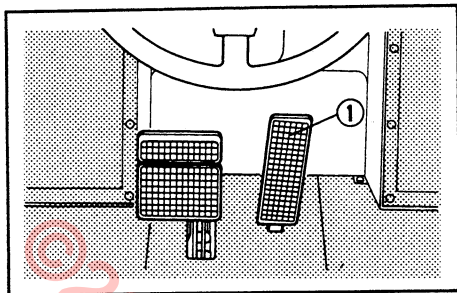


Lever position	Machine movement
① "F"	FORWARD
② "R"	REVERSE

NOTE:

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





ACCELERATOR PEDAL

The accelerator pedal controls the machine speed.

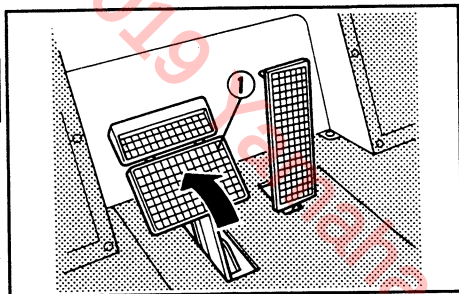
① Accelerator pedal

	Machine speed
Depress	Increase
Release	Decrease

BRAKE PEDAL

Press down on the brake pedal to stop the machine.

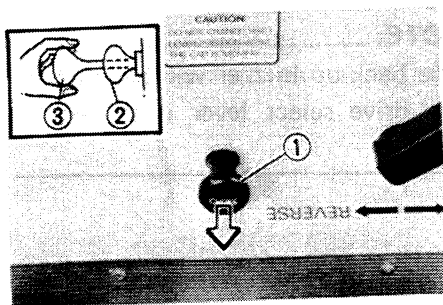
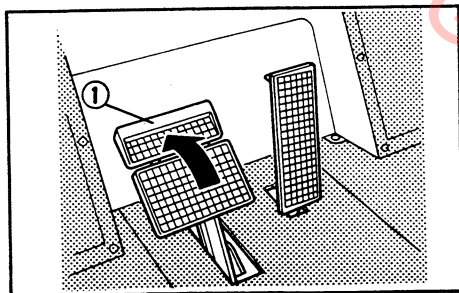
① Brake pedal



PARKING BRAKE PEDAL

Use the parking brake pedal when parking the machine.

① Parking brake pedal



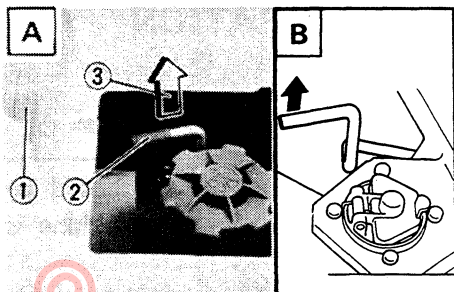
CHOKE KNOB (FOR G9-A)

Pull the choke knob when starting and warming up a cold engine.

- ① Choke knob
- ② Warm engine starting
- ③ Cold engine starting

IMPORTANT:

The choke knob should be returned to the original position after the engine warms up.



SEAT LEVER

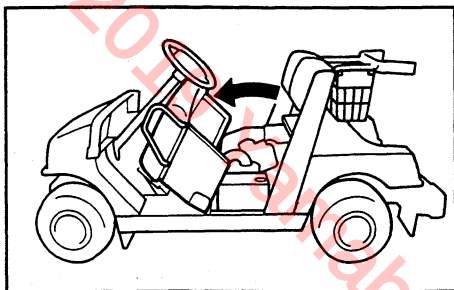
Use the seat lever to open the seat for servicing.

- ① Lid
- ② Seat lever
- ③ Pull up

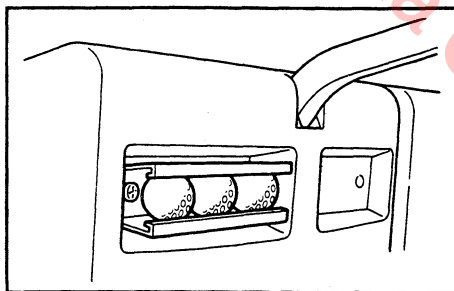
⚠ WARNING

Apply the parking brake before opening the seat. Otherwise the car could move unexpectedly.

5

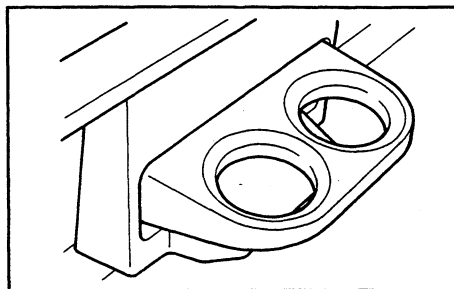


- A G9-A
- B G9-E



BALL HOLDER

Golf balls can be stored in this holder.



BEVERAGE HOLDER

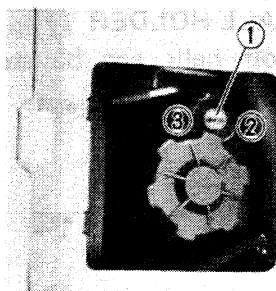
Beverages can be stored in this holder.

PRE-OPERATION CHECKS

⚠ WARNING

- Pre-operation checks should be made each time the machine is used.
- Be sure the main switch key is removed before checking, to prevent accidental starting.
- (FOR G9-A)

During inspection or repair, avoid touching the engine and muffler while they are still hot with any part of your body or clothing.



FUEL (FOR G9-A)

Make sure there is sufficient fuel in the tank.

Recommended fuel:

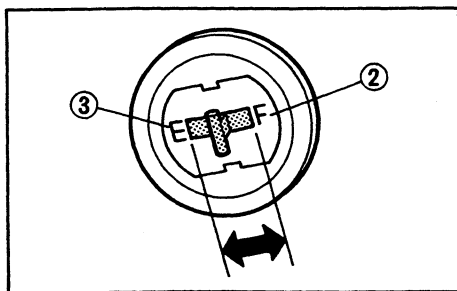
Unleaded gasoline

Fuel tank capacity:

Full:

24.0 L

(5.3 Imp gal, 6.3 US gal)

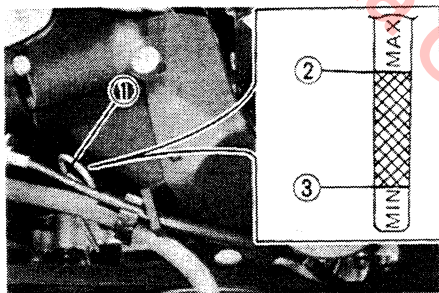


- ① Fuel level gauge
- ② "F" Full
- ③ "E" Empty

⚠ WARNING

- Handle fuel with care; it is highly flammable.
 - Never add fuel to a running engine, or to a hot engine until the engine has been allowed to cool for several minutes after running.
 - Use an approved fuel container.
 - Fill fuel tank outdoors with extreme care.
- Never remove the fuel cap indoors. Never fill the fuel tank indoors.
- Retighten gasoline cap securely and wipe up spilled fuel.

6



ENGINE OIL

(FOR G9-A)

(See page 8-6 ~ 8-8 for more details)

Make sure the engine oil is between upper and lower levels. Add oil as necessary.

- ① Oil level gauge
- ② Upper level
- ③ Lower level

Recommended oil:

YAMALUBE 4-cycle oil or
10W-30

Engine oil quantity:

Total:

1.1 L

(0.97 Imp qt, 1.16 US qt)

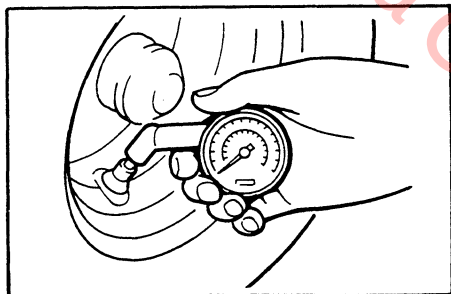
NOTE: _____

Recommended engine oil classification:

API Service "SE" or "SF".

IMPORTANT: _____

- Be sure to avoid getting oil on the starter belt.
- Be sure no foreign material enters the crankcase.
- Do not overfill the engine oil.



WHEEL AND TIRE

Tire Air Pressure

Always check and adjust the tire pressure before operating the machine.

Tire pressure:

For G9-A:

88 ~ 108 kPa

(0.9 ~ 1.1 kgf/cm²,

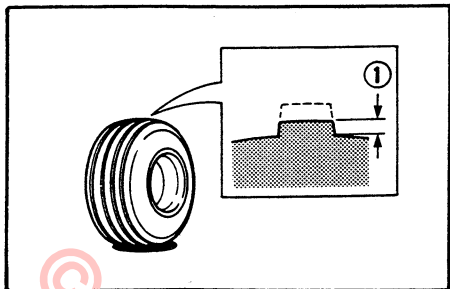
13 ~ 16 psi)

For G9-E:

108 ~ 127 kPa

(1.1 ~ 1.3 kgf/cm²

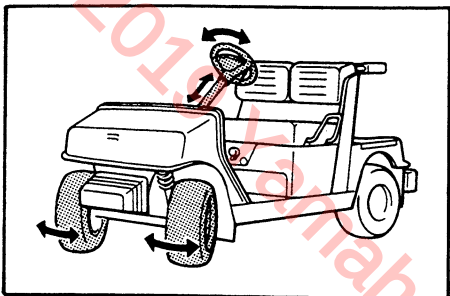
16 ~ 18 psi)



Tire Wear Limit

When tire groove wears down to 1 mm (0.04 in), replace the tire.

① Wear limit



STEERING SYSTEM

1. Check the following for free play:

- Move the steering wheel up and down, and back and forth.
- Turn the steering wheel slightly to the right and left.

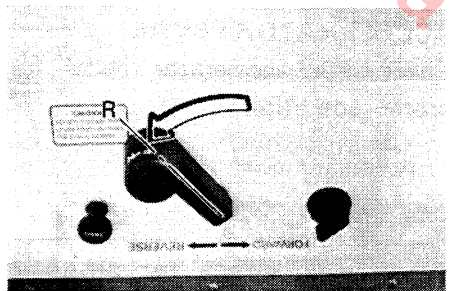
2. If you feel excessive free play, consult a Yamaha dealer.

BACK-UP BUZZER

Check the back-up buzzer.

NOTE:

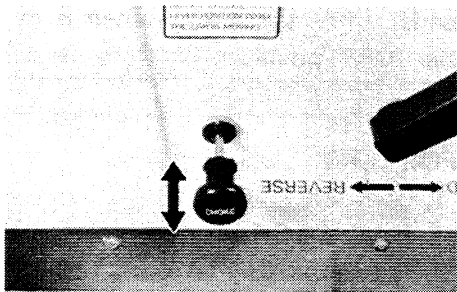
Turn the drive select lever to "REVERSE". The buzzer should sound.

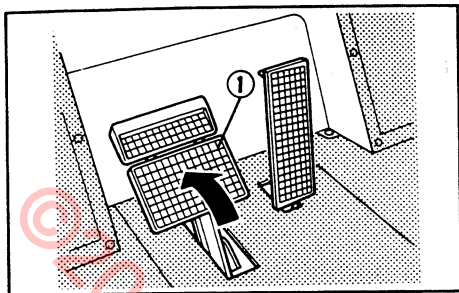


CHOKE

(FOR G9-A)

Check the choke operation.

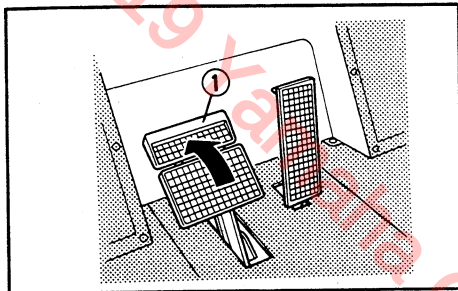




BRAKE PEDAL

Check the brake pedal for proper operation.

- ① Brake pedal



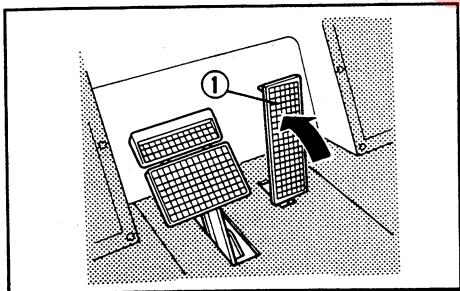
PARKING BRAKE PEDAL

Check the parking brake pedal for proper operation.

- ① Parking brake pedal

NOTE:

Release the parking brake by depressing the accelerator pedal.



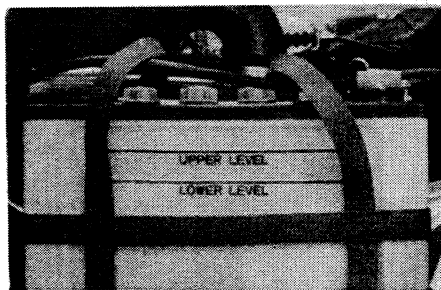
ACCELERATOR PEDAL

Check the accelerator pedal for proper operation.

- ① Accelerator pedal

⚠ WARNING

Be sure to check for smooth operation of the accelerator pedal while the main switch is in the "OFF" position.



BATTERY FOR G9-A

1. Open the seat.
(See page 8-14)
2. Check the fluid level and top-up if necessary.
Use only distilled water if refilling is necessary.

OPERATION

DRIVING

1. Turn the drive select lever to "F" or "R" to move the machine.

- ① Forward
- ② Reverse

IMPORTANT:

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

7

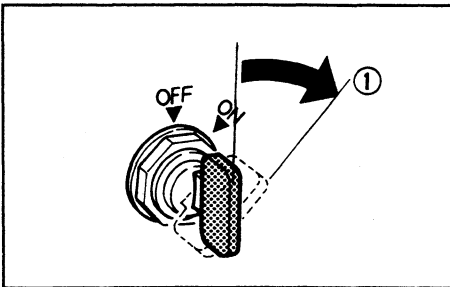
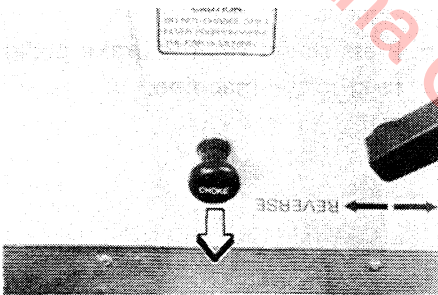
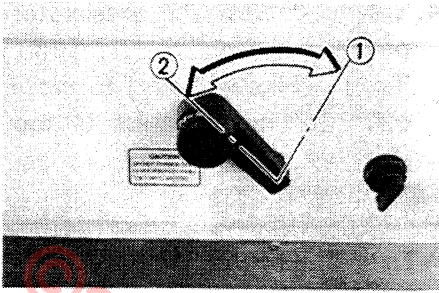
2. Fully pull the choke knob and hold it. (G9-A)

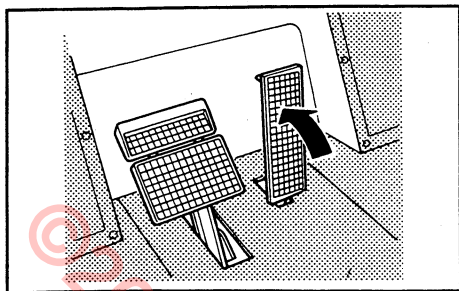
IMPORTANT:

- The choke knob should be returned to the original position after the engine warms up.
- The choke is not required when the engine is warm.

3. Turn the main switch to "ON".

- ① "ON"





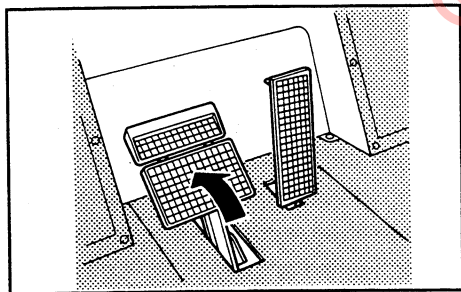
4. Slowly depress the accelerator pedal.

The machine will start to move off. Do not depress it too sharply.

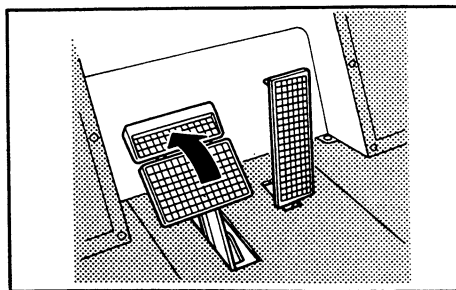
⚠ WARNING

- To avoid moving unexpectedly, do not depress the accelerator pedal before turning on the main switch.
- Avoid turning the steering wheel too sharply at high speed. An accident may result.

7



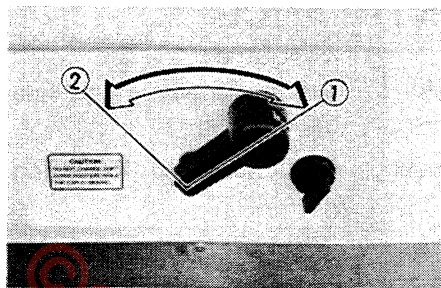
5. Press down on the brake pedal to stop the machine.



6. Apply the parking brake pedal.

NOTE:

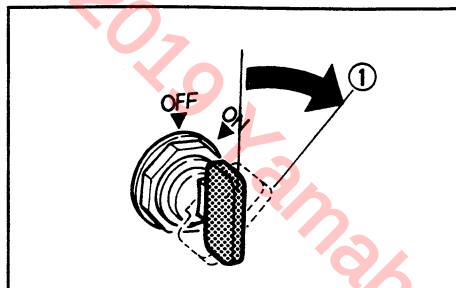
Release the parking brake by depressing the accelerator pedal.



STARTING ON A SLOPE

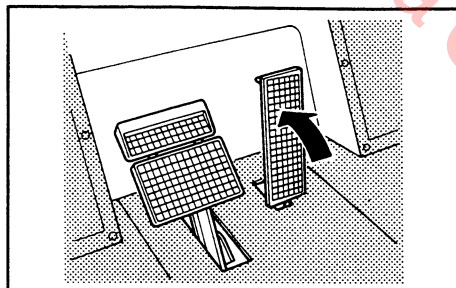
1. Turn the drive select lever to "F" or "R".

- ① Forward
- ② Reverse



2. Turn the main switch to "ON".

- ① "ON"



3. Depress the accelerator pedal.

⚠ WARNING

Only drive straight up or down on a slope. Never drive across the face of slope.

NOTE:

The parking brake is automatically released when depress the accelerator pedal.

PERIODIC MAINTENANCE

MAINTENANCE CHART

Regular maintenance is most important for the best performance and safe operation.

○ Checking or Adjusting ● Lubricating or Replacing

FOR G9-A

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 5000 mls 8000 kms (4 yrs)	
Engine	Adjustment: Valve clearance (cold) [Intake: 0.1 mm (0.004 in), Exhaust: 0.1 mm (0.004 in)]						○	★
	Check tightness of cylinder head						○	★
	Check condition of air filter foam cover.			○				8-9
	Wash the air filter cover with soap and water and allow it to dry.				○			8-9
	Check condition of air filter element assy. Replace element.			○	●			8-9
	Check spark plug for condition of electrodes. Plug gap: 0.7 ~ 0.8 mm (0.028 ~ 0.031 in)			○	●			8-6
	Adjustment: Engine bracket tensioner. [Free play: 2 mm (0.08 in)]				○			★
	Check engine oil level.	○	○					8-6
	Replace oil: Oil amount: 1.1 L (1.16 US qt/0.97 Imp qt) Oil type: SAE 10W30 type SE or SF motor oil (If temperature does not go below 2°C (35°F): SAE 20W40)				●			8-8
	Check oil delivery hose and check-valve. Replace hose.					○	●	★
	Check compression pressure.						○	★

★ It is recommended that these items be serviced by a Yamaha dealer or other qualified mechanic.

- This manual does not contain information regarding this procedure. It is contained in the Service Manual.

FOR G9-A

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 5000 mls 8000 kms (4 yrs)	
Fuel system	Adjustment: Throttle cable [Free play: 0.5 mm (0.02 in)]				○			*
	Adjustment: Choke cable [Free play: 1 mm (0.04 in)]				○			*
	Check operation of cables.	○						
	Check carburetor for dirt, or wear.					○		*
	Check fuel lines for fuel leakage. Replace fuel hose.	○					●	*
	Check fuel filter for clogging. Replace filter.				○		●	*
	Check fuel level.	○						6-2
Primary and secondary sheaves	Check drive belt for slippage, wear, or scratches.				○			*
	Grease primary sheave. Grease amount: 2~3 shots (manual grease gun), 2~3 seconds (automatic grease gun) Grease type: Molybdenum disulfide grease				●			*
	Lubricate secondary sheave B/G area.				●			*
	Check for operation and wear of sliding sheave.				○			*
	Check for wear of ramp shoes on secondary spring seat. Wear limit: 1.0 mm (0.04 in)				○			*
Transmission case	Check for operation and installation of speed limiter.				○			*
	Check for operation of forward-reverse shifting.		○					
	Check for damage of shifting cable, replace.				○		●	
	Check gear box oil level and leakage.				○			*
	Replace gear box oil. Oil amount: 0.8 L (0.70 Imp qt, 0.85 US qt) Oil type: SAE90 gear oil						●	*
Battery	Check electrolyte level.	○	○					8-13
	Check specific gravity of electrolyte.				○			8-16

FOR G9-E

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 5000 mls 8000 kms (4 yrs)	
Batteries	Charge.	○						8-16
	Check electrolyte level.		○					8-15
	Clean tops and terminals, check for corrosion.		○					
	Check for loose or broken connections.		○					
	Check the specific gravity of electrolyte.		○					8-20
Solenoid relay	Check solenoid contacts.			○				*
Traction motor	Check for loose or broken connections.		○					*
	Check brush and commutator.						○	*
Wiring	Check all wire insulation for cracks and/or worn spots.			○				*
Transmission case	Check gearbox oil level and leakage.			○				*
	Replace gear box oil. Oil capacity: 0.8 L (0.70 Imp qt, 0.85 US qt) Oil type: SAE 90 gear oil					○		*

- * It is recommended that these items be serviced by a Yamaha dealer or other qualified mechanic.
- This manual does not contain information regarding this procedure. It is contained in the Service Manual.

FOR G9-A & G9-E

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 5000 mls 8000 kms (4 yrs)		
Brakes	Check operation and adjust if necessary.	○							
	Adjustment: Brake pedal free play. [25~30 mm (0.98~1.18 in)]				○			8-27	
	Check for wear or damage parking brake ratchet and stopper.				○			*	
	Check shoe lining thickness. Wear limit: 1.0 mm (0.04 in)				○			*	
Steering	Check operation and adjust if necessary.	○						6-4	
	Check gear box for grease leakage. Grease amount: 0.09 L (3.17 Imp oz, 3.04 US oz) Grease type: Multi type grease						○	*	
	Adjustment: Wheel alignment [Toe-in: Unloaded G9-A 16±5 mm (0.62±0.20 in) G9-E 9±5 mm (0.35±0.20 in) Fully loaded 0 mm (0 in)]				○			*	
	Check kingpin play.				○			*	
	Check seal, cap of kingpin for damage.				○			*	
	Lubricase kingpin.				●			*	
Wheel	Check tire pressure and correct if necessary. Front and rear: G9-A 88~108 kPa (0.9~1.1 kgf/cm², 13~16 psi) G9-E 108~127 kPa (1.1~1.3 kgf/cm², 16~18 psi)	○						6-4	
	Check tire groove depth or far damage. Wear limit: 1.0 mm (0.04 in)				○			6-4	
	Check tire surface for damage, cracks, or hard objects embedded.	○			○				

Item	Remarks	Every						Page
		Pre- Opera- tion	20Rounds 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 5000 mls 8000 kms (4 yrs)	
	Check tightness of wheel nut.				○			
	Check wheel rims for damage.				○			
	Check for play front wheel bearing.				○			
	Check for play rear axle bearing.				○			★
	Check rear axle for cracks, or distortion.				○			★
Body & Chassis	Check body and chassis for damage.				○			★
	Check tightness of all bolts, nuts and screws.				○			★
	Check shocks absorber for oil leakage.				○			★
	Check coil spring for cracks, or damage.				○			★
Starter	Check starter V-belt for damage, tension and tightness.				○			★
	Check brushes for wear. Wear limit: 16 mm (0.63 in)					○		★
	Check commutator for dirt.					○		★
Accelerator stop switch.	Check operation, and adjust if necessary.				○			★
Back-up buzzer	Check operation.	○						

IMPORTANT:

Keep high pressure water away from all electric parts; solenoid and connector.

- ★ It is recommended that these items be serviced by a Yamaha dealer or other qualified mechanic.
 - This manual does not contain information regarding this procedure. It is contained in the Service Manual.

MAINTENANCE FOR G9-A

SPARK PLUG INSPECTION

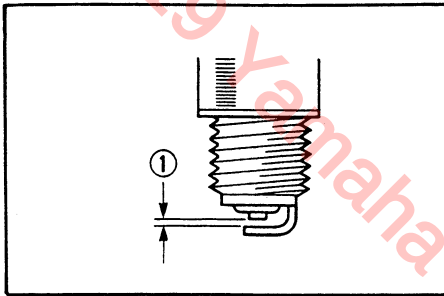
You should periodically remove and inspect the spark plug.

1. Check for discoloration and remove the carbon.

Standard electrode color:
Tan Color

2. Check the spark plug type and gap.

Standard Spark Plug:
BR4ES
Spark Plug Gap:
0.7 ~ 0.8 mm
(0.028 ~ 0.031 in)



① Gap

3. Install the spark plug.

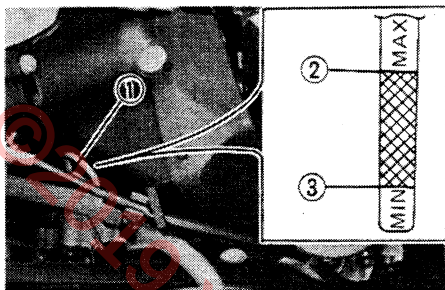
Spark Plug Torque:
20 Nm (2.0 m·kg, 14.5 ft·lb)

ENGINE OIL

Oil level checking

1. Warm the engine for several minutes.
Place the machine on a level surface, then stop the engine.
2. Open the seat.

MAINTENANCE FOR G9-A



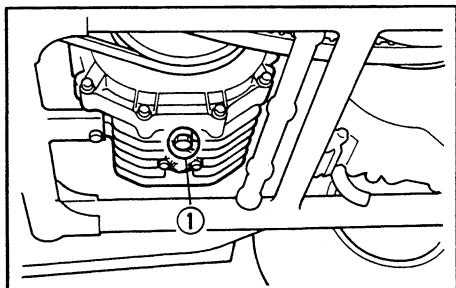
3. Allow time for the oil to return to the crankcase.
4. Make sure the engine oil is between the upper and lower levels. Add oil as necessary.

- ① Level gauge
- ② Upper
- ③ Lower

IMPORTANT:

- Do not overfill the engine oil.
- Be sure to avoid getting oil on the starter belt.
- Be sure no foreign material enters the crankcase.

8



Engine oil replacement

1. Proceed with the "OIL LEVEL CHECKING" items.
2. Place an oil pan under the engine. Remove the oil drain plug and let the oil drain completely.

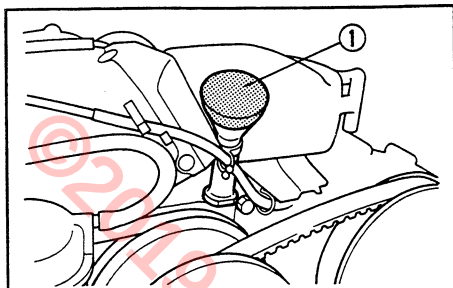
- ① Drain plug

3. Check the drain plug gasket. If damaged, replace it.
4. Install the drain plug.

Drain plug torque:

35 Nm (3.5 m·kg, 25 ft·lb)

MAINTENANCE FOR G9-A



5. Add oil through the oil filler hole.

① Oil filler hole.

Recommended oil:

YAMALUBE 4-cycle oil or
10W-30

Engine oil quantity:

Total:

1.1 L

(0.97 Imp qt, 1.16 US qt)

NOTE: _____

Recommended engine oil classification:

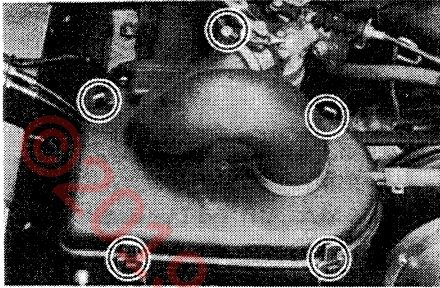
API Service "SE" or "SF".

IMPORTANT: _____

- Do not overfill the engine oil.
- Be sure to avoid getting oil on the starter belt.
- Be sure no foreign material enters the crankcase.

6. After replacement of engine oil. Be sure to check for oil leaks.

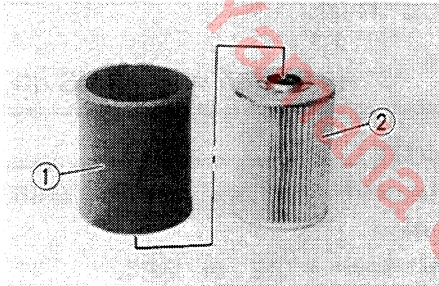
MAINTENANCE FOR G9-A



AIR FILTER

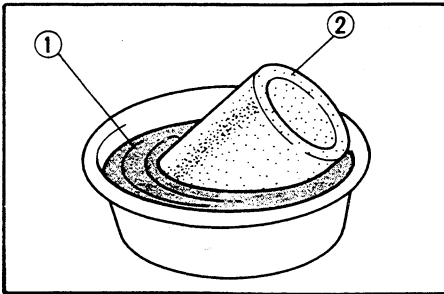
1. Remove the air filter cover and element assembly.

2. Remove the foam element from the paper element.

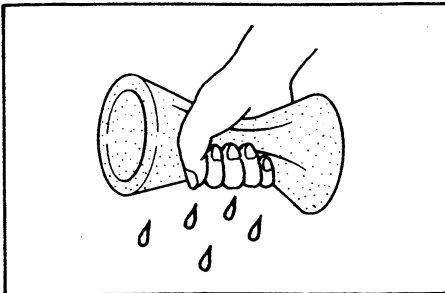


- ① Foam element
- ② Paper element

3. Wash the foam element in soap and water. Allow it to dry.



- ① Soap and water
- ② Element cover

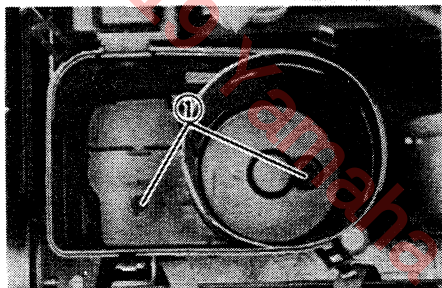


IMPORTANT:

Do not wring out the foam element.
This could cause it to tear.

MAINTENANCE FOR G9-A

4. Check the paper element.
If damaged, replace it.



5. To remove any dirt or grass collecting in the filter case, remove the grommets from the case. The openings can be used as drain holes.

① Grommet

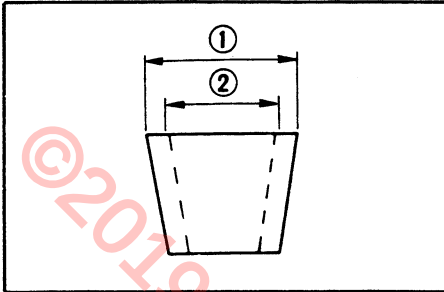
NOTE: _____

The grommet can easily be removed by pushing it by hand.

IMPORTANT: _____

Be sure to install the grommets after cleaning.

MAINTENANCE FOR G9-A



DRIVE V-BELT

Check wear and damage.

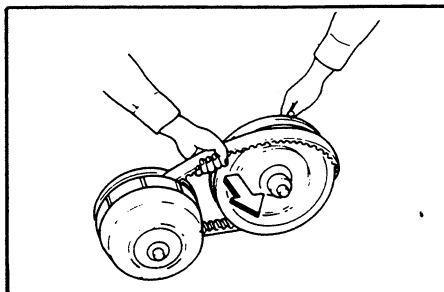
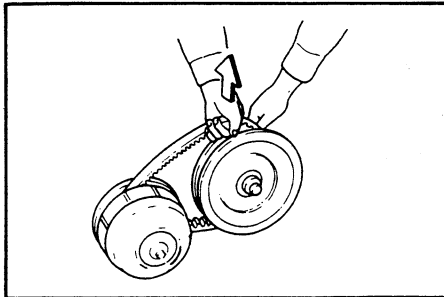
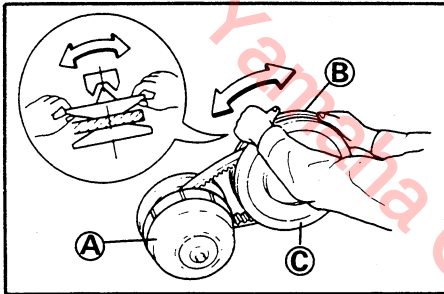
If worn beyond the wear limit or damaged. Replace it with new one.

① New: 31.0 mm (1.22 in)

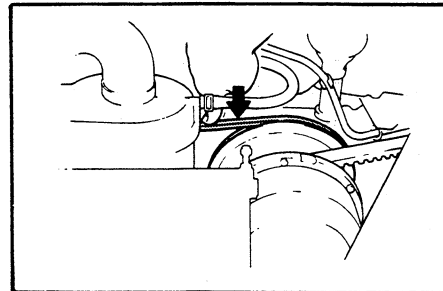
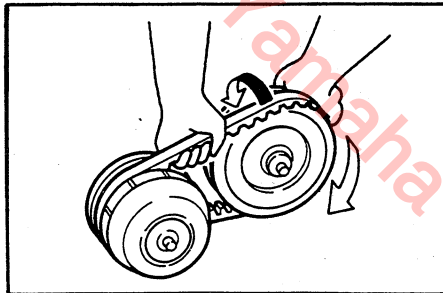
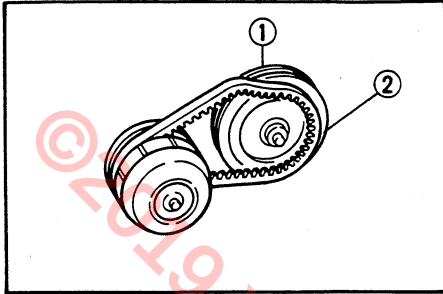
② Wear limit: 27 mm (1.06 in)

How to remove the V-belt

- Set the drive select lever to neutral position.
- Pull out the primary sliding sheave ①.
- Rotate the secondary sliding sheave ② clock-wise and push it.
- Pull up on the drive V-belt, push the belt outward over the edge of the secondary fixed sheave ③.
- Remove the belt from the secondary sheave and primary sheave.



MAINTENANCE FOR G9-A



How to install drive V-belt

- Set the drive select lever to neutral position.
- Install belt over the primary sheave.
- Rotate the secondary sliding sheave clockwise and push it so that it separates from fixed sheave.
- Install the V-belt between secondary sliding and fixed sheave.

① Secondary sliding sheave

② Secondary fixed sheave

8

STARTER GENERATOR BELT

Check for damage, and replace it if it is at all damaged.

Starter-generator belt adjustment.

Check the belt tension by applying a force of 10 kg (22.05 lb) at its center.

Starter-generator belt tension:

New belt (preset tension)

8 mm/10 kg

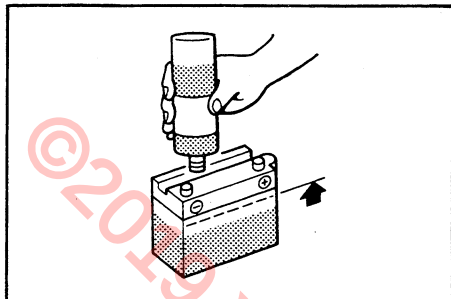
(0.31 in/22.05 lb)

Normal

10 mm/10 kg

(0.39 in/22.05 lb)

MAINTENANCE FOR G9-A



BATTERY

1. Check the fluid level and top up if necessary. Use only distilled water if refilling is necessary.

IMPORTANT:

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

⚠ WARNING

Battery electrolyte is poisonous and dangerous, causing severe burns. etc. It contains sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote: EXTERNAL-Flush with water. INTERNAL-Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call physician immediately.

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

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

Never smoke or make and brake connections at the battery while charging.

Ventilate when charging or using in enclosed space. Always wear eye protection when working near batteries.

KEEP OUT OF REACH OF CHILDREN.

MAINTENANCE FOR G9-E

BATTERY

Battery care

⚠ WARNING

Battery electrolyte is poisonous and dangerous, causing severe burns. etc. It contains sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote: EXTERNAL-Flush with water. INTERNAL-Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call physician immediately.

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

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

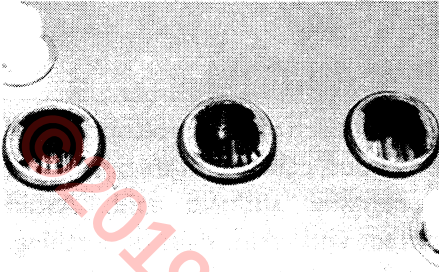
Never smoke or make and brake connections at the battery while charging.

Ventilate when charging or using in enclosed space. Always wear eye protection when working near batteries.

KEEP OUT OF REACH OF CHILDREN.

To keep your batteries in top condition, follow this maintenance program on a regular basis:

MAINTENANCE FOR G9-E



1. Clean the battery tops by hosing off with a water hose. While this is being done, inspect the battery terminals, holddowns and general area for corrosion.

① Battery cap

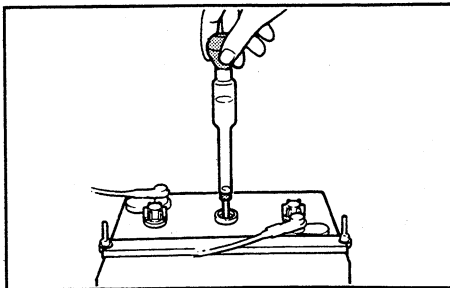
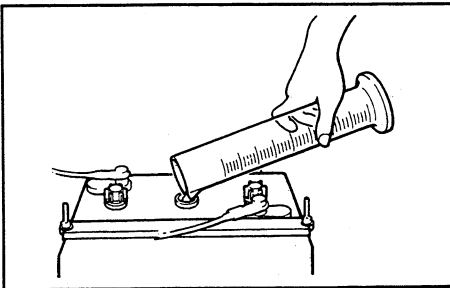
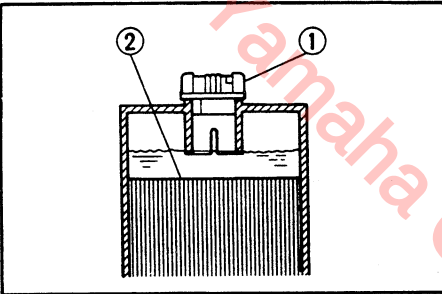
② Plates

2. Check the electrolyte level. Fill to manufacturer's recommended level when necessary. Use only distilled water or other water certified within impurity limits for battery use. Do not overfill!

3. Check the specific gravity of the battery electrolyte by "spot checking" 3 ~ 4 cells.

Always add water as necessary first, then charge the batteries. Wait for bubbles in the electrolyte to dissipate, then check specific gravity. If any low readings are found, consult your Yamaha dealer with this information to determine the appropriate action.

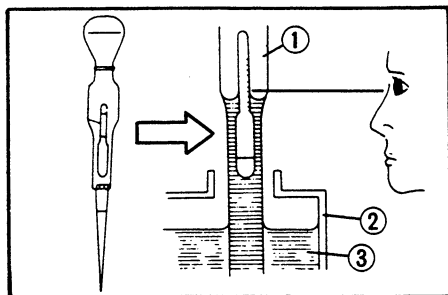
8



MAINTENANCE FOR G9-E

4. Specific gravity.

Temperature		Satisfactory uncorrected hydrometer reading
°F	°C	
120	48.9	1.224
110	43.3	1.248
100	37.8	1.252
90	32.2	1.256
80	26.7	1.260
70	21.1	1.264
60	15.6	1.268
50	10.0	1.272
40	4.4	1.276
30	-1.1	1.280



Check the specific gravity with the hydrometer. Be sure to read as illustrated.

- ① Hydrometer
- ② Battery
- ③ Fluid

Battery charging

⚠ WARNING

- Keep fire and sparks away from the batteries while they are being charged. (Explosive gases are formed during charging)
- Never charge the batteries in a closed area.

Choose a well-ventilated area.

MAINTENANCE FOR G9-E

IMPORTANT:

Take care that the batteries are not over charged. This will shorten their life.

NOTE:

Charge the batteries after each day of use, or periodically during extended storage.

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

① "OFF"

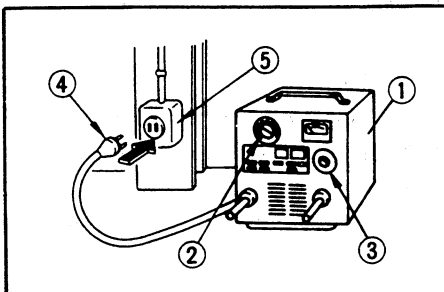
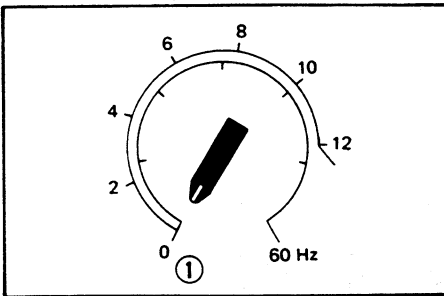
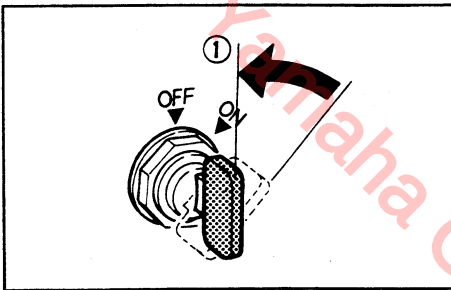
2. Turn off the charger timer switch to the "O Hr" position.

① O-Hr (OFF)

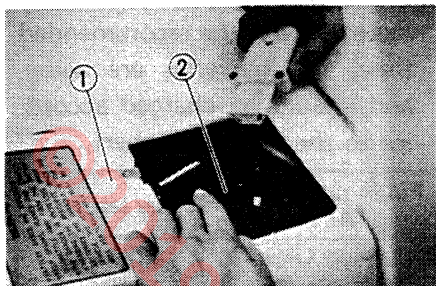
3. Connect the AC plug of the battery charger to a wall socket.

- ① Battery charger
- ② Timer
- ③ Pilot lamp
- ④ AC plug
- ⑤ Wall socket

8



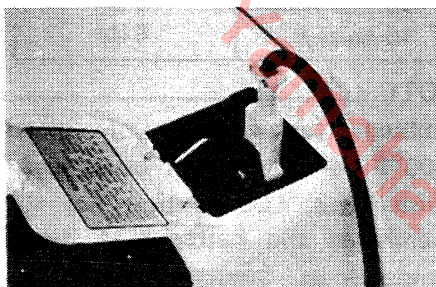
MAINTENANCE FOR G9-E



4. Open the lid and socket cap.

① Lid

② Socket cap

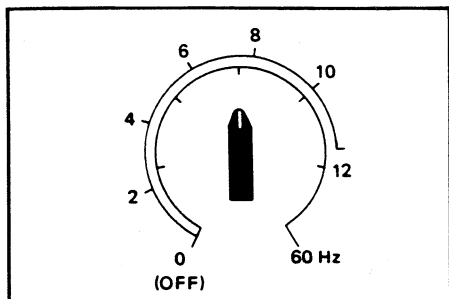


5. Insert the charger plug into the charging receptacle.

⚠ WARNING

Do not unplug the charger from the socket in the car until the charger is turned off. Unplugging an operating charger will cause sparks.

8



6. Set the timer to the desired charging time. The charger will turn on for the indicated number of hours.

Golf Car Use	Charging Time
9 holes or less . . .	.7 hours
18 holes or more . . .	.12 hours or more
Commercial Use	
Less than 1 hour . . .	.7 hours
More than 1 hour . . .	.12 hours or more

MAINTENANCE FOR G9-E

7. If the specific gravity does not increase after the recommended time, the batteries are aging, and should be charged according to the finish rate chart.

Finish rate on Charger Ammeter	Timer setting
1 ~ 4 Amps	12 Hrs
6 ~ 8 Amps	10 Hrs
10 ~ 12 Amps	8 Hrs
15 Amps +	6 Hrs

NOTE:

Ambient temperatures of 38°C (100°F) or higher will cause high finish rates. Use caution not to overcharge the batteries at these temperatures. Colder temperatures will require longer charging times.

8. Batteries should be charged every day that they are used even if the machine only went 9 holes. However, the batteries should not be charged if they are not used unless testing shows that a catch-up charge is required. Otherwise, this would lead to overcharging. Catch-up and storage charge recommendations:

MAINTENANCE FOR G9-E

State of charge (Specific Gravity)	Charge
1.260 to 1.280	None needed
1.240 to 1.260	4 Hours
1.220 to 1.240	8 Hours
Below 1.220	12 Hours

Battery installation

⚠ WARNING

When installing batteries, be careful to avoid short circuiting by:

- Careful placement of battery cables and holdowns.
- Avoid touching wrenches to any metal part of the car (ground).
- Always remove the negative (–) cable to the traction motor first, and install it last.

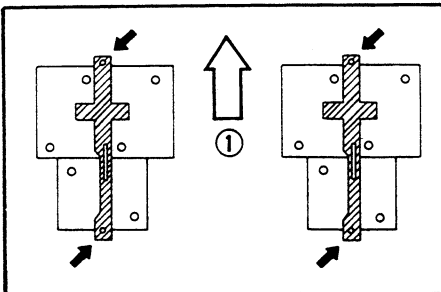
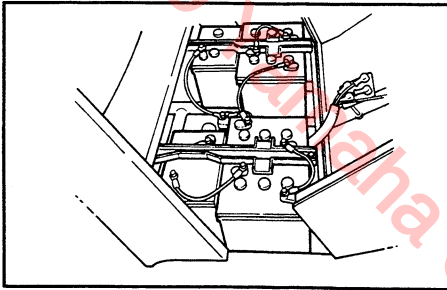
8

IMPORTANT:

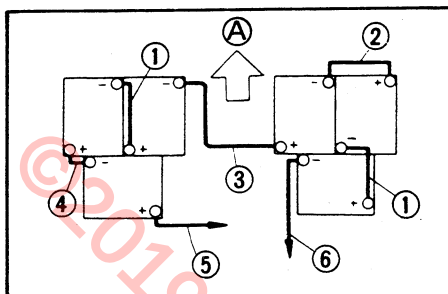
Do not overtighten the battery holddown nuts. Excessive force will damage the battery casing.

1. Install the battery holddown plates in shown.

- ① Forward



MAINTENANCE FOR G9-E

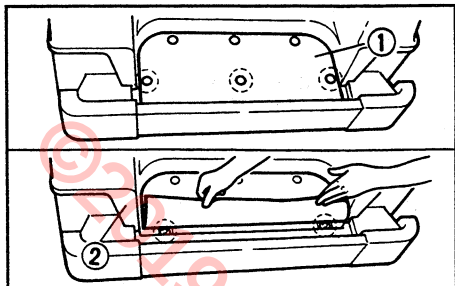


2. Connect the wire leads in shown. Each wire lead has its own length, position and identification mark.

- (A) Forward
- (5) To solenoid
- (6) To Control unit assy

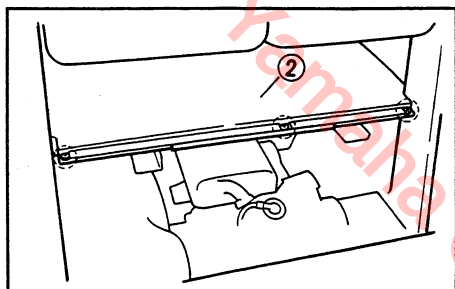
No.	Items	Q'ty	Identification mark
①	Wire, lead 1	2	1
②	Wire, lead 2	1	2
③	Wire, lead 3	1	3
④	Wire, lead 4	1	4
⑤	(Wire, positive lead)	1	+
⑥	(Wire, negative lead)	1	-

MAINTENANCE FOR G9-A & G9-E



GEAR BOX OIL

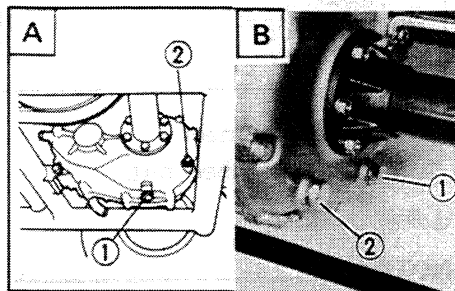
1. Remove the rear of the cover ① and rear cowl ②.



2. Remove the oil filler cap and level plug.

3. Oil should flow from the level plug hole.

If not, add oil until it flows out at the level plug hole.



- ① Drain plug
- ② Oil level plug
- A G9-A
- B G9-E

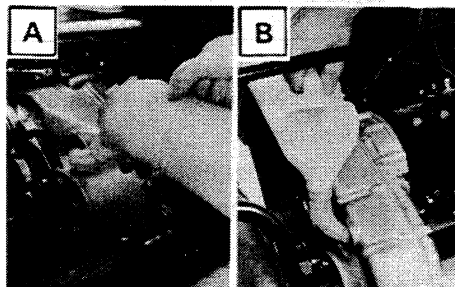
Recommended oil:

SAE 90 gear oil

Capacity:

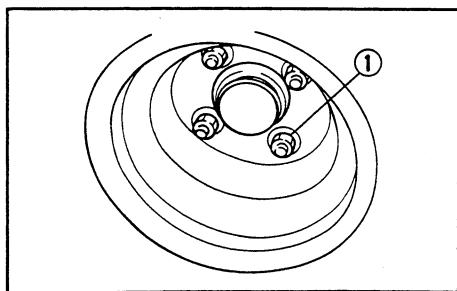
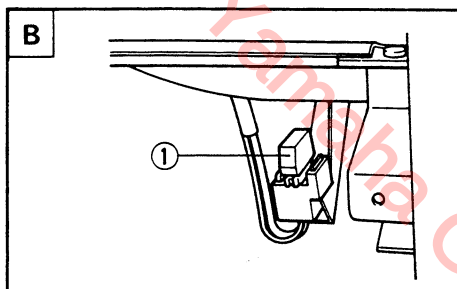
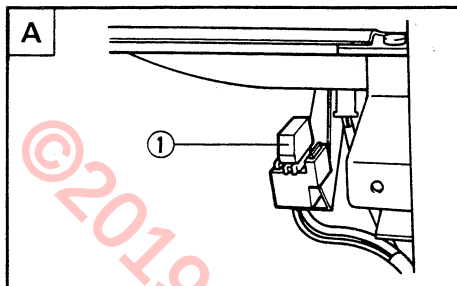
0.8 L

(0.70 Imp qt, 0.85 US qt)



4. Reinstall the level hole plug and oil filler cap.

MAINTENANCE FOR G9-A &G9-E



FUSE REPLACEMENT

⚠ WARNING

Be sure to use the specified fuse.
A wrong fuse will cause electrical
system damage and A FIRE
HAZARD.

IMPORTANT:

Be sure the main switch is turned
off to prevent accidental short
circuiting.

① Fuse case

A G9-A

B G9-E

Standard Fuse:

10A

Front and Rear Wheel

1. Remove the wheel nut.

① Nut

NOTE:

Apply wheel stopper when loosening
the nuts.

2. Raise the wheel using a jack and
wheel stopper.

3. Remove the wheel.

4. Reverse the removal steps when
installing.

MAINTENANCE FOR G9-A &G9-E

Wheel Nut Tightening Torque:

Front; 80 Nm
(8.0 m·kg, 58 ft·lb)

Rear; 80 Nm
(8.0 m·kg, 58 ft·lb)

NOTE: _____

Tighten the wheel nuts after lowering the wheel.

8

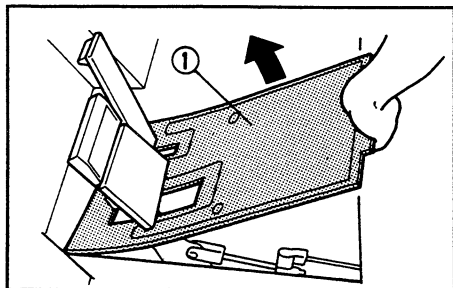
BRAKES

Brake shoe adjustment:

Brake shoes are self-adjusting. Before the initial start on a new car, just step down the brake pedal about 10 times to make sure that braking works.

⚠ WARNING

If the brakes do not adjust properly, consult a Yamaha dealer. You could have an accident if the brakes are not operating correctly.

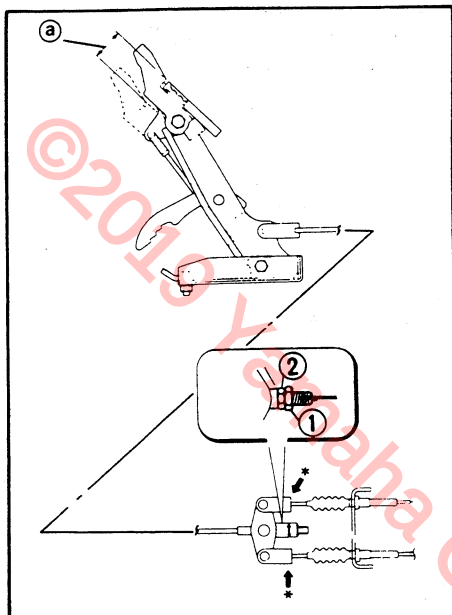


Linkage adjustment

1. Remove the service lid.

① Service lid

MAINTENANCE FOR G9-A &G9-E



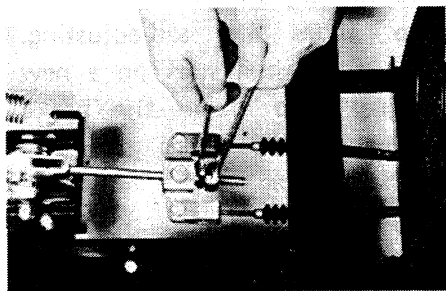
2. Check the brake pedal free play as specified.

Brake pedal free play (a) :
25 ~ 30 mm (0.98 ~ 1.18 in)

- ① Locknut
- ② Adjuster

3. If not, loosen the lock nut ① , and adjust the free play (a) by turning the adjuster in or out.

Adjuster ②	Free play
Turning in	Decreasing
Turning out	Increasing



⚠ WARNING

Do not overtighten the brake cables. The self adjusters may not operate properly, reducing braking performance.

TROUBLESHOOTING

Engine won't start (FOR G9-A)

1. Fuel system

No fuel supplied to combustion chamber.

- No fuel in tank Supply fuel
- Clogged fuel line Clean fuel line. Consult dealer.
- Foreign matter in fuel cock Clean fuel cock. Consult dealer.
- Clogged carburetor Clean carburetor. Consult dealer.

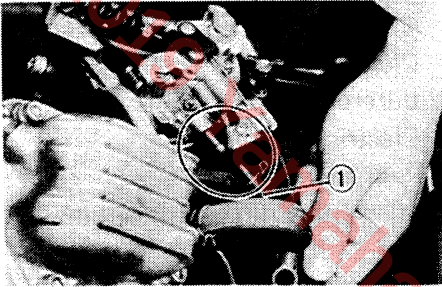
2. Electrical system

Poor spark

- Spark plug dirty with carbon or wet Remove carbon or wipe spark plug dry
- Faulty ignition system Consult dealer.

STORAGE

Long term storage of your machine will require some preventive procedures to guard against deterioration.



DRAIN THE FUEL (FOR G9-A)

1. Fill the fuel tank.
2. Drain the carburetor float bowl.

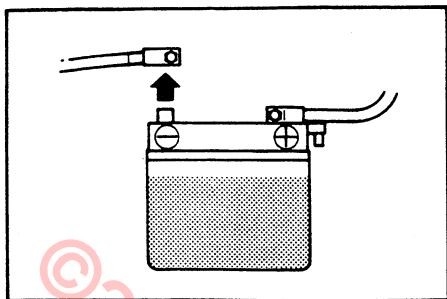
① Fuel line

ENGINE (FOR G9-A)

With the key removed and the spark plug lead disconnected, turn the clutch by hand until compression is felt. This puts the valves in the closed position.

CHASSIS

1. Increase the tire pressure to 137 kPa (1.4 kg/cm², 20psi).
2. Clean exterior of the machine and apply a rust inhibitor.
3. Store the machine in a dry, well-ventilated place, with a cover place over it.



BATTERY FOR G9-A

Remove the battery and charge it. Store it in a dry place and recharge it once a month. Do not store the battery in an excessively warm or cold place (less than 0°C (30°F) or more than 30°C (90°F)).

⚠ WARNING

- Disconnect the negative lead first, then positive lead from the battery.
- Connect the positive lead first, then negative lead to the battery when installing the battery.

BATTERY FOR G9-E

1. Clean the tops of the batteries.
2. Check fluid level.
3. Charge the batteries.
4. Recharge once a month.

SPECIFICATIONS

General specifications

Items	G9-A	G9-E
Dimensions: Overall Length Overall Width Overall Height (Steering height) Height of Floor Height of Seat from Floor Wheelbase Tread: Front Rear Min. Ground Clearance	2,322 mm (91.4 in) 1,116 mm (43.9 in) 1,175 mm (46.3 in) 285 mm (11.2 in) 420 mm (16.5 in) 1,550 mm (61.0 in) 900 mm (35.4 in) 900 mm (35.4 in) 104 mm (4.1 in)	
Weight: Dry Weight (Without battery)	275 kg (606 lb)	232 kg (511 lb)
Performance: Maximum Speed Minimum Turning Radius Seating Capacity Hill Climbing Ability	19 km/h (12 mph) 2,900 mm (114 in) 2 persons 27° on pavement	← ← ← 20° on pavement

10

Maintenance specifications

ENGINE

Items	G9-A
Description: Engine Type Number of Cylinder Displacement Bore × Stroke Compression Ratio Cooling System Starting System Ignition System Spark Plug Type Spark Plug Gap Lubrication System	4-stroke, Gasoline, OHV Single 285 cm ³ 73 × 68 mm (2.87 × 2.68 in) 8.1 : 1 Forced air cooled Starter generator TCI BR4ES 0.7 ~ 0.8 mm (0.028 ~ 0.031 in) Wet sump

CHASSIS

Items	G9-A
Transmission: Type V-belt Width and Outer Line Length V-belt Wear Limit	V-belt automatic centrifugal engagement 31 × 1,010 mm (1.22 × 39.76 in) 27 mm (1.06 in)
Governor: Type Adjustment Factory Speed Setting	Oil bath flyweight Screw with locknut 19 km/h (12 mph)

ELECTRIC

Items	G9-A
Battery BCI Reserve capacity Cranking performance (Cold)	Group 24, Minimum 70 min. Minimum 300A

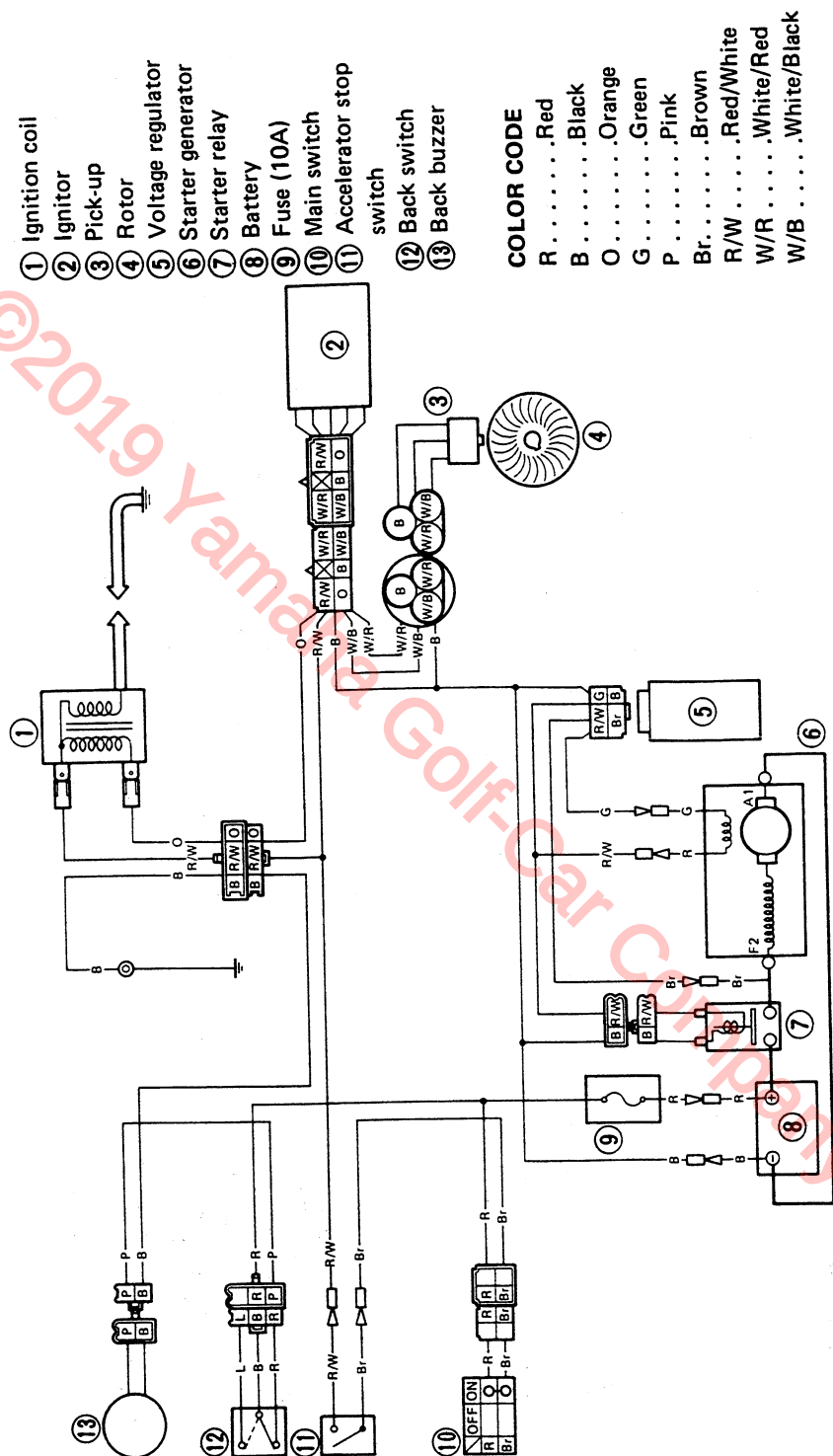
ELECTRIC

Items	G9-E
Battery: Battery size (Maximum)	
Length	267 mm (10.5 in)
Width	181 mm (7.1 in)
Height	265 mm (10.4 in)

CHASSIS

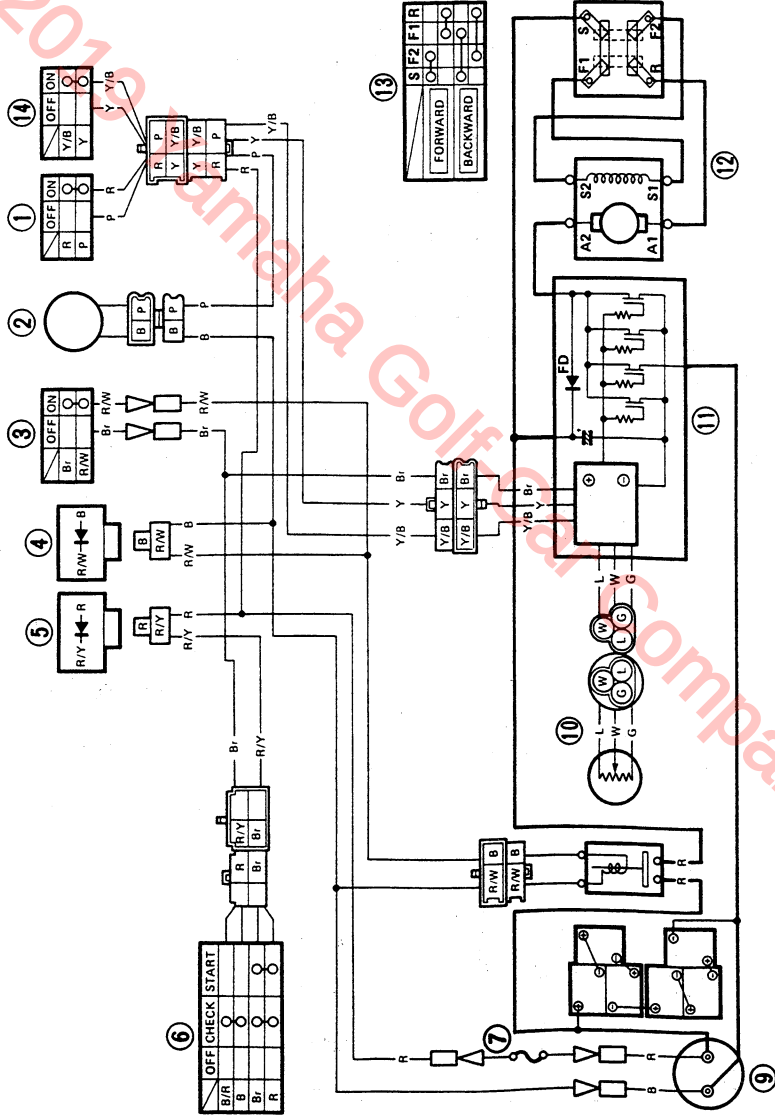
Items	G9-A/G9-E
Differential/Reduction Gear: Differential Type Oil Type/Capacity	Bevel gear SAE 90 Gear oil/ 0.8 L (0.70 Imp qt, 0.85 US qt)
Steering System: Type Steering Angle (L.H.) (R.H.) Lubricant/Capacity	Worm and pin 1.5 turn 1.5 turn Grease/0.09 L (3.17 Imp oz, 3.04 US oz)
Brakes: Brakes System Type of Brake Linkage Adjustment (Brake cable end play)	Mechanical brake linkage to individual drum brakes on each rear wheel with self-adjusting brake shoe. Dual internal expanding shoe. Leading/Trailing shoes (self-adjusting) 0.1 ~ 0.5 mm (0.004 ~ 0.02 in)
Parking Brake: Type	Foot type; Parking brake with automatic release.
Release Timing (Bolt heads round parallel to arm)	1 mm (0.04 in)
Wheel: Tire Size: Front Rear Rim Size: Tire Pressure: Front/Rear FOR G9-A FOR G9-E	18 × 8.50 – 8.00/4 PR 18 × 8.50 – 8.00/4 PR 7.00 – 1 – 8.00 88 ~ 108 kPa (0.9 ~ 1.1 kgf/cm ² , 13 ~ 16 psi) 108 ~ 127 kPa (1.1 ~ 1.3 kgf/cm ² , 16 ~ 18 psi)

WIRING DIAGRAM FOR G9-A



WIRING DIAGRAM FOR G9-E

- ① Back switch
- ② Buzzer
- ③ Accelerator switch
- ④ Diode (B)
- ⑤ Diode (A)
- ⑥ Main switch
- ⑦ Fuse (10A)
- ⑧ Battery
- ⑨ Receptacle
- ⑩ Throttle sensor
- ⑪ Controller
- ⑫ Motor
- ⑬ Shift switch
- ⑭ Limit switch



COLER CODE

B		Black
L		Blue
G		Green
R		Red
Br		Brown
W		White
B/R		Black/Red
Y/B		Yellow/Black
R/Y		Red/Yellow
R/W		Red/White
W/R		White/Red

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