

YAMAHA

OWNER'S MANUAL

Generator

EF1600/2500

LIT-19626-00-22

7LG-28199-11

IDENTIFICATION NUMBER RECORDS

1. PRI-I.D. NUMBER:

MODEL	
PRI-I.D.	1600
CODE	SERIAL No.
76-802832	

2. ENGINE NUMBER:

MODEL	
YAMAHA	1600
CODE	SERIAL No.
CH20A-	106679

Record your Primary I.D., and engine numbers in the spaces provided, to assist you in ordering spare parts from your Yamaha dealer. Also record and keep these I.D. numbers in a separate place in case your machine is stolen.

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.**

EF1600/2500

OWNER'S MANUAL

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Corporation, U.S.A.

1st edition, June 1988

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Printed in Japan

P/N LIT-19626-00-22

⚠ WARNING

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

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

⚠ 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.

CAUTION:

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

NOTE:

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

G-011

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YAMAHA MOTOR CORPORATION, U.S.A. EF- AND EDL-SERIES GENERATOR LIMITED WARRANTY

1
Yamaha Motor Corporation, U.S.A. hereby warrants that new Yamaha consumer generators purchased from an authorized Yamaha consumer generator dealer in the continental United States will be free from defects in material and workmanship for the period of time stated herein, subject to certain stated limitations.

THE PERIOD OF WARRANTY Any new EF-series or EDL-series Yamaha Generator purchased for private, non-commercial use from an authorized Yamaha consumer generator dealer in the continental United States will be warranted against defects in material or workmanship for a period two (2) years from date of purchase, subject to exclusions noted herein. Any Yamaha non-commercial generator purchased and utilized for commercial or rental applications will be warranted for a period one hundred eighty (180) days from the date of purchase, subject to exclusions noted herein.

DURING THE PERIOD OF WARRANTY any authorized Yamaha consumer generator 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 product'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 failures caused by:

- Installation of parts or accessories that are not qualitatively equivalent to genuine Yamaha parts.
- Abnormal strain, neglect, or abuse.
- Lack of proper maintenance.
- Accident or collision damage.

SPECIFIC EXCLUSIONS from this warranty shall include parts replaced due to normal wear or routine maintenance.

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

- Operate and maintain the generator as specified in the appropriate Owner's Manual;

- Give notice to an authorized Yamaha consumer generator dealer of any and all apparent defects within ten (10) days after discovery, and make the unit available at that time for inspection and repairs at such dealer's place of business.

WARRANTY TRANSFER: To transfer the warranty from the original purchaser to any subsequent purchaser(s), it is imperative that the unit be inspected and registered for warranty by an authorized Yamaha consumer generator 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. In no case will the warranty be extended beyond the original period.

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

WARRANTY QUESTIONS AND ANSWERS

- Q. What costs are my responsibility during the warranty period?
A. The customer's responsibility includes all costs of normal maintenance services, non-warranty repairs, accident damages, as well as oil and spark plugs.

- Q. What are some examples of "abnormal" strain, neglect, or abuse?
A. These terms are general and overlap each other in areas. Specific examples include: Running the machine out of oil; lack of proper maintenance; operating the machine with a broken or damaged part which causes another part to fail; and so on. If you have any specific questions on operation or maintenance, please contact your dealer for advice.

- Q. Does the warranty cover incidental costs such as transportation due to a failure?
A. No. The warranty is limited to repair of the machine itself.

- Q. May I perform any or all of the recommended maintenance shown in the Owner's Manual instead of having the dealer do them?
A. Yes, if you are a qualified mechanic and follow the procedures specified in the Owner's and Service Manual. We do recommend, however, that items requiring special tools or equipment be done by a Yamaha generator dealer.

- Q. Will the warranty be void or cancelled if I do not operate or maintain my new Yamaha exactly as specified in the Owner's Manual?
A. No. The warranty on a new Yamaha cannot be "voided" or "cancelled." However, if a particular failure is caused by operation or maintenance other than as shown in the Owner's Manual, that failure may not be covered under warranty.

- Q. What responsibility does my dealer have under this warranty?
A. Each Yamaha generator dealer is expected to:
1. Check the operation of the generator before sale.
2. Explain the operation, maintenance, and warranty requirements to your satisfaction at the time of sale, and upon your request at any later date.
In addition, each Yamaha generator dealer is held responsible for his setup, service and warranty repair work.

- Q. Is the warranty transferable to second owners?
A. Yes. The remainder of the existing warranty can be transferred upon request. The unit has to be inspected and re-registered by an authorized Yamaha generator dealer for the policy to remain effective.

CUSTOMER SERVICE

1
If your machine requires warranty service, you must take it to any authorized Yamaha generator dealer within the continental United States. Be sure to bring your warranty registration identification or other valid proof of the original date of purchase. If a question or problem arises regarding warranty, first contact the owner of the dealership. Since all warranty matters are handled at the dealer level, this person is in the best position to help you. If you are still not satisfied and require additional assistance, please write:

YAMAHA MOTOR CORPORATION U.S.A.
CUSTOMER RELATIONS DEPARTMENT
P.O. Box 6555
Cypress, California 90630

CHANGE OF ADDRESS

The federal government requires each manufacturer to maintain a complete, up-to-date list of all first purchasers against the possibility of a safety-related defect and recall. This list is compiled from the purchase registrations sent to Yamaha Motor Corporation, U.S.A. by the selling dealer at the time of your purchase. If you should move after you have purchased your new generator, please advise us of your new address by sending a postcard listing your Yamaha model name, engine number, dealer number (or dealer's name) as it is shown on your warranty identification, your name and new mailing address. Mail to:

YAMAHA MOTOR CORPORATION, U.S.A.
WARRANTY DEPARTMENT
P.O. Box 6555
Cypress, California 90630

This will ensure that Yamaha Motor Corporation, U.S.A. has an up-to-date registration record in accordance with federal law.

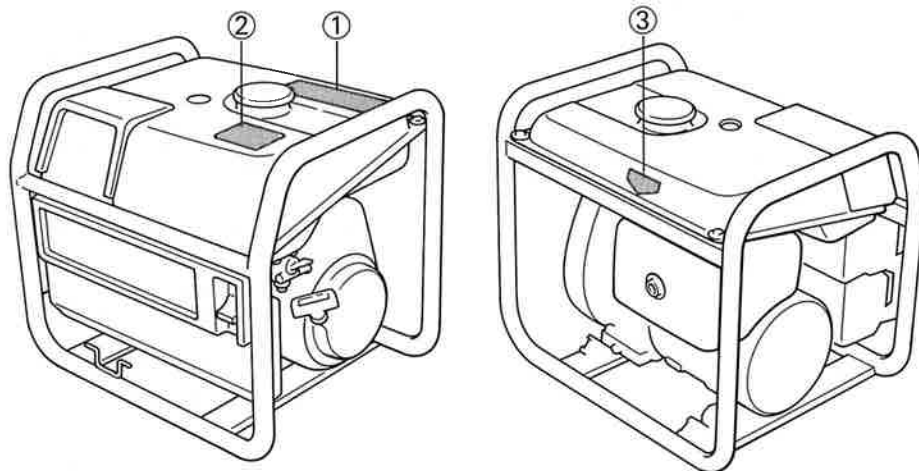
L-015

LOCATION OF IMPORTANT LABELS

Please read the following labels carefully before operating this machine.

NOTE:

Maintain or replace safety and instruction labels, as necessary.



①

WARNING

1. Only operate in well-ventilated areas.
2. Do not operate near flammable materials.
3. Exhaust gasses are poisonous.
4. Keep this unit dry at all times.

IMPORTANT

See "Owner's manual" for general directions.

②

WARNING

Electrocution or property damage can occur: Do not connect this generator to any building's electrical system unless an isolation switch has been installed by a licensed electrician. Refer to the owner's manual.

③

HOT EXHAUST

G-380

SAFETY INFORMATION

G-381

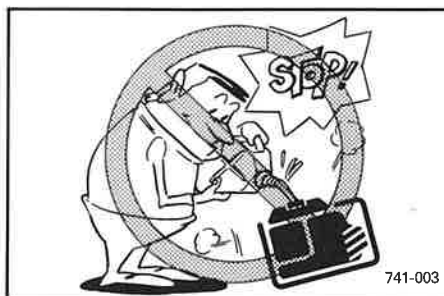
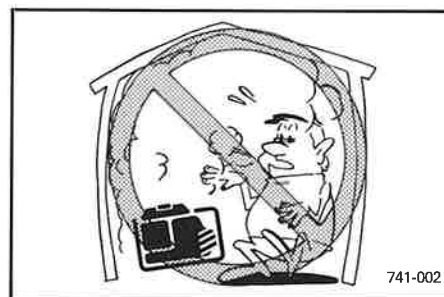
EXHAUST FUMES ARE POISONOUS

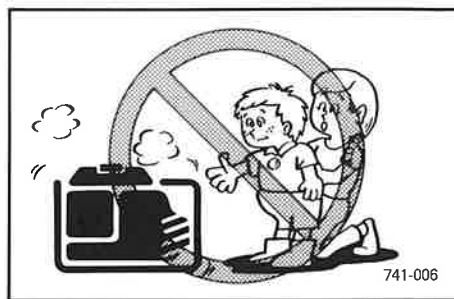
- Never operate the engine in a closed area or it may cause unconsciousness and death within a short time. Operate the engine in a well ventilated area.

G-382

FUEL IS HIGHLY FLAMMABLE AND POISONOUS

- Always turn off the engine when refuelling.
- Never refuel while smoking or in the vicinity of an open flame.
- Take care not to spill any fuel on the engine or muffler when refuelling.
- If you swallow any fuel, inhale fuel vapor, or allow any to get in your eye(s), see your doctor immediately. If any fuel spills on your skin or clothing, immediately wash with soap and water and change your clothes.
- When operating or transporting the machine, be sure it is kept upright. If it tilts, fuel may leak from the carburetor or fuel tank.

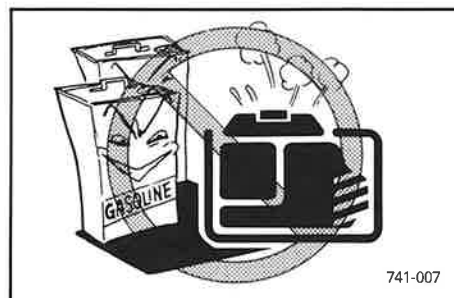




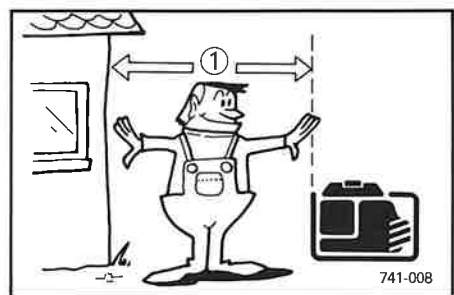
G-383

ENGINE AND MUFFLER MAY BE HOT

- Place the machine in a place where pedestrians or children are not likely to touch the machine.

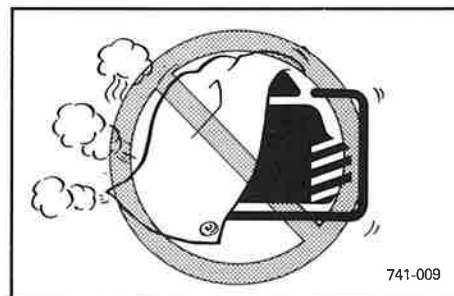


- Avoid placing any flammable materials near the exhaust outlet during operation.

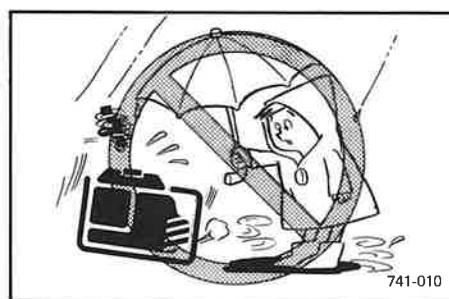


- Keep the machine at least 1 m (3 ft) from buildings or other equipment, or the engine may overheat.

① 1 m (3ft)



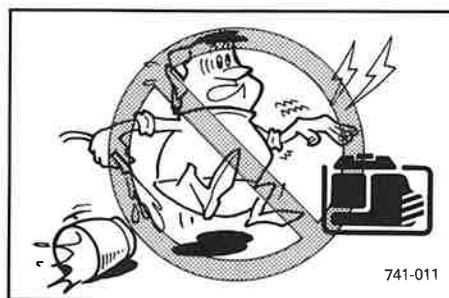
- Avoid operating the engine with a dust cover.



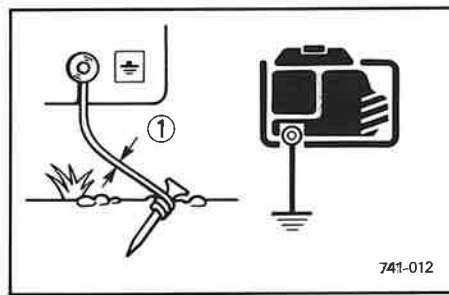
G-384

ELECTRIC SHOCK PREVENTION

- Never operate the engine in rain or snow.



- Never touch the machine with wet hands or electrical shock will occur.



- Be sure to ground (earth) the generator.

NOTE:

Use ground (earth) lead of sufficient current capacity.

Ground (earth) Lead
Diameter:
0.12 mm (0.005 in)/ampere
EX:
10 Ampere → 1.2 mm
(0.05 in)

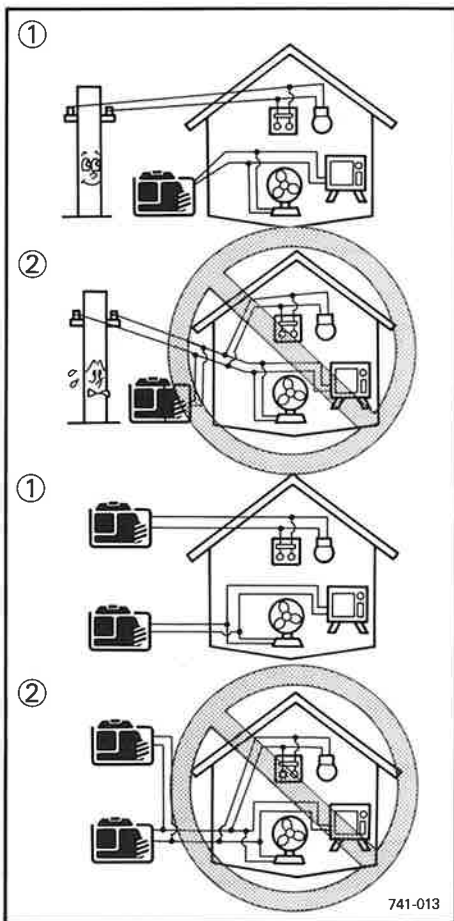
① Lead diameter

G-385

CONNECTION NOTES

- Avoid connecting the generator to commercial power outlet.
- Avoid connecting the generator in parallel with any other generator.

- ① Correct
② Incorrect



741-013

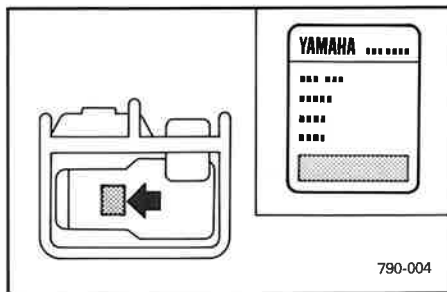
G-030

MACHINE IDENTIFICATION

The machine serial number is stamped in the location as shown.

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.



790-004

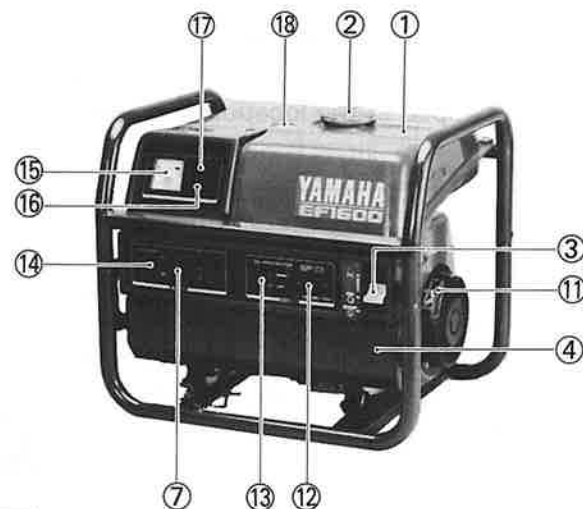
G-050

CONTROL FUNCTION

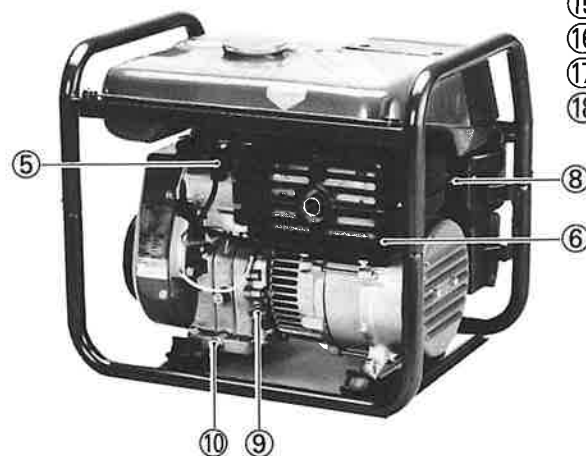
G-051

DESCRIPTION

- ① Fuel tank
- ② Fuel tank cap
- ③ Control lever
- ④ Air filter cover
- ⑤ Spark plug
- ⑥ Muffler
- ⑦ AC socket
- ⑧ Ground (Earth) terminal
- ⑨ Oil filler cap
- ⑩ Oil drain plug
- ⑪ Recoil starter
- ⑫ DC socket
- ⑬ DC protector
- ⑭ AC switch (NFB)
- ⑮ Voltage meter
- ⑯ Oil warning light
- ⑰ Pilot light
- ⑱ Fuel level gauge



5



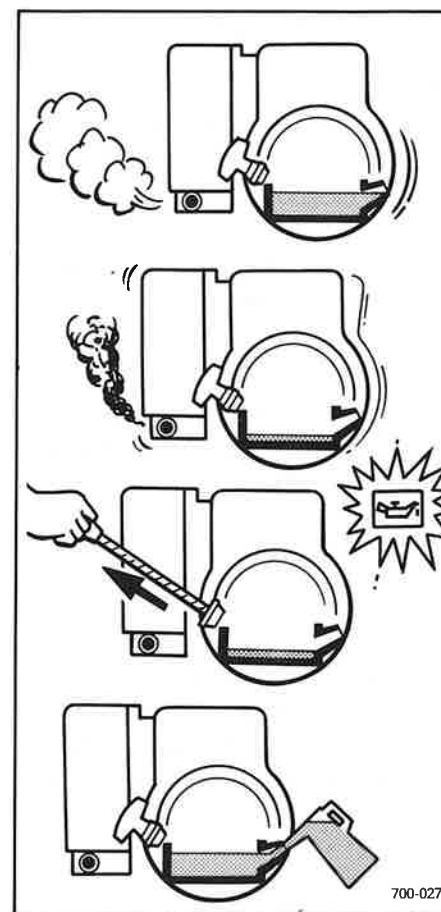
G-202

OIL WARNING SYSTEM

When the oil level falls below the lower level, the oil warning lamp lights and the engine stops automatically. Unless you refill with oil, the engine will not start again.

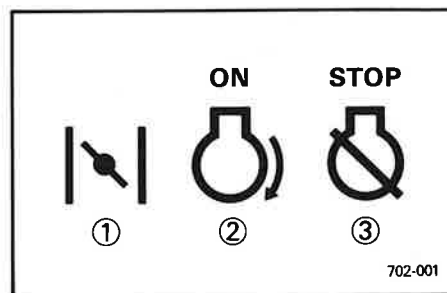
NOTE:

If the engine stalls, pull the recoil starter and if the oil warning light comes on, the engine oil is insufficient. Add oil and restart.



700-027

5



G-220

CONTROL LEVER**Control lever****START ①:**

Turn the lever to this position when cold starting the engine. (Choke valve is closed)

ON ②:

Turn the lever to this position when warm starting the engine and let it run.

STOP ③:

Turn the lever to this position when stopping the engine. (Ignition circuit is switched off.)

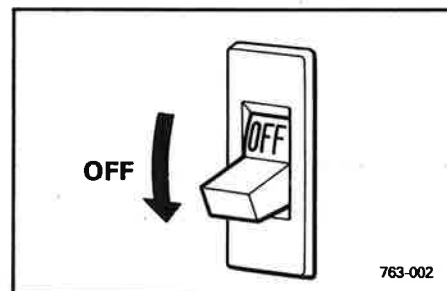
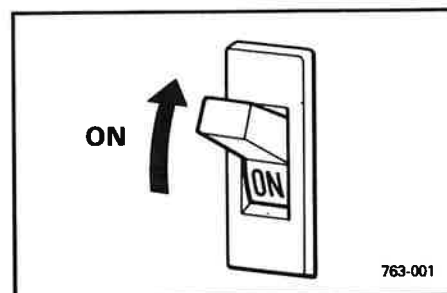
G-250

AC SWITCH (N.F.B.)

The AC switch (Non-Fuse Breaker) turns off automatically when the load exceeds the generator rated output.

CAUTION:

Reduce the load to within specified generator rated output when the AC switch is turned off. If it is turned off again, consult your Yamaha dealer.



G-252

DC PROTECTOR

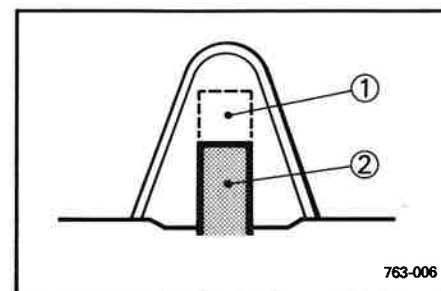
The DC protector turns off automatically when the load exceeds the generator rated output.

CAUTION:

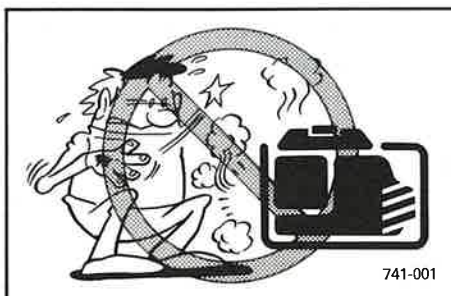
Reduce the load to within specified generator rated output when the DC protector turns off. If it turns off again, consult your Yamaha dealer.

NOTE:

Press to reset the DC protector.



- ① "OFF"
- ② "ON"



G-300

PRE-OPERATION CHECK

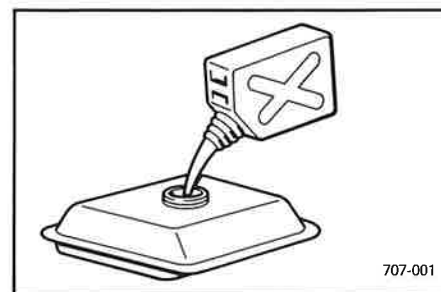
NOTE: _____

Pre-operation checks should be made each time the generator is used.

⚠ WARNING _____

The engine and muffler will be very hot after the engine has been run.

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



G-301

FUEL

Make sure there is sufficient fuel in the tank.

Recommended fuel:

Unleaded gasoline

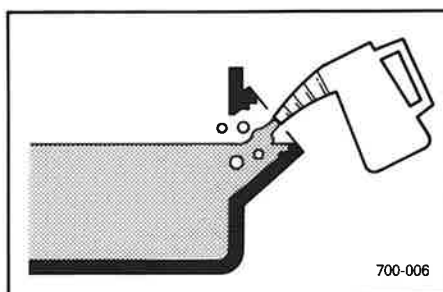
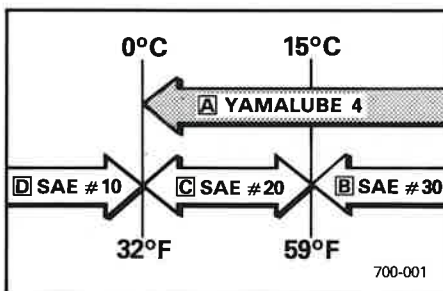
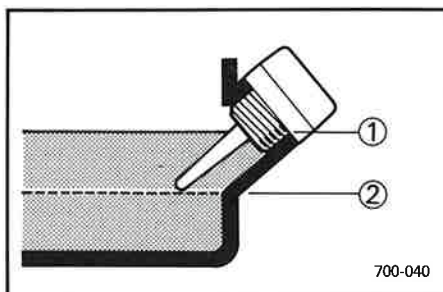
Fuel tank capacity:

Total:

12 L (2.64 Imp gal,
3.17 US gal)

⚠ WARNING _____

- Fuel is highly flammable and poisonous. Check "SAFETY INFORMATION" carefully before refueling.
- After refueling, make sure the tank cap is tightened securely.



G-330

ENGINE OIL

(See page 26 for more details)

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

- ① Upper level
- ② Lower level

Recommended oil:

- A YAMALUBE 4-cycle oil
- B SAE #30
- C SAE #20
- D SAE #10

Engine oil quantity:

0.6 L (0.53 Imp qt, 0.63 US qt)

NOTE:

Recommended engine oil classification:
API Service "SE" or "SF" if not available, "SD".

CAUTION:

The generator has been shipped without engine oil. Fill with oil or it will not start.

G-400

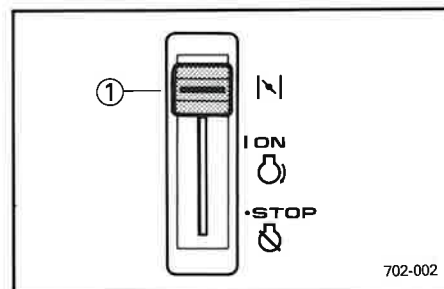
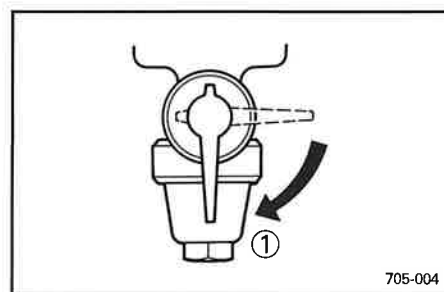
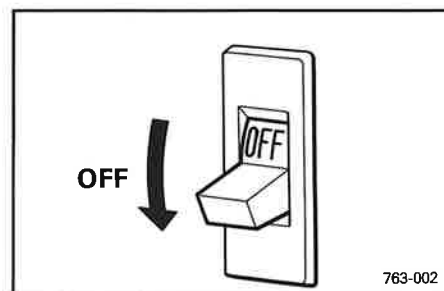
OPERATION**NOTE:**

The generator has been shipped without engine oil. Fill with oil or it will not start.

G-411

STARTING THE ENGINE**NOTE:**

Turn the AC switch (NFB) to the "OFF" position.

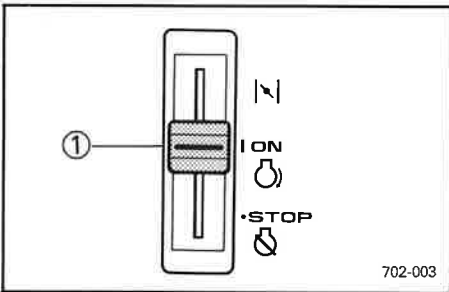
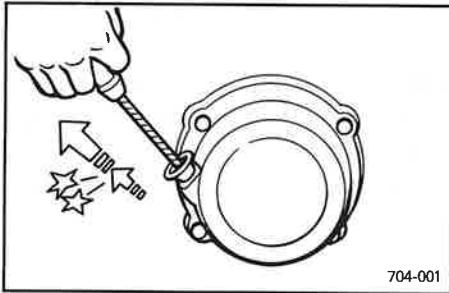
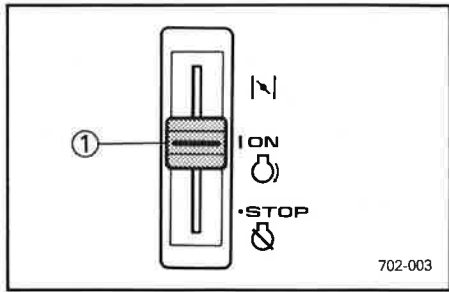


1. Turn the fuel cock lever to "ON" position.


① "ON"

2. Fully close the choke.
The control lever is in "ON" position.


① "ON" Choke



NOTE: _____

The choke is not required when the engine is warm. The control lever is in "ON"  position.


① "ON"

3. Slowly pull on the recoil starter until engagement, then pull briskly. After the engine starts, warm up the engine until the engine does not stop when the control lever is returned to "ON"  position.





4. After the engine starts, let the engine warm up briefly. Then move the control lever to "ON" position.

① "ON"

NOTE: _____

If engine begins to stop, return control lever to choke  position until engine is warmer.

APPLICATION RANGE

AC current				DC current
Power factor	1	0.8 ~ 0.95	0.4 ~ 0.75	
EF1600	~ 1400W	~ 1120W	~ 740W	Rated voltage 12V Rated current 10A
EF2500	~ 2200W	~ 1760W	~ 1320W	

NOTE: _____

- " ~ " means below
- Application wattage indicates when each apparatus is used by itself.
- The simultaneous usage of AC and DC power is possible but total wattage should not exceed the rated output.

EX:

Generator rated	Output	1400
Frequency	Power factor	
AC	1.0	~ 1280W
	0.8	~ 1024W
DC	—	120W (12V/10A)

CAUTION: _____

Be sure the total load is within generator rated output or generator damage will occur.

G-440

CONNECTION

G-441

AC current

CAUTION:

- Be sure the electric apparatus is turned off before plugging in.
- Be sure the total load is within generator rated output.
- Be sure the socket load current is within socket rated current.

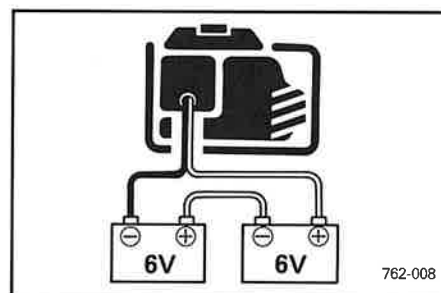
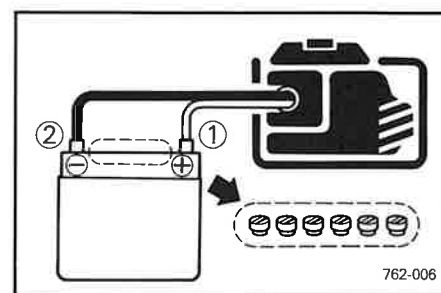
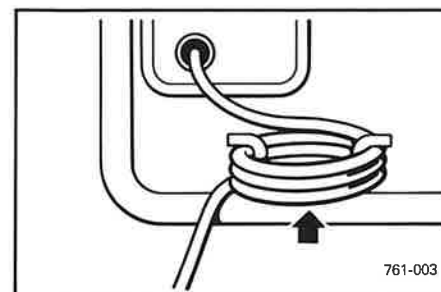
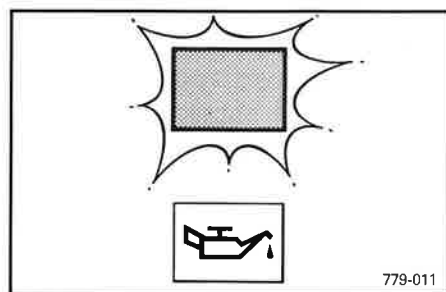
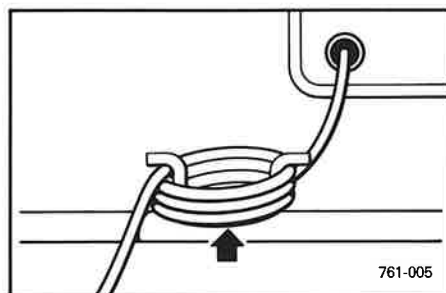
1. Wind the apparatus power lead 2 or 3 turns around lead holder and plug into AC socket.

2. Start the engine, making sure the pilot light is on and voltage meter indicates the rated voltage.

3. Turn the AC switch to "ON" position and turn on the electric apparatus.

CAUTION:

Reduce the load to within specified generator rated output when the AC switch is turned off. If it is turned off again, consult your Yamaha dealer.



G-473

Battery Charging

NOTE:

The generator DC rated voltage is 12V.

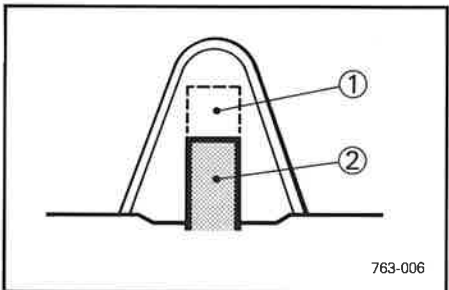
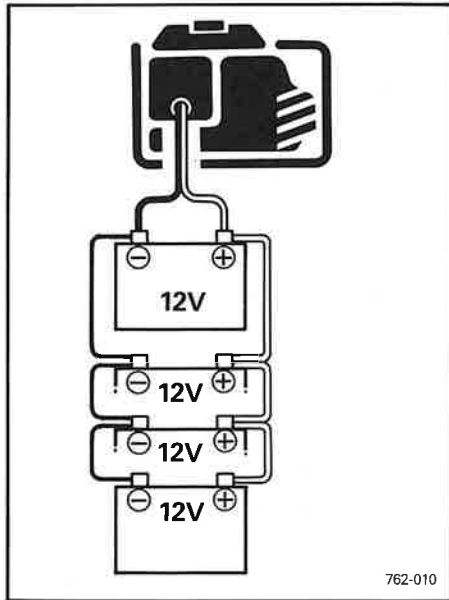
1. Wind the battery charging lead (furnished as an accessory) 2 or 3 turns around the frame and plug into DC socket.

NOTE:

- Make connections to the battery after starting the engine.
- Clamp the red wire to the positive (+) terminal and the black wire to the negative (-) terminal of the battery. Do not reverse these positions.

- ① Red
- ② Black

2. Start the engine and charge battery.



NOTE: _____

- At full charge, electrode specific gravity is between 1.26 and 1.28.
- Check specific gravity hourly.

3. Press in the DC protector and install the battery.

CAUTION: _____

- Be sure the battery leads are properly connected.
- Be sure the breather pipe is properly connected and is not damaged or obstructed.
- Reduce the load to within specified generator rated output when the DC protector turns off. If it turns off again, consult your Yamaha dealer.

NOTE: _____

Press to reset the DC protector.

① "OFF"

② "ON"



⚠ WARNING _____

Never smoke or make and break connections at the battery while charging. Sparks may ignite the battery gas.

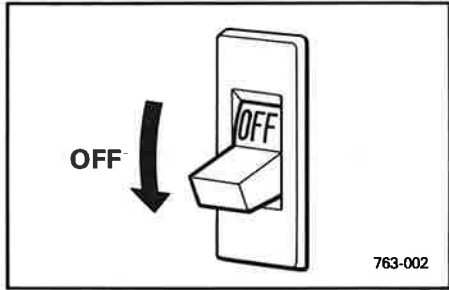
Battery electrolyte is poisonous and dangerous, causing severe burns, etc. contains sulfuric (sulphuric) acid. Avoid contact with skin, eyes or clothing.

Antidote:

EXTERNAL-Flush with water.

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

Eyes: Flush with water for 15 minutes and get prompt medical attention. Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc. away. Ventilate when charging or using in closed space. Always cover eyes when working near batteries. **KEEP OUT OF REACH OF CHILDREN.**

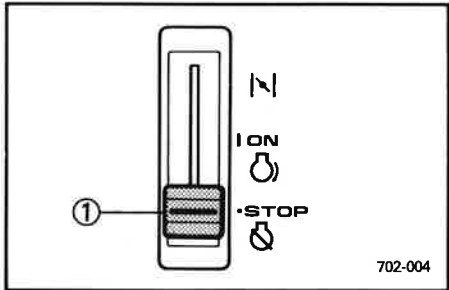


G-485

STOPPING THE ENGINE

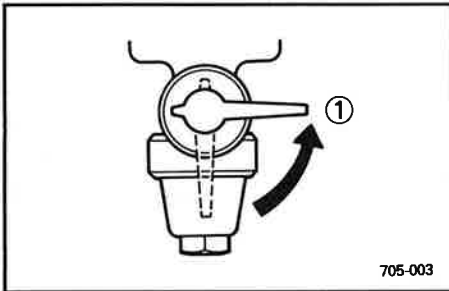
NOTE:

Turn the AC switch (NFB) to the "OFF" position.



1. Turn the control lever to "STOP" & " " position to stop the engine.

① "STOP"



2. Turn the fuel cock to "OFF".

① "OFF"

G-500

PERIODIC MAINTENANCE

G-506

MAINTENANCE CHART

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

No.	Item	Remarks	Pre-Operation check (daily)	Initial	Every			
				1 month or 20 Hr	3 months or 50 Hr	6 months or 100 Hr	12 months or 300 Hr	
1.	Spark Plug	Check condition adjust gap and clean. Replace if necessary.			●			
2.	Engine Oil	Check oil level	●					
		Replace		●		●		
3.	Air Filter	Clean. Replace if necessary.			●			
4.	Fuel Filter	Clean fuel cock and fuel tank filter. Replace if necessary.				●		
5.*	Valve Clearance	Check and adjust when engine is cold.					●	
6.*	Fuel Line	Check fuel hose for crack or damage. Replace if necessary.	●					
7.	Exhaust System	*Check for leakage. Retighten or replace gasket if necessary.	●					
		Check spark arrester. Clean/replace if necessary.						●

No.	Item	Remarks	Pre-Operation check (daily)	Initial	Every		
				1 month or 20 Hr	3 months or 50 Hr	6 months or 100 Hr	12 months or 300 Hr
8.	Carburetor	Check choke (Control lever) operation.	●				
9.*	Cooling System	Check fan damage.					●
10.	Starting System	Check recoil starter. Operation.	●				
11.*	Decarbonization	More frequently if necessary.					●
12.	Generation	Check if pilot light comes on.	●				
13.*	Fittings/ Fasteners	Check all fittings and fasteners. Correct if necessary.				●	

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

G-520

SPARK PLUG INSPECTION

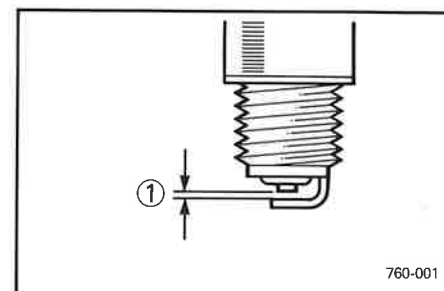
You should periodically remove and inspect the spark plug.

1. Check for discoloration and remove the carbon.

Standard electrode color:
Tan Color

2. Check the spark plug type and gap.

Standard Spark Plug:
BPR6HS
Spark Plug Gap:
0.6 ~ 0.7 mm (0.024 ~ 0.028 in)



- ① Gap

3. Install the spark plug.

Spark Plug Torque:
20 Nm (2 m•kg, 14 ft•lb)

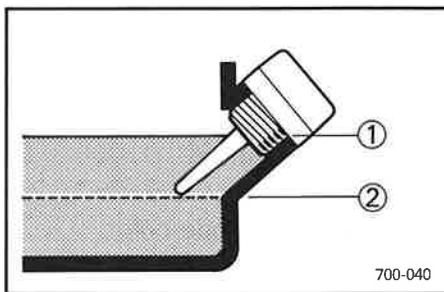
G-540

ENGINE OIL

G-541

Oil level checking

1. Place the machine on a level surface and warm up the engine for several minutes. Then stop the engine.
2. Remove the oil filler cap.



700-040

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

- ① Upper level
- ② Lower level

G-560

Oil replacement

1. Proceed with the "OIL LEVEL CHECKING" items 1 and 2.
2. Place an oil pan under the engine. Remove the oil drain plug so that the oil can be completely drained.
3. Check the drain plug, gasket, oil filler cap and O-ring. If damaged, replace it.

- ① O-ring.
- ② Gasket.

4. Reinstall the oil drain plug.

Drain Plug:
25 Nm (2.5 m•kg, 18 ft•lb)

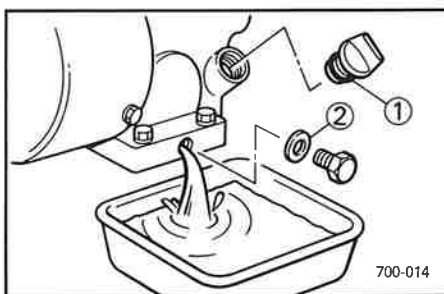
5. Add engine oil.

Recommended oil:

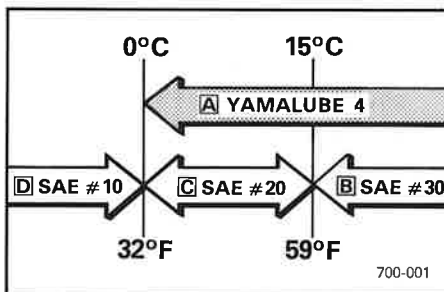
- A YAMALUBE 4-cycle oil
- B SAE #30
- C SAE #20
- D SAE #10

Engine oil quantity:

0.6 L (0.53 Imp qt, 0.63 US qt)



700-014



700-001

NOTE: _____

Recommended engine oil classification:

API Service "SE" or "SF" if not available, "SD".

CAUTION: _____

Be sure no foreign material enters the crankcase.

G-581

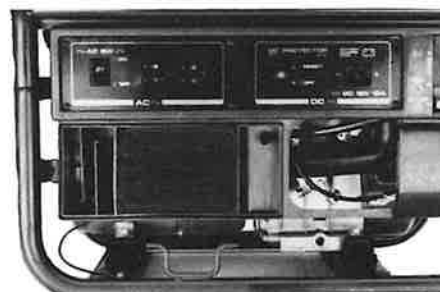
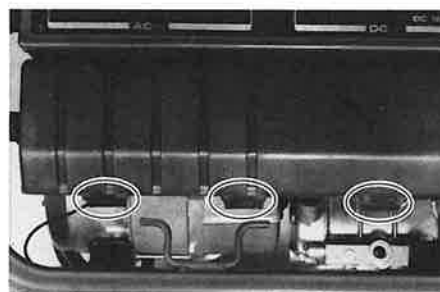
AIR FILTER

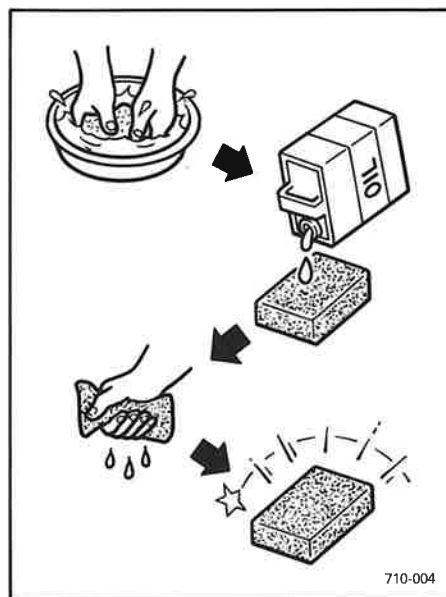
1. Remove the air filter cover and element.
2. Wash the element in solvent and dry.
3. Oil the element and squeeze out excess oil. The element should be wet but not dripping.

Recommended oil:
Foam-air-filter oil
or
SAE #20 motor oil

CAUTION: _____

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





4. Insert the element into the air filter.

NOTE: _____

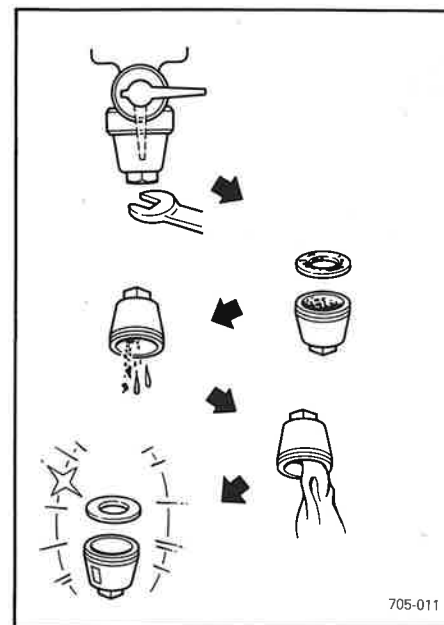
Be sure the element sealing surface matches the air filter so there is no air leak.

CAUTION: _____

The engine should never run without the element; excessive piston and/or cylinder wear may result.

WARNING _____

Never use solvent while smoking or in the vicinity of an open flame.



G-600

FUEL FILTER

WARNING _____

Never use or be near the fuel and solvent while smoking or in the vicinity of an open flame.

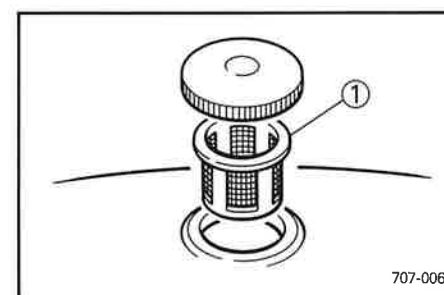
G-620

Fuel tank filter

1. Remove the fuel tank cap and filter.

① Filter

2. Clean the filter with solvent. If damaged, replace.
3. Wipe the filter and insert it.



WARNING _____

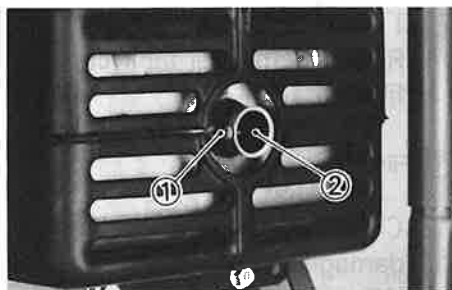
Be sure the tank cap is tightened securely.

G-644

SPARK ARRESTER**⚠ WARNING**

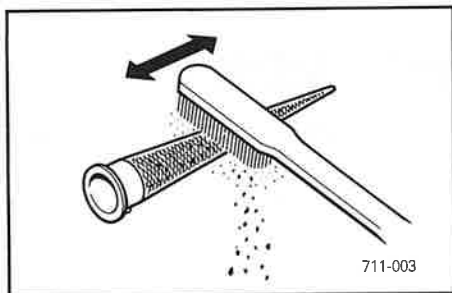
The engine and muffler will be very hot after the engine has been run.

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



1. Remove the screw and spark arrester.

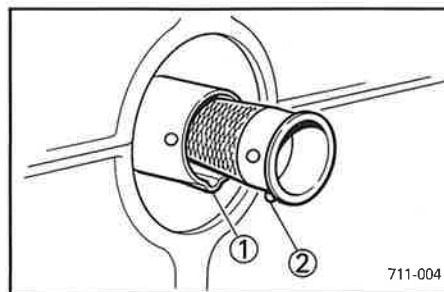
- ① Screw
- ② Spark arrester



2. Remove the carbon deposits on the spark arrester screen using a wire brush.

CAUTION:

Avoid damaging or scratching the arrester screen.



3. Check the arrester screen. Replace it if damaged.
4. Install the spark arrester.

NOTE:

Align the spark arrester projection with the muffler hole.

- ① Projection
- ② Muffler hole

TROUBLESHOOTING

G-651

Engine won't start**1. Fuel systems**

No fuel supplied to combustion chamber.

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

2. Electrical systems

Poor spark

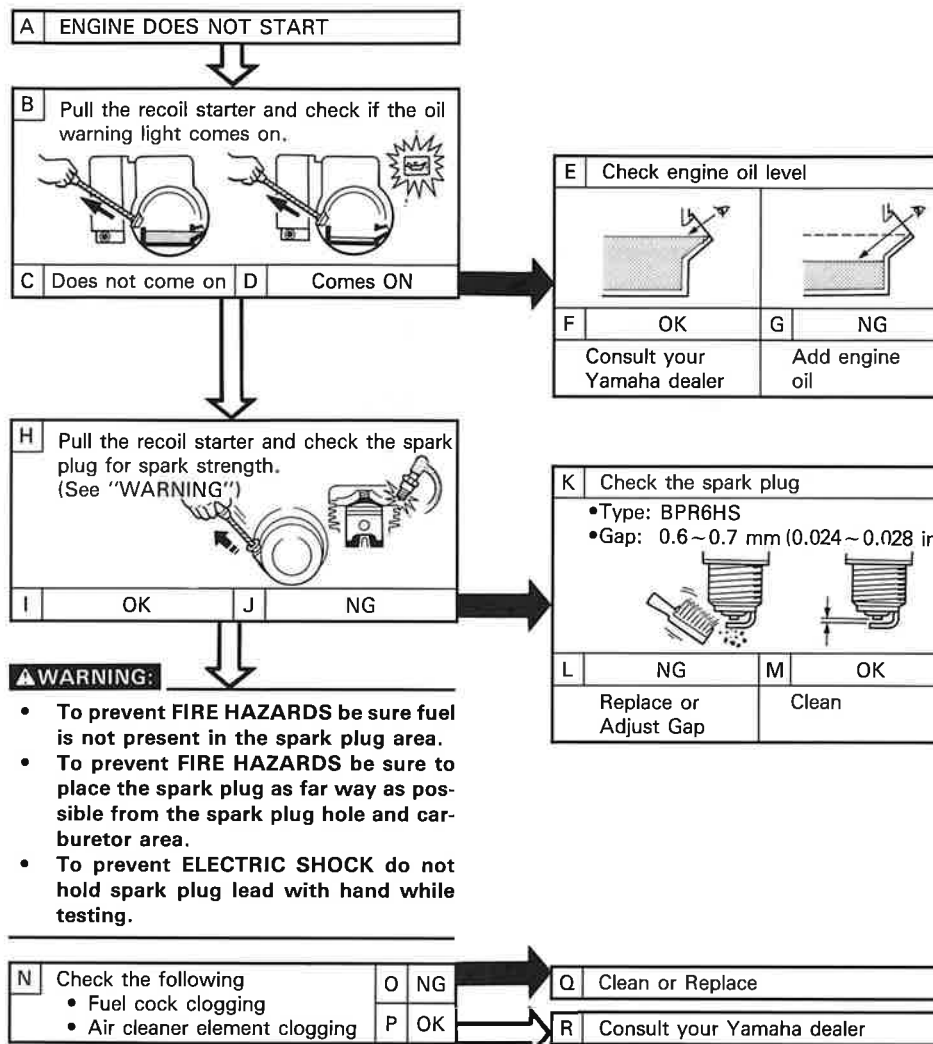
- Spark plug dirty with carbon or wet Remove carbon or wipe spark plug dry
- Faulty ignition system Consult dealer

3. Compression

Insufficient

- Worn out piston and cylinder Consult dealer
- Loose cylinder head nuts Tighten nuts properly
- Damaged gasket Replace gasket

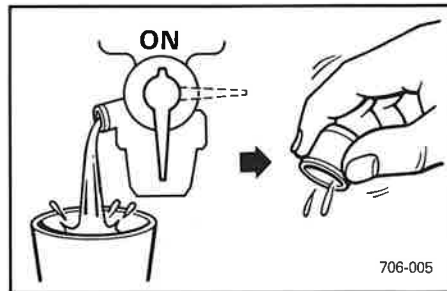
G-670



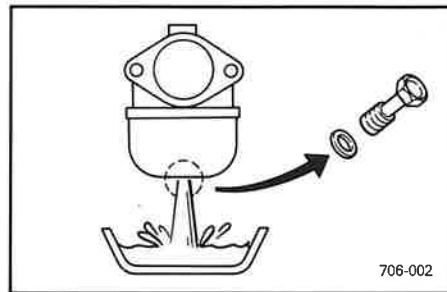
G-700

STORAGE

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



706-005



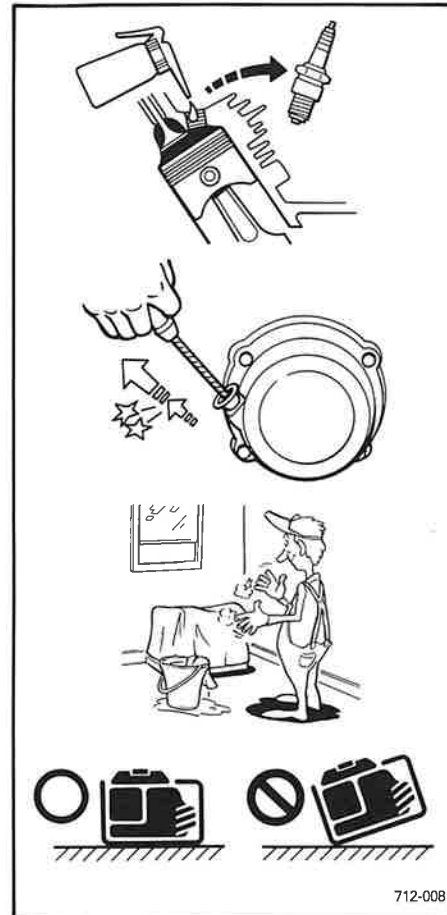
706-002

G-701

DRAIN THE FUEL

Drain the fuel tank, fuel cock, and carburetor float bowl.

Pour a cup of SAE 10W30 or 20W40 motor oil into the tank, shake the tank to coat the inner surfaces thoroughly and drain off the excess oil.



712-008

G-710

ENGINE

1. Remove the spark plug, pour about one tablespoon of SAE 10W30 or 20W40 motor oil into the spark plug hole and reinstall the spark plug. Recoil start the engine by turning over several times (with ignition off) to coat the cylinder walls with oil.
2. Pull the recoil starter until you feel compression. Then stop pulling. (This prevents the cylinder and valves from rusting.)
3. Clean exterior of the generator and apply a rust inhibitor.
4. Store the generator in a dry, well-ventilated place, with the cover placed over it.
5. The generator must remain in a vertical position when stored, carried or operated.

G-730

SPECIFICATIONS

G-731

DIMENSIONS

Model Code Number	Unit	EF1600	EF2500
Overall Length	mm (in)	525 (20.7)	←
Overall Width	mm (in)	415 (16.3)	←
Overall Height	mm (in)	465 (18.3)	←
Dry Weight	kg (lb)	39 (86)	45 (99.2)

G-750

ENGINE

Model Code Number	Unit	EF1600	EF2500
Type		Forced air cooled 4-stroke gasoline OHV	
Cylinder Arrangement		Vertical, 1 Cylinder	
Displacement	cm ³	121	169
Bore × Stroke	mm (in)	60 × 43 (2.36 × 1.69)	67 × 48 (2.64 × 1.89)
Rated Output	PS/rpm	2.8/3,600	4.3/3,600
Operation Hours:	Hr	12.5	8.5
Fuel		Unleaded gasoline	
Fuel Tank Capacity	L (Imp gal, US gal)	12.0 (2.64, 3.17)	
Engine Oil Quantity	L (Imp qt, US qt)	0.6 (0.53, 0.63)	
Ignition System		TCI	
Spark Plug: Typ	NGK	BPR6HS	
Gap	mm (in)	0.6 ~ 0.7 (0.024 ~ 0.028)	

G-770

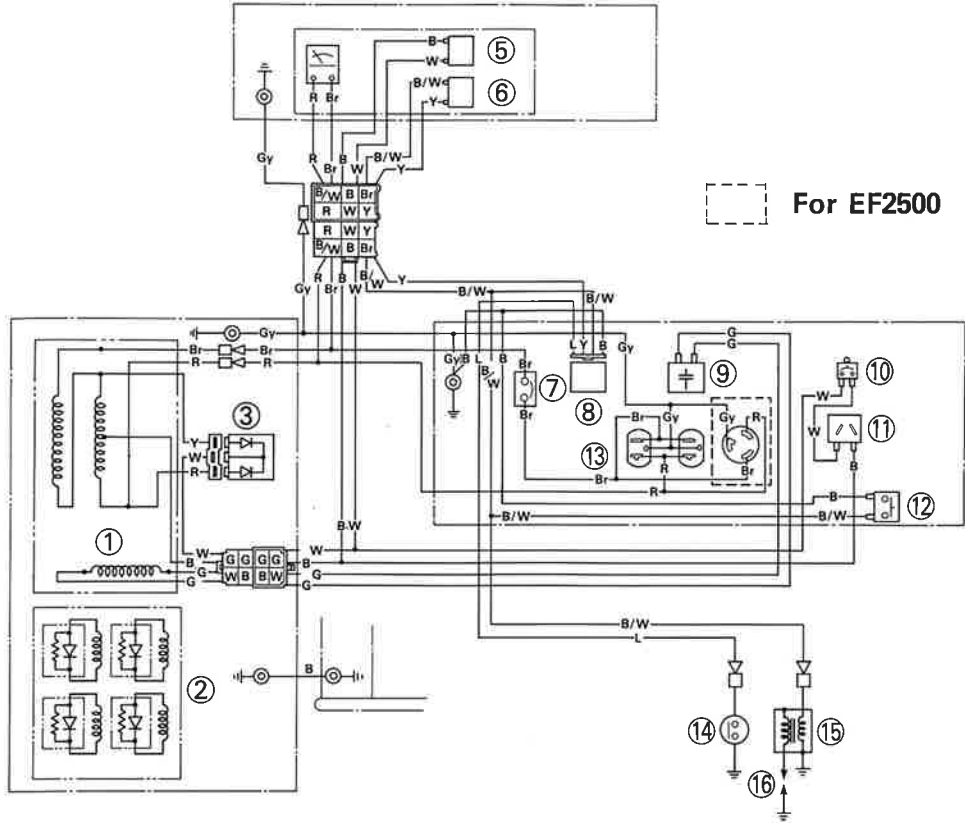
GENERATOR

Model Code Number	Unit	EF1600	EF2500
AC Output			
Rated Voltage	V	120	
Frequency	Hz	60	
AC Current	A	11.7	18.3
Rated Output	KVA	1.4	2.2
Safety Device: Type		Non Fuse Breaker	
DC Output			
Rated Voltage	V	12	
Rated Current	A	10	
Safety Device: Type		DC Protector	

L-800

WIRING DIAGRAM

EF1600/2500



- ① Stator ass'y
- ② Rotor ass'y
- ③ DC rectifier
- ④ Volt meter
- ⑤ Pilot lamp
- ⑥ Oil warning lamp
- ⑦ N.F.B.
- ⑧ Oil warning unit
- ⑨ Condenser
- ⑩ DC protector

- ⑪ DC socket
- ⑫ Stop switch
- ⑬ AC socket
- ⑭ Oil level switch
- ⑮ TCI unit
- ⑯ Spark plug

- B Black
- Br Brown
- G Green
- L Blue
- O Orange
- R Red
- W White
- Y Yellow
- B/R Black/Red
- B/W Black/White
- Br/W Brown/White
- Gy Grey



YAMAHA MOTOR CO.,LTD.

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