

Generator

EF2600A EF4600A EF6600A

LIT-19626-00-84

7UU-28199-10

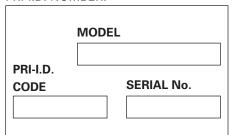
INTRODUCTION

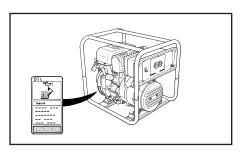
Congratulations on your purchase of your new Yamaha.

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.

PRI-I.D. NUMBER:





7-00101

IDENTIFICATION NUMBER RECORDS

Record your Primary I.D., and serial numbers in the spaces provided, to assist you in ordering spare parts from a Yamaha dealer.

Also record and keep these I.D. numbers in a separate place in case your machine is stolen.

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.

EF2600A/EF4600A/EF6600A
OWNER'S MANUAL
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Printed in Japan.
P/N LIT-19626-00-84



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

▲WARNING

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

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



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

AWARNING

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

CAUTION:

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

NOTE:

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

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

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 EFseries 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 dete of purchase, subject to exclusions noted 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.
- b. Abnormal strain, neglect, or abuse.
- c. Lack of proper maintenance.
- d. 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 coats are my responsibility during the warranty period?
- A. The customer's responsibility includes all coats of normal maintenance service, nonwarranty 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 maintenannce, please contact your dealer for advbice.
- Q. Does the warranty cover incidental coats 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 reguiring 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:
 - Check the operation of the generatorbefore sale.
 - Explain the operation, maintenance, and warranty requirements to your satisfation 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 transfered upon request. The unit has to be inspected and reregistered by an authorized Yamaha genarator dealer for the policy to remain effective.

CUSTOMER SERVICE

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:

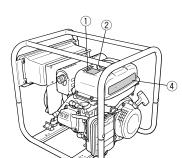
YAMAHA MOTOR CORPORATION U.S.A. CUSTOMER RELATIOS DEPARTMENT P.O. BOX 6555 Cypress, Califfornia 90630

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 shoud move after you have purchased your new generator, please advice 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 mailling address. Mail to:

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

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



L-015

LOCATION OF IMPORTANT LABELS

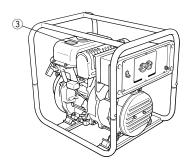
Please read the following labels carefully before operating this machine.

NOTE: _____

Maintain or replace safety and instruction labels, as necessary.

1





(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)

A WARNING

- A AVERTISSEMENT
- READ THE OWNER'S MANUAL AND ALL LABELS BEFORE OPERATING.
- ONLY OPERATE IN WELL-VENTILATED AREA.
 EXHAUST GAS CONTAINS POISONOUS CARBON MONOXIDE.
- CHECK FOR SPILLED FUEL OR FUEL LEAKS.
- STOP ENGINE BEFORE REFUELING.
- DO NOT OPERATE NEAR FLAMMABLE MATERIALS.
- ELECTROCUTION CAN OCCUR IF GENERATOR IS USED IN RAIN, SNOW, OR NEAR WATER, KEEP THIS UNIT DRY AT ALL TIMES.
- LISEZ LE MODE D'EMPLOI ET TOUTES LES ETIQUETTES AVANT DE FAIRE FONCTIONNER LA MACHINE.
- FAITES FONCTIONNER UNIQUEMENT DANS DES LIEUX BIEN AERES.
 LES GAZ D'ECHAPPEMENT CONTIENNENT DU MONOXYDE DE CARBONE.
- VERIFIEZ SI DU CARBURANT A ETE RENVERSE DU S'IL FUIT.
- ARRETEZ LE MOTEUR AVANT DE FAIRE LE PLEIN DE CARBURANT.
- N'UTILISEZ PAS A PROXIMITE DE MATERIAUX INFLAMMABLES.
- IL Y A RISQUE D'ELECTROCUTION SI LE GENERATEUR FONCTIONNE SOUS LA PLUIE, DANS LA NEIGE, OU PRES DE L'EAU. GARDEZ LA MACHINE AU SEC EN TOUTES CIRCONSTANCES.

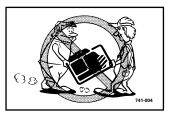
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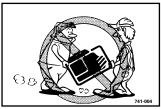
(4)

IMPORTANT ENGINE INFORMATION		DISPLACEMENT:	* * * cm²	VALVE LASH (mm)	IN: *.**~*.**	EX: *.**~*.**
ENGINE FAMILY: *********	YAMAHA	IGNITION TIMING &	IDLE MIXTURE	NO OTHER ADJUSTN	MENTS NEEDED.	
REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.		IDLE SPEED:	**** rp	om AT NO LOAD		
THIS ENGINE MEETS ****-**** CALIFORNIA EMISSION REGULATIONS FOR SMALL OFF-ROAD THIS ENGINE CONFORMS TO **** *********) U.S.EPA REGULATIONS FOR SMALL NONROAD		FUEL: THIS ENGINE	IS CERTIFIED TO O	PERATE ON UNLEADER	GASOLINE.	
YAMAHA MOTOR CO. LTD	***-2179R-**	ENGINE OIL:	SAE 10W-30	TYPE	SE	

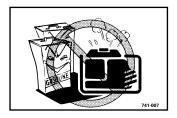












*G-380

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.

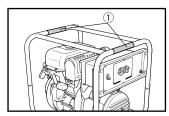


 Keep the machine at least 1 m (3 ft) from buildings or other equipment, or the engine may overheat.





• Avoid operating the engine with a dust cover.



 When carrying the machine, be sure to hold its carrying handles.





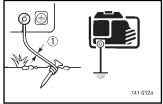
G-384

ELECTRIC SHOCK PREVENTION

• Never operate the engine in rain or snow.



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



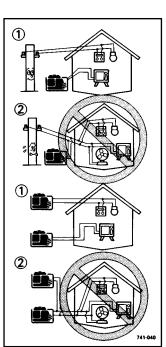
• Be sure to ground (earth) the generator.

NOTE:

Use ground (earth) lead of sufficient current capacity.

1 Lead diameter

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



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

G-440

CONNECTION

AWARNING

Before the generator can be connected to a building's electrical system, a licensed electrician must install an isolation (transfer) switch in the building's main fuse box. The switch is the connection point for generator power and allows selection of generator or main line power to the building. This will prevent the generator from charging the main power line (backfeeding) when the main power supply has failed or has been turned off for line repair. Backfeeding can electrocute or injure line maintenance personnel. Also, generator and building electrical system damage can occur when normal operating power returns if unit is used without an isolation switch.

G-387

EXTENSION CORD NOTES

- When using an extension cord, its total length should not exceed
 - 60 meters for cross section of 1.5 mm square and
 - 100 meters for cross section of 2.5 mm square.
- This extension cord should be protected by a tough flexible rubber sheath (IEC 245) or the equivalent to withstand mechanical stresses.

EF2600A

(12)

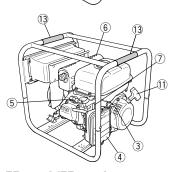
G-050

CONTROL FUNCTION

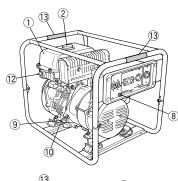
G-051

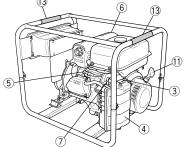
DESCRIPTION

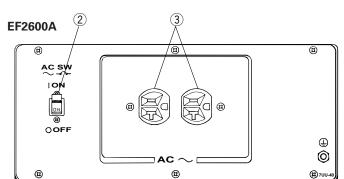
- ① Fuel tank
- ② Fuel tank cap
- 3 Fuel cock
- (4) Air filter cover
- ⑤ Spark plug
- 6 Muffler
- (7) Choke lever
- (8) Ground (Earth) terminal
- 9 Oil filler cap
- 10 Oil drain plug
- (1) Recoil starter
- (12) Engine switch
- (3) Carrying handles (shaded)



EF4600A/EF6600A

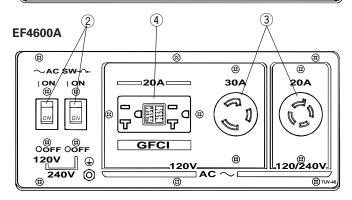


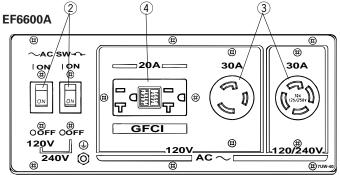


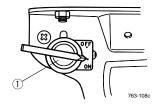


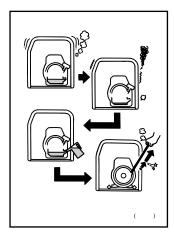
CONTROL BOX

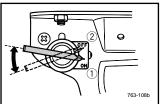
- 1 Engine switch
- 2 AC switch (N.F.B.)
- 3 AC socket
- (4) G.F.C.I. socket

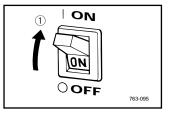


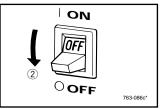












OIL WARNING SYSTEM

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

NOTE:

If the engine stalls or does not start, check the oil level. If the oil is insufficient, add oil and restart.

G-20604

ENGINE SWITCH

The engine switch controls the ignition system.

① "ON":

Ignition circuit is switched on.

The engine can be started.

② "OFF":

Ignition circuit is switched off.

The engine will not run.

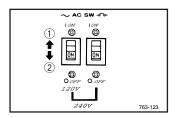
AC SWITCH (N.F.B.) (for EF2600A)

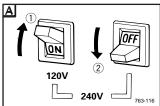
The AC switch (Non-Fuse Breaker) turns off automatically when the load exceeds the generator rated output.

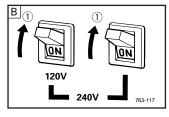
- ① I "ON"
- ② O "OFF"

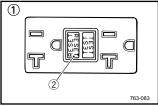
CAUTION:

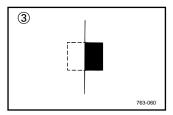
Reduce the load to the specified generator rated output if the AC switch (N.F.B.) turns off. If it turns off again, consult a Yamaha dealer.











G25004

AC SWITCH (N.F.B.) (for EF4600A/EF6600A)

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

- ① I "ON"
- A Supplies AC 120V

B Supplies AC120V and 240V

CAUTION:

Reduce the load to within specified generator rated output if the AC switch (N.F.B.) turns off. If it turns off again, consult a Yamaha dealer.

G-19302

G.F.C.I. SOCKET

(for EF4600A/EF6600A)

The G.F.C.I. (Ground Fault Circuit Interrupter) ① shuts off power to the protected sockets if a ground fault (electrical leak) is defected.

If the reset button ② pops out ③, the equipment plugged into the socket may be faulty. If this happens, check the equipment carefully. If the equipment appears to be in good condition, press the reset button firmly until a click is heard. This will restore power. If the reset button pops out again, unplug the equipment immediately. Have the equipment inspected and repaired by a qualified repairperson before attempting to use it again.

▲WARNING

TO REDUCE THE CHANCE OF ELECTRICAL SHOCK:

- Do not attempt to operate equipment if the ground fault circuit interrupter reset button pops out repeatedly during use.
- Test the ground fault circuit interrupter during the pre-operation checks according to the maintenance instructions on page 24.
- Remember that only sockets labeled "GFCI" have ground fault circuit interrupter protection.

PRE-OPERATION CHECK

NOTE:

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



AWARNING

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

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

G-30104

FUEL

Make sure there is sufficient fuel in the tank.

Recommended fuel:

Unleaded gasoline

Fuel tank capacity:

Total:

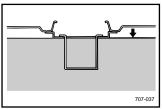
EF2600A

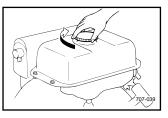
4.5 L (0.99 Imp gal, 1.19 US gal)

EF4600A/EF6600A

6.7 L (1.47 Imp gal, 1.77 US gal)



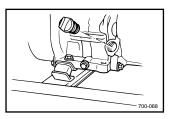


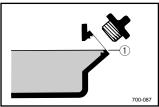


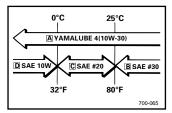
Your Yamaha engine has been designed to use regular unleaded gasoline with a pump octane number ((R + M)/2) of 86 or higher, or research octane number of 91 or higher.

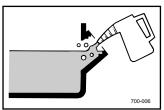
▲WARNING

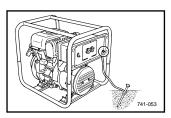
- Fuel is highly flammable and poisonous. Check "SAFETY INFORMATION"
 - (See page 4) carefully before refueling.
- Do not fill above the top of the fuel filter or it may overflow when the fuel heats up later and expands.
- Wipe up any spilled fuel immediately.
- After refueling, make sure the tank cap is tightened securely.











ENGINE OIL

Make sure the engine oil is at the upper level of the oil filler hole.

Add oil as necessary.

1 Upper level

Recommended oil:

- A YAMALUBE 4 (10W-30) or SAE 10W-30 type SE motor oil
- B SAE #30
- C SAE #20
- D SAE 10W

Engine oil quantity:

EF2600A

0.6 L (0.53 Imp qt, 0.63 US qt)

EF4600A/EF6600A

1.1 L (0.97 Imp qt, 1.16 US qt)

NOTE:

Recommended engine oil classification:

API Service "SE" or "SF".

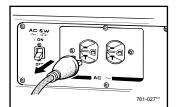
CAUTION:

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

G-369

GROUND (Earth)

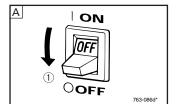
Make sure to ground (earth) the generator. Check "SAFETY INFORMATION" on page 5.



OPERATION



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

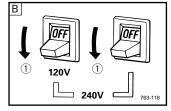


G-4100

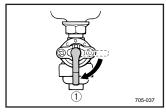
STARTING THE ENGINE

NOTE: _____

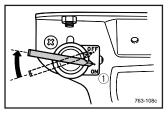
- Before starting the engine, do not connect the electric apparatus.
- Turn the AC switch (N.F.B.) to "OFF" position.



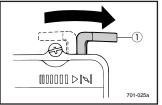
- ① O "OFF"
- A AC switch (N.F.B) for EF2600A
- B AC switch (N.F.B) for EF4600A/EF6600A
- 1. Turn the fuel cock lever to the "ON" position.
- ① "ON"



- 2. Turn the engine switch to the "ON" position.
- ① "ON"

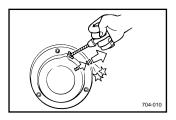


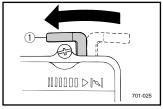
- 3. Turn the choke lever to the "|\" position.
- (1) Choke lever



NOTE: ___

The choke is not required to start a warm engine. Turn the choke lever to the operating position.





- 4. Pull slowly on the recoil starter until it is engaged, then pull it briskly.
- 5. After the engine starts, warm up the engine until the engine does not stop when the choke lever is returned to the operating position.
- Turn the choke lever back to the operating position.
- 1 Operating position

G-43101

APPLICATION RANGE

AC	*	***************************************	Ē
Power factor	1	0.8 ~ 0.95	0.4 ~ 0.75 (Efficiency 0.85)
EF2600A	~ 2,300W	~ 1,840W	~ 780W
EF4600A	~ 4,000W	~ 3,200W	~ 1.360W
EF6600A	~ 5,700W	~ 4,560W	~ 1,940W

NOTE: _

- "~" means below.
- Application wattage indicates when each apparatus is used by itself.

C	Λ	П	П	П	0	N	١.

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

NOTE:

Some precision equipment is voltage sensitive and may require a more uniform voltage supply than portable generators provide. Examples include some medical equipment, personal computers, and some inverters that sense peak and RMS voltage values. Consult the precision-equipment vendor before relying on any portable generator to provide power to such equipment.

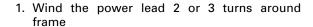
CONNECTION

G-4490

Alternating Current (AC)

CAUTION:

- Be sure all electric apparatuses including the lines and plug connections are in good condition before connection to the generator.
- Be sure the electric apparatus is turned off before plugging it in.
- Be sure the total load is within generator rated output.
- Be sure the socket load current is within socket rated current.

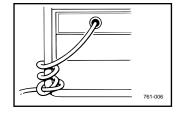


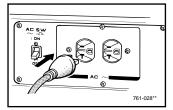
- 2. Start the engine.
- 3. Plug into AC socket.
- 4. Turn the AC switch to the "ON" position and turn on the electric apparatus.
- ① I "ON"
- A for EF2600A
- B for EF4600A/EF6600A AC 120V can be used.
- © for EF4600A/EF6600A AC 120V and 240V can be used.

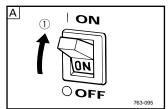
CAUTION:

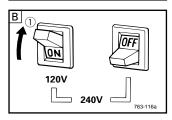
Reduce the load to the specified generator rated output if the AC switch turns off.

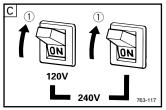
If it turns off again, consult a Yamaha dealer.

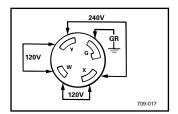








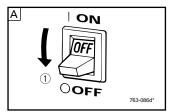




NOTE: _____

for EF4600A/EF6600A

The 4-blade plug socket can supply both 120V and 240V power sources.

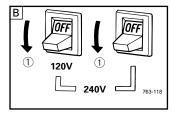


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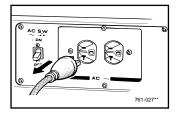
STOPPING THE ENGINE

NOTE: _____

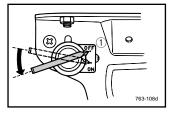
- Turn off the electric apparatus.
- Turn the AC switch (N.F.B.) to the "OFF" position.
- A for EF2600A
- B for EF4600A/EF6600A



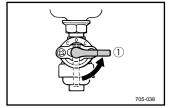
1. Disconnect the electric apparatus.



2. Turn the engine switch to the "OFF" position.



① "OFF"



- 3. Turn the fuel cock lever to "OFF".
- ① "OFF"

PERIODIC MAINTENANCE

G-508

MAINTENANCE CHART

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

▲WARNING

Stop the engine before starting maintenance work.

			Pre-Ope-	Initial	Every		
No.	ltem	Remarks	ration check (daily)	1 month or 20 Hr	3 months or 50 Hr	6 months or 100 Hr	12 months or 300 Hr
1.	** Špark Plug	Check condition. Adjust gap and clean. Replace if necessary.			•		
2.*	** Valve Clearance	Check and adjust when engine is cold.					•
3.*	črankcase breather system	Check breather hose for cracks or damage. Replace if necessary.					•
4.*	** Idle speed	Check and adjust engine idle speed.					•
	**	Check for leakage. Retighten or *replace gasket if necessary.	•				
5.	Exhaust System	Check muffler screen and spark arrester. Clean/ replace if necessary.					•
6.	Engine Oil	Check oil level	•				
0.	Engine Oil	Replace		•		•	
7.	** Air Filter	Clean. Replace if necessary.			•		

^{* :} It is recommended that these items be serviced by a Yamaha dealer.

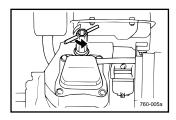
^{** :} Related to emission control system.

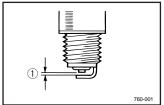
			Pre-Ope-	Initial		Every	
No.	ltem	Remarks	ration check	1	3	6	12
			(daily)	month or 20 Hr	months or 50 Hr	months or 100 Hr	months or 300 Hr
8.	Fuel Filter	Clean fuel cock and fuel tank filter. Replace if necessary.				•	
9.	Fuel Line	Check fuel hose for crack or da- mage. *Replace if necessary.	•				
10.	** Choke lever	Check choke operation.	•				
11.	Cooling System	Check for fan damage.					•
12.	Starting System	Check recoil starter operation.	•				
13.*	** Decarbonization	More frequently if necessary.					•
14.	G.F.C.I. socket	Check operation. *Repair if necessary. (for EF4600A/EF6600A)	•				
15.*	Fittings/ Fasteners	Check all fittings and fasteners. Correct if necessary.				•	

^{* :} It is recommended that these items be serviced by a Yamaha dealer.
** : Related to emission control system.

CAUTION:

Use only Yamaha specified genuine parts for replacement. Ask an authorized Yamaha dealer for further attention.





SPARK PLUG INSPECTION

You should periodically remove and inspect the spark plug.

 Check for discoloration and remove the carbon.

Standard electrode color:

Tan Color

2. Check the spark plug type and gap.

Standard Spark Plug: BPR4ES (NGK) 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 m•kg, 14 ft•lb)

G-512

CARBURETOR ADJUSTMENT

The carburetor is a vital part of the engine. Adjusting should be left to a Yamaha dealer with the professional knowledge, specialized data, and equipment to do so properly.

ENGINE OIL REPLACEMENT

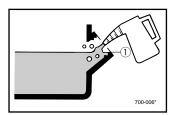
- Place the machine on a level surface and warm up the engine for several minutes.
 - Then stop the engine.
- 2. Remove the oil filler cap.
- Place an oil pan under the engine. Remove the oil drain plug so that the oil can be completely drained.
- Check the drain plug, gasket, oil filler cap and O-ring.

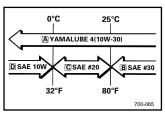
If damaged, replace.

- 1 Oil drain plug
- ② Gasket
- 3 O-ring
- 5. Reinstall the oil drain plug.

Drain Plug Torque:

17 Nm (1.7 m•kg, 12 ft•lb)





- 6. Add engine oil to the upper level.
- 1 Upper level

Recommended oil:

- A YAMALUBE 4 (10W-30) or SAE 10W-30 type SE motor oil
- B SAE #30
- C SAE #20
- D SAE 10W

Engine oil quantity:

EF2600A

0.6 L (0.53 Imp qt, 0.63 US qt)

EF4600A/EF6600A

1.1 L (0.97 Imp qt, 1.16 US qt)

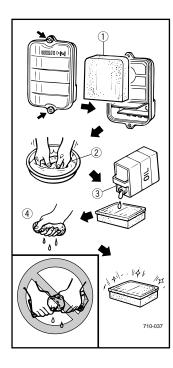
NOTE: _

Recommended engine oil classification:

API Service "SE" or "SF".

CAUTION:

Be sure no foreign material enters the crankcase.



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:

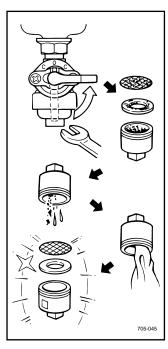
Be sure the element sealing surface matches the air filter so there is no air leak.

CAUTION:

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

▲WARNING

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



FUEL COCK

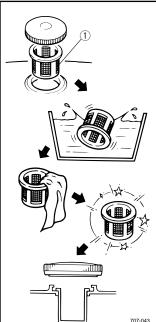
AWARNING

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

- 1. Stop the engine:
- 2. Turn the fuel cock lever to "OFF".
- 3. Remove the fuel cock cup and gasket.
- 4. Clean the cup with solvent and wipe it off.
- 5. Check the gasket. Replace it if damaged.
- 6. Reinstall the gasket and fuel cock cup.

AWARNING

Be sure the fuel cock cup is tightened securely.



G-620

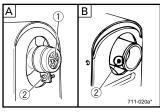
FUEL TANK FILTER

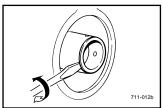
- 1. Remove the fuel tank cap and filter.
- 1) Filter
- 2. Clean the filter with solvent. If damaged, replace.
- 3. Wipe the filter and insert it.

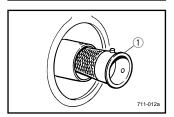
▲WARNING

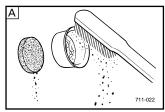
Be sure the tank cap is tightened securely.













G-695*

MUFFLER SCREEN AND SPARK ARRESTER

▲WARNING

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

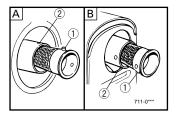
Avoid touching the engine and muffler while they are still hot with any part of your body or clothing during inspection or repair.

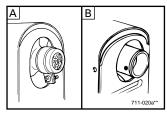
- 1. Remove the muffler screen.
- 1) Muffler screen (only for EF2600A)
- ② Screw
- A for EF2600A
- B for EF4600A/EF6600A
 - 2. Use a flathead screw driver to pry the spark arrester out from the muffler.
- 3. Remove the spark arrester.
- (1) Spark arrester
- 4. Remove the carbon deposits on the muffler screen and spark arrester using a wire brush.
- A only for EF2600A
- B for EF2600A/EF4600A/EF6600A

CAUTION:

When cleaning, use the wire brush lightly to avoid damaging or scratching of the muffler screen and spark arrester.

Check the muffler screen and spark arrester. Replace them if damaged.



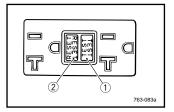


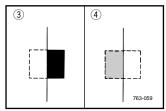
6. Install the spark arrester.

NOTE: _____

Align the spark arrester projection with the hole in the muffler pipe.

- 1 Projection
- ② Hole
- A for EF2600A
- B for EF4600A/EF6600A
- 7. Install the muffler screen. (only for EF2600A)





G-69601

G.F.C.I. SOCKET TEST (for EF4600A/EF6600A)

- 1. Start the engine.
- 2. Turn the AC switch (N.F.B.) to the "ON" position.
- 3. Press the test button ①, then check the position of the reset button ②.

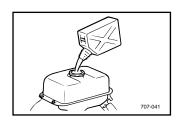
G.F.C.I. Reset Button Position after Test	G.F.C.I. Socket Operation
Pop Out ③	Correct
Stay In ④	Incorrect

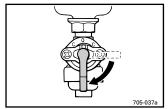
If G.F.C.I. operation is correct, push in the reset button.

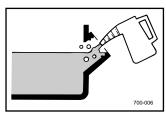
If the G.F.C.I. operates incorrectly, consult a Yamaha dealer.

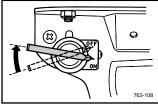
▲WARNING

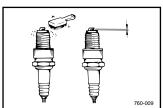
Do not operate the generator with a faulty G.F.C.I. circuit. Electric shock could occur. Have the generator repaired by a qualified mechanic.











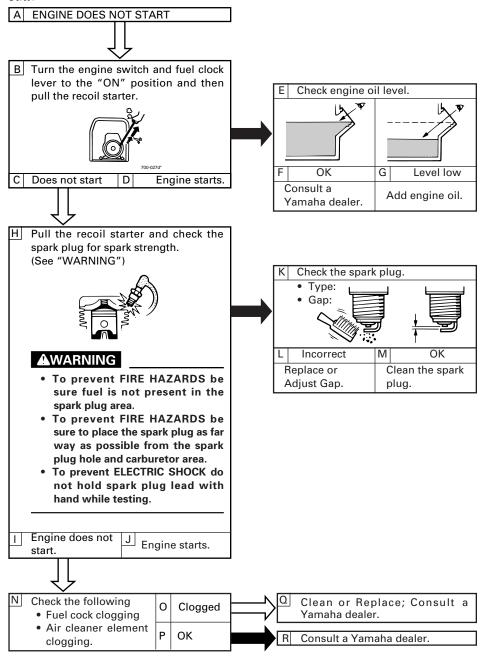
*G-650

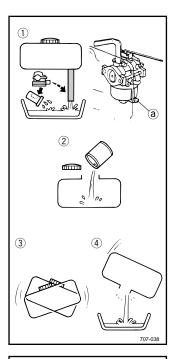
TROUBLESHOOTING

G-65102

Engine won't start

- Fuel systems
 No fuel supplied to combustion chamber.
- O No fuel in tank Supply fuel.
- O Clogged fuel line Clean fuel line.
- Foreign matter in fuel cock Clean fuel cock.
- Clogged carburetor Clean carburetor.
- 2. Engine oil system Insufficient
- Oil level is low Add engine oil.
- Electrical systems
- Engine switch to "ON".
 Poor spark
- Spark plug dirty with carbon or wet Remove carbon or wipe spark plug dry.
- Faulty ignition system Consult dealer.
- 4. Compression Insufficient
- Worn out piston and cylinder Consult dealer.
- Loose cylinder head nuts Tighten nuts properly.
- Damaged gasket Replace gasket.





STORAGE

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

G-70102

DRAIN THE FUEL

- Drain the fuel tank, fuel cock, and carburetor float bowl:
- (a) Carburetor drain plug
- Pour a cup of SAE 10W30 or 20W40 motor oil into the tank.
- Shake the tank to coat the inner surfaces thoroughly.
- 4. Drain off the excess oil.



G-710

ENGINE

- Remove the spark plug, pour about one tablespoon of SAE 10W30 or 20W40 motor oil into 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.
- Pull the recoil starter until you feel compression. Then stop pulling. (This prevents the cylinder and valves from rusting).
- 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.

EXHAUST EMISSION CONTROL SYSTEM AND COMPONENTS

Item	Acronym
• CARB. ASSY., LH. & JT.,	CARB (Carburetor)
CARBURETOR2	
• T.C.I. MAGNETO ASSY. &	El (Electronic Ignition)
PLUG, SPARK	_
CRANKCASE1 & HEAD,	PCV (Positive Crankcase
CYLINDER1	Ventilation)
AIR FILTER ASSY	ACL (Air Cleaner)
 MUFF., 2, CAP, NET, WIRE2 & 	
ARRESTER, SPARK	

The above items and the corresponding acronyms are provided in accordance with U.S. EPA REGULATIONS FOR SMALL NONROAD ENGINES and the CALIFORNIA REGULATIONS FOR 1995 AND LATER UTILITY AND LAWN AND GARDEN EQUIPMENT ENGINES.

The acronyms conform to the latest version of the SAE's recommended practice document J1930, "Diagnostic Acronyms, Terms, and Definitions For Electrical/Electronic System".

It is recommended that these items be serviced by a Yamaha dealer.

SPECIFICATIONS

G-7310

DIMENSIONS

	Unit	EF2600A	EF4600A	EF6600A
Overall Length	mm (in)	510 (20.1)	670 (26.4)	670 (26.4)
Overall Width	mm (in)	415 (16.3)	510 (20.1)	510 (20.1)
Overall Height	mm (in)	466 (18.3)	531 (20.9)	531 (20.9)
Dry Weight	kg (lb)	39 (86.0)	66 (145.5)	76 (167.5)

G-750

ENGINE

	Unit	EF2600A	EF4600A	EF6600A		
	Offic	=:=====================================				
Type		Forced air c	ooled 4-stroke ga	asoline OHV		
Cylinder Arrangement		lı .	nclined, 1 cylinde	er		
Displacement	cm³	171	301	357		
Bore ¥ Stroke	mm	66.0×50.0	78.0 × 63.0	85.0 × 63.0		
	(in)	(2.60 × 1.97)	(3.07×2.48)	(3.35×2.48)		
Rated Output	kW(HP)/r/min	3.3 (4.4)/3,600	5.8 (7.8)/3,600	7.1 (9.5)/3,600		
Operation Hours	Hr	3.6 2.7 2.2				
Fuel		U	Jnleaded gasolin	е		
Fuel Tank Capacity	L (Imp gal, US gal)	4.5 (0.99,1.19)	6.7 (1.47,1.77)	6.7 (1.47,1.77)		
Engine Oil Quantity	L (Imp qt, US qt)	0.6 (0.53, 0.63)	1.1 (0.97,1.16)	1.1 (0.97,1.16)		
Ignition System		TCI				
Spark Plug: Type	mana (in)	BPR4ES (NGK)				
Gap	mm (in)	0.7~0.8 (0.028~0.031)				
Noise Level*	dB (A)	68	73	76		

^{* :} Measured at rated operation from 7 m (23 ft) distance.

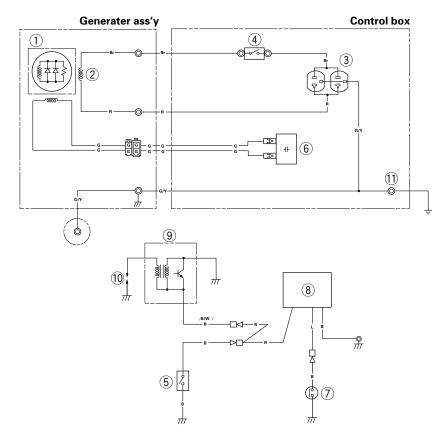
G-770

GENERATOR

	Unit	EF2600A	EF4600A	EF6600A
AC Output				
Rated Voltage	V	120	240/120	240/120
Rated frequency	Hz	60	60	60
Rated current	А	19.2	16.7/33.3	23.8/47.5
Rated Output	kVA	2.3	4.0	5.7
Safty Device: Type			NFB	

WIRING DIAGRAM

EF2600A



- 1) Rotor assembly
- 2 Stator assembly
- 3 AC receptacle
- 4 AC switch (N.F.B.)
- 5 Engine switch
- **6** Condenser
- 7 Oil level switch
- ® Oil warning unit
- 9 T.C.I. unit
- 10 Spark plug
- (1) Ground (earth) terminal

Color code

B Black

Br Brown

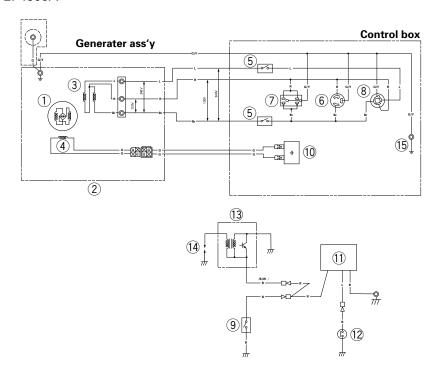
G Green L Blue

R Red

G/Y Green/Yellow

B/W Black/White

EF4600A

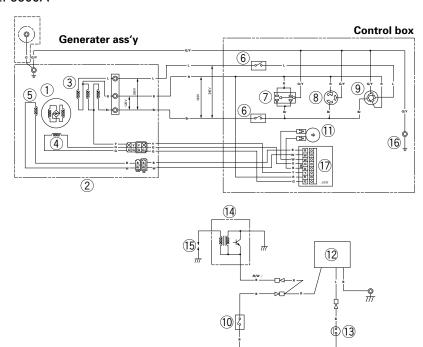


- 1) Rotor assembly
- 2 Stator assembly
- 3 Main coil
- 4 Sub coil
- (5) N.F.B
- ⑥ AC receptacle
- 7 GFCI receptacle
- 8 AC receptacle
- 9 Engine switch
- (1) Condenser
- 1 Oil warning unit
- (12) Oil level switch
- (13) TCI unit
- (4) Spark plug
- (15) Ground(earth)terminal

Color code

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

EF6600A



- 1) Rotor assembly
- ② Stator assembly
- 3 Main coil
- 4 Sub coil
- (5) Exciter coil
- ⑥ N.F.B
- 7 GFCI receptacle
- ® AC receptacle
- AC receptacle
- 1 Engine switch
- (1) Condenser
- (1) Oil warning unit
- (13) Oil level switch
- (14) TCI unit
- (15) Spark plug
- (16) Ground(earth)terminal
- (17) AVR

Color code

B Black Br Brown

G Green

GU Gray L Blue

R Red W White

W White B/W Black/White

G/Y Green/Yellow

Y Yellow

