




# Generator

## OWNER'S MANUAL

 Read this manual carefully before operating this machine.

# EF5200DE EF5200D

LIT-19626-02-01  
7C5-F8199-11

## **WARNING**

**The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.**

YAMAHA

LIT-CALIF-65-01



**Read this manual carefully before operating this machine. This manual should stay with this machine if it is sold.**

## 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.

**EF5200DE/EF5200D  
OWNER'S MANUAL**

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1st Edition, October 2013**

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**Printed in China  
P/N LIT-19626-02-01**

## IMPORTANT MANUAL INFORMATION

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



**This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.**



### **WARNING**

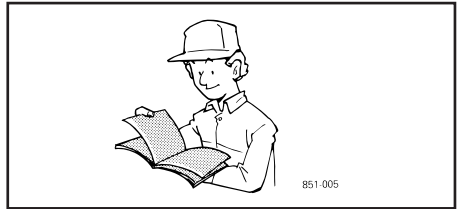
**A WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.**

### **NOTICE**

**A NOTICE indicates special precautions that must be taken to avoid damage to the machine or other property.**

### **TIP**

**A TIP provides key information to make procedures easier or clearer.**



### **WARNING**

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

### **TIP**

- Yamaha continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your 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.

\* Product and specifications are subject to change without notice.

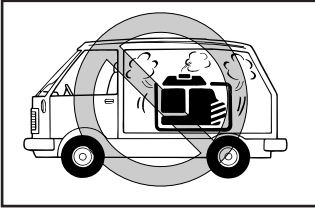


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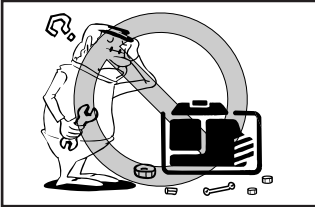
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## SAFETY INFORMATION

- This generator is not designed for on-board use. Do not use it while installed on the vehicle.



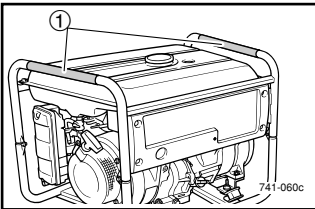
- Do not modify the generator or use it with its parts removed.



- Do not allow children to operate the generator.

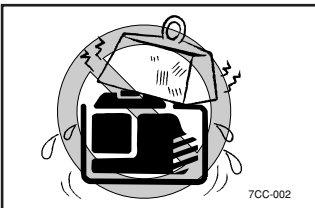


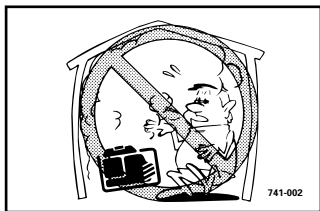
- Be sure to carry the generator only by its carrying handle(s).



- ① Carrying handle(s) (shaded)

- Do not place any obstacles on the generator.





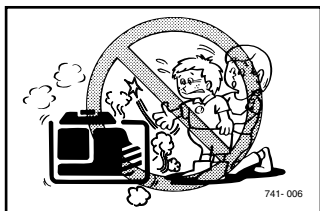
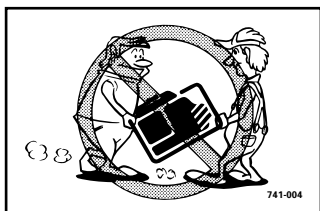
### **Exhaust fumes are poisonous**

- Using a generator indoors **CAN KILL YOU IN MINUTES**. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.
- **NEVER** use inside a home or garage, **EVEN IF** doors and windows are open.
- Only use **OUTSIDE** and far away from windows, doors, and vents.



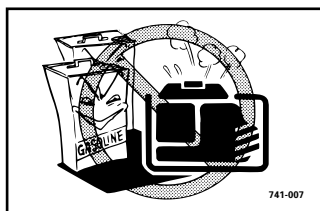
### **Fuel is highly flammable and poisonous**

- 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.
- Do not leave the generator inside the vehicle or in the trunk.
- 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 generator, be sure it is kept upright. If it tilts, fuel may leak from the carburetor or fuel tank.

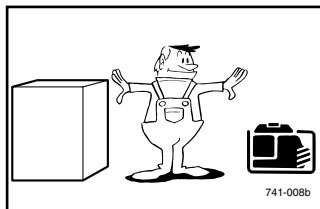


### **Engine and muffler may be hot**

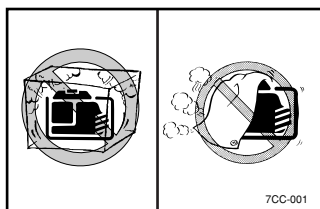
- Place the generator in a place where pedestrians or children are not likely to touch the generator.



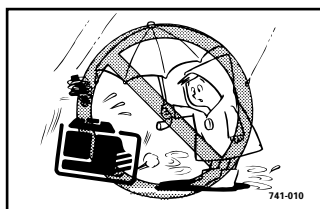
- Avoid placing any flammable materials near the exhaust outlet during operation.



- In order to prevent overheating, ensure adequate airflow by keeping the machine at least 1 m (3 ft) from objects or other equipment.

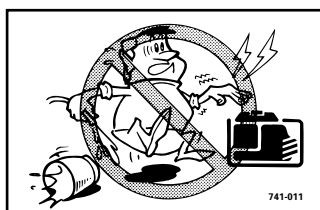


- Do not operate the engine with a dust cover or other objects covering it.
- When covering the generator, be sure to do so only after the engine and muffler have completely cooled down.

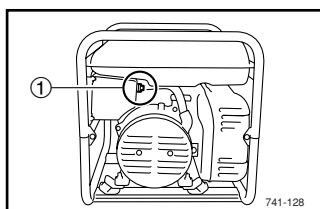


### Electric shock prevention

- Never operate the engine in rain or snow.

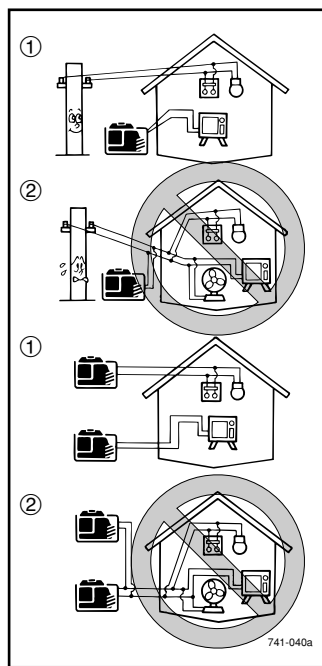


- Never touch the generator with wet hands or electrical shock will occur.



- Connect the Ground (earth) terminal to a ground source. In order to prevent electrical shock, the generator must be grounded when using an electrical device with a ground plug.

① Ground (earth) terminal



## Connection notes

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

① Correct

② Incorrect

## Connection



### WARNING

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.

## Extension cord notes

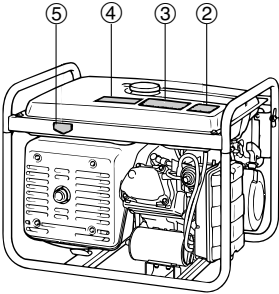
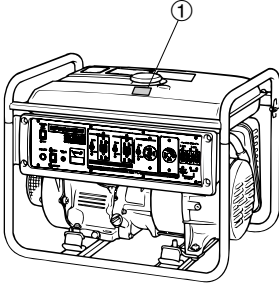
Extension cords should be protected by a tough flexible rubber sheath (IEC 245) or the equivalent to withstand mechanical stresses.

# LOCATION OF IMPORTANT LABELS

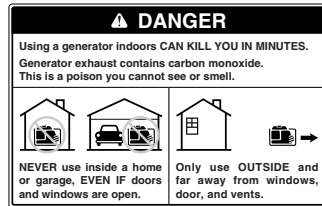
Please read the following labels carefully before operating this generator.

## TIP

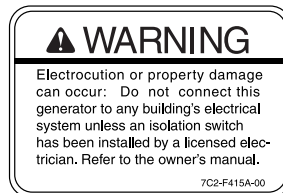
Maintain or replace safety and instruction labels, as necessary.



①



②



③

⚠ WARNING	⚠ AVERTISSEMENT
<ul style="list-style-type: none"> <li>Read the owner's manual and all labels before operating.</li> <li>Only operate in well-ventilated areas.</li> <li>Exhaust gas contains poisonous carbon monoxide.</li> <li>Check for spilled fuel or fuel leaks.</li> <li>Stop engine before refueling.</li> <li>Do not operate near flammable materials.</li> <li>Electrocution can occur if generator is used in rain, snow, or near water. Keep this unit dry at all times.</li> <li>When operating the generator, Never place a partition or other barrier around the generator. Do not cover the generator with a box. Do not place any objects on the generator.</li> </ul>	<ul style="list-style-type: none"> <li>Lisez le mode d'emploi et toutes les étiquettes avant de faire fonctionner la machine.</li> <li>Faites fonctionner uniquement dans des lieux bien aérés.</li> <li>Les gaz d'échappement contiennent du monoxyde de carbone.</li> <li>Vérifiez si du carburant s'est renversé ou s'il fuit.</li> <li>Arrêtez le moteur avant de faire le plein de carburant.</li> <li>N'utilisez pas à proximité de matériaux inflammables.</li> <li>Il y a risque d'électrocution si le générateur fonctionne sous la pluie, dans la neige, ou près de l'eau. Gardez la machine au sec en toutes circonstances.</li> <li>Quand la génératrice est en marche, Ne jamais entourer la génératrice de cloisons ou d'écrans. Ne jamais recouvrir la génératrice d'une boîte. Ne jamais disposer d'objets sur la génératrice.</li> </ul>

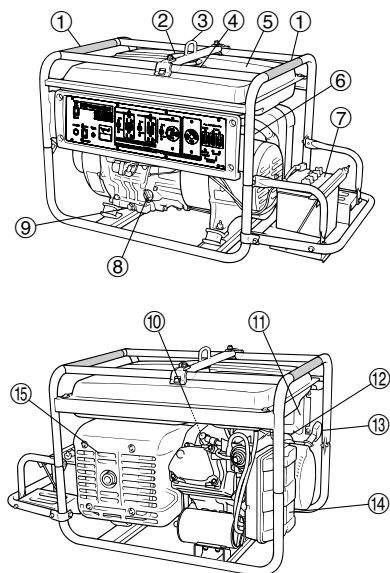
④

EMISSION CONTROL INFORMATION YAMAHA MOTOR CO., LTD.	The air index of this engine is 3 (California only)
<p>This engine meets **** California exhaust and evaporative emission regulations for small off-road engines.</p> <p>THIS ENGINE MEETS U.S. EPA EXH / EVP REGS FOR ****.</p> <p>EMISSION COMPLIANCE PERIOD: **** HOURS</p> <p>EF: **** cc</p> <p>DISPLACEMENT: **** cc</p> <p>EVAP F CARB: **** cc</p> <p>EMISSION CONTROL SYSTEM: **</p> <p>EVAP F EPA: **** cc</p> <p>This engine is certified to operate on unleaded gasoline.</p> <p>ENGINE OIL: SAE **** TYPE: ** No other adjustments needed.</p>	<p>0 2 4 6 8 10</p> <p>MOST CLEAN LEAST CLEAN</p> <p>Note: The lower the air index, the less the pollution.</p> <p>This engine is certified to be emissions compliant for the following use:</p> <p><input type="checkbox"/> MODERATE (*** HOURS) <input checked="" type="checkbox"/> INTERMEDIATE (*** HOURS) <input type="checkbox"/> EXTENDED (**** HOURS)</p> <p>Check owner's manual for further details.</p>

⑤



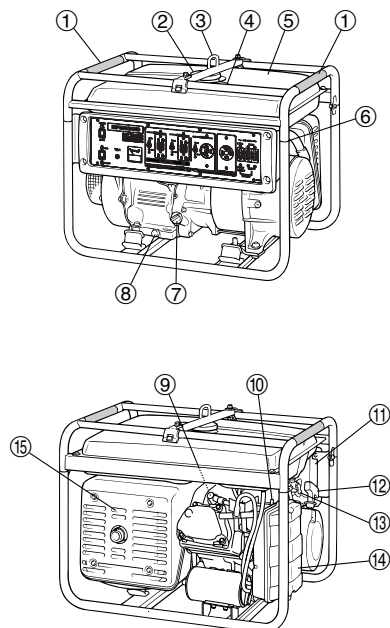
## EF5200DE



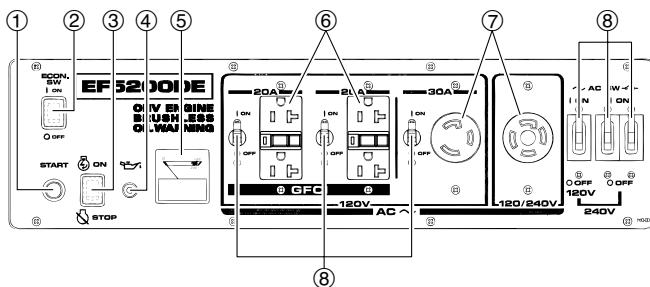
## DESCRIPTION

- ① Carrying handles (shaded)
- ② Fuel tank cap
- ③ Engine hanger
- ④ Fuel level gauge
- ⑤ Fuel tank
- ⑥ Ground (earth) terminal
- ⑦ Battery
- ⑧ Oil filler cap
- ⑨ Oil drain bolt
- ⑩ Spark plug
- ⑪ Voltage adjuster
- ⑫ Fuel cock lever
- ⑬ Recoil starter handle
- ⑭ Air filter case cover
- ⑮ Muffler

## EF5200D

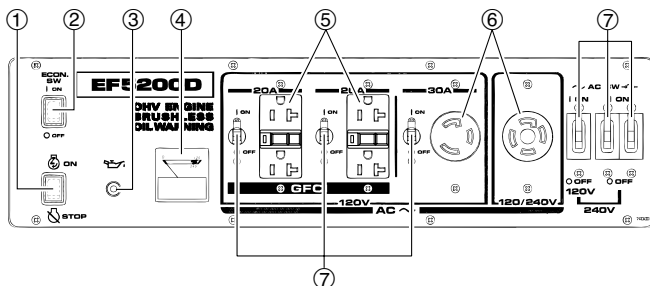


- ① Carrying handles (shaded)
- ② Fuel tank cap
- ③ Engine hanger
- ④ Fuel level gauge
- ⑤ Fuel tank
- ⑥ Ground (earth) terminal
- ⑦ Oil filler cap
- ⑧ Oil drain bolt
- ⑨ Spark plug
- ⑩ Choke lever
- ⑪ Voltage adjuster
- ⑫ Recoil starter handle
- ⑬ Fuel cock lever
- ⑭ Air filter case cover
- ⑮ Muffler



## Control panel (EF5200DE)

- ① Starter switch
- ② Economy control switch
- ③ Engine switch
- ④ Oil warning light (red)
- ⑤ Voltage meter
- ⑥ G.F.C.I. receptacle
- ⑦ AC receptacle
- ⑧ AC switch (N.F.B.)



## Control panel (EF5200D)

- ① Engine switch
- ② Economy control switch
- ③ Oil warning light (red)
- ④ Voltage meter
- ⑤ G.F.C.I. receptacle
- ⑥ AC receptacle
- ⑦ AC switch (N.F.B)



## CONTROL FUNCTION

### Engine switch

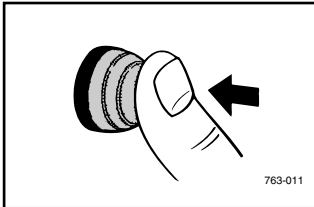
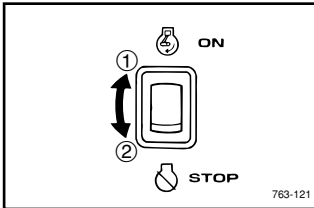
The engine switch controls the ignition system.

#### ① “ON” (ON)

Ignition circuit is switched on.  
The engine can be started.

#### ② “STOP” (STOP)

Ignition circuit is switched off.  
The engine will not run.



### Starter switch (EF5200DE)

The starter switch controls the following item.

Push:

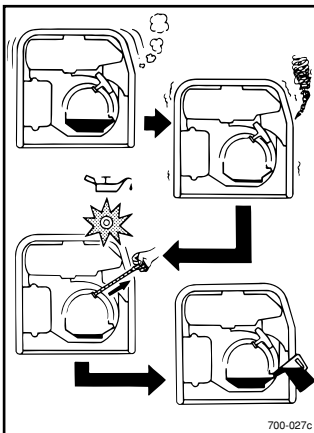
Starting circuit is switched on.

Release:

Starting circuit is switched off.

### NOTICE

**Take your hand off the switch immediately after the engine starts.**

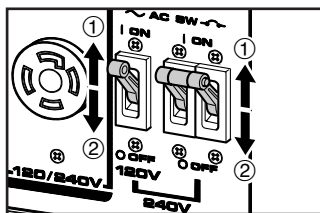


### Oil warning light (red)

When the oil level falls below the lower level, the oil warning light comes on and then the engine stops automatically. Unless you refill with oil, the engine will not start again.

### TIP

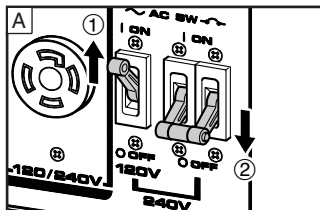
If the engine stalls or does not start, turn the engine switch to “ON” (ON) and then pull the recoil starter. If the oil warning light flickers for a few seconds, the engine oil is insufficient. Add oil and restart.



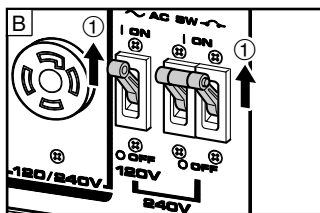
## AC switch (N.F.B.)

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

- ① “1” (ON)
- ② “0” (OFF)



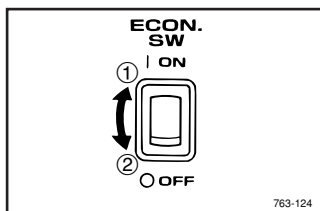
[A] Supplies AC 120 V



[B] Supplies AC 120 V and 240 V

## NOTICE

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.



## Economy control switch

- ① “1” (ON)

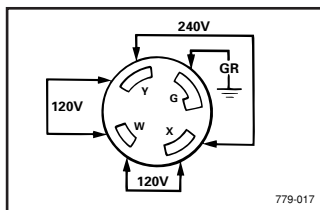
When the economy control switch is turned “1” (ON), the economy control unit controls the engine speed according to the connected load. The results are better fuel consumption and less noise.

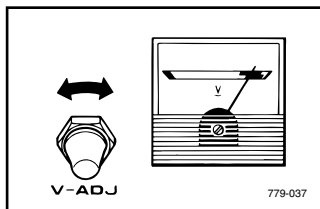
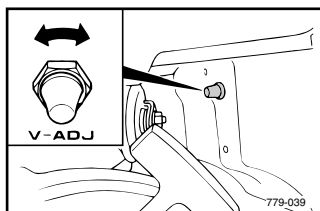
- ② “0” (OFF)

When the economy control switch is turned “0” (OFF), the engine runs at the rated r/min (3,600 r/min) regardless of whether is a load connected or not.

## TIP

- The economy control switch must be turned to “0” (OFF) when using electric devices that require a large starting current, such as a compressor of a submersible pump.
- The economy control switch must be turned to “0” (OFF) to increase engine speed to rated r/min when:
  - using a load of 0.8 A or less.
  - supplying AC 120 V only from W with Y.





## Voltage adjuster

The voltage adjuster is equipped for adjusting output voltage to rated voltage.

### TIP

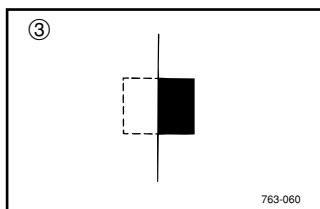
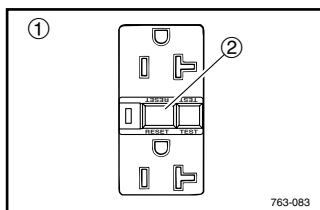
Turn the voltage adjuster clockwise or counterclockwise to increase or decrease output voltage.

## G.F.C.I. receptacle



### TO REDUCE THE CHANCE OF ELECTRICAL SHOCK:

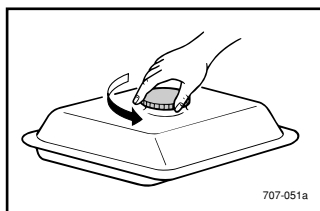
- Do not attempt to operate electric devices if the ground fault circuit interrupter reset button pops out repeatedly during use.
- Test the ground fault circuit interrupter during the pre-operation checks according to the maintenance instructions on page 36.
- Remember that only receptacles labeled “GFCI” have ground fault circuit interrupter protection.



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

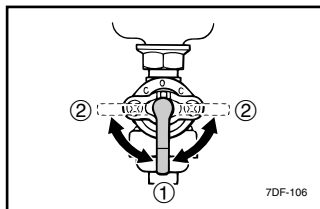
If the reset button pops out, the electric devices connected into the receptacle may be faulty. If this happens, check the electric devices carefully. If the electric devices appears to be in good condition, press the reset button firmly until a click is heard. This will restore power. If the reset button pops out again, disconnect all electric devices immediately. Have the electric devices inspected and repaired by a qualified repair person before attempting to use them again.

- ① G.F.C.I. (Ground Fault Circuit Interrupter)
- ② Reset button
- ③ Pops out



### Fuel tank cap

Remove the fuel tank cap by turning it counterclockwise.



### Fuel cock lever

The fuel cock supplies fuel from the fuel tank to the carburetor.

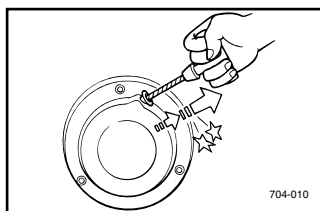
The fuel cock has two positions.

#### ① ON

With the lever in this position, fuel flows to the carburetor. Normal using is done with the lever in this position.

#### ② OFF

With the lever in this position, fuel will not flow. Always turn the lever to this position when the engine is not running.



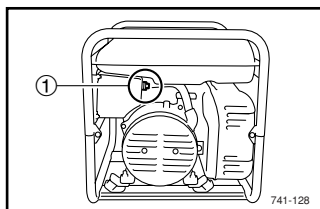
### Recoil starter

The recoil starter is used for starting the engine.

Pull the recoil starter slowly until it is engaged, then pull it briskly.

### (EF5200DE)

When the engine does not start by electric starter, using the recoil starter.



### Ground (earth) terminal

Ground (earth) terminal connects the earth line for prevention of electric shock.

When the electric device is earthed, always the generator must be earthed.

#### ① Ground (earth) terminal

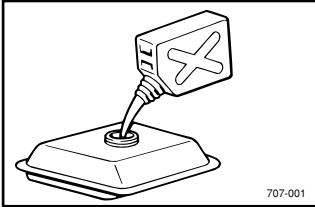
# PREPARATION

## Fuel

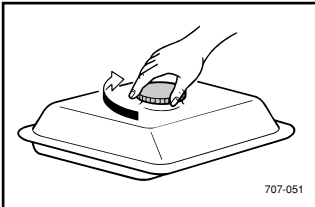


### WARNING

- Fuel is highly flammable and poisonous. Check “SAFETY INFORMATION” (See page 2) carefully before filling.
- Do not overfill the fuel tank, otherwise it may overflow when the fuel warms up and expands.
- After fill the fuel, make sure the fuel tank cap is tightened securely.



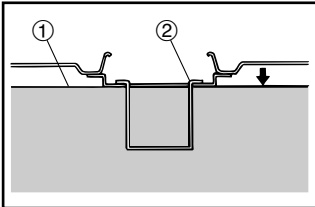
707-001



707-051

### NOTICE

- Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.
- Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts.

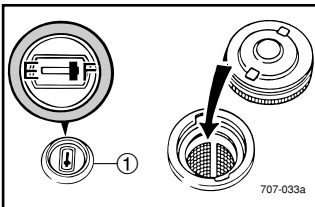


Make sure there is sufficient fuel in the tank. When refueling, be sure to fill the tank to the bottom edge of the fuel tank filter.

- ① Fuel level
- ② Fuel tank filter

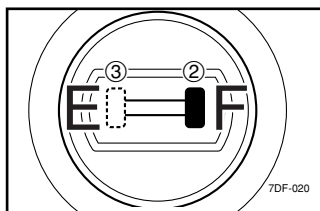
Your Yamaha engine has been designed to use regular unleaded gasoline with a pump octane number  $((R + M)/2)$  of 86 or higher, or research octane number of 91 or higher.

1. Stop the engine.
2. Place the generator on a level surface.
3. Remove the fuel tank cap.
4. Check the fuel level.
5. If low, fill the tank with fuel.



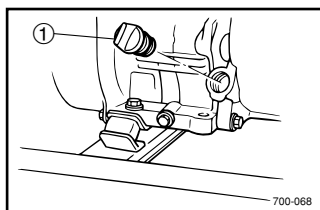
707-033a

- ① Fuel level gauge



② "F"	Full
③ "E"	Empty

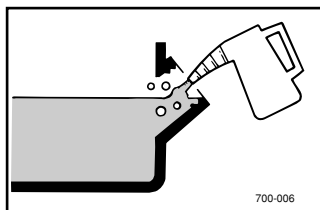
Recommended fuel:  
Unleaded gasoline  
Fuel tank capacity:  
Total:  
23.0 L (6.08 US gal, 5.06 Imp gal)



## Engine oil

### NOTICE

The generator has been shipped without engine oil. Do not start the engine until you have filled it with the sufficient engine oil.

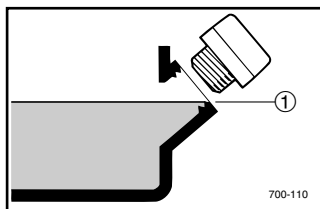


1. Place the generator on a level surface.

2. Remove the oil filler cap.

① Oil filler cap

3. Fill the specified amount of the recommended engine oil, and then tighten the oil filler cap.



① Correct level

Recommended engine oil:

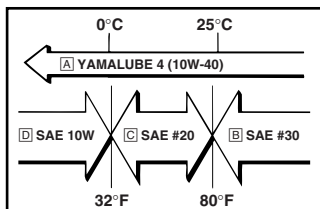
- ☐ A YAMALUBE 4 (10W-40),  
SAE 10W-30 or 10W-40
- ☐ B SAE #30
- ☐ C SAE #20
- ☐ D SAE 10W

Recommended engine oil grade:

API Service SE type or higher

Engine oil quantity:

1.1 L (1.16 US qt, 0.97 Imp qt)

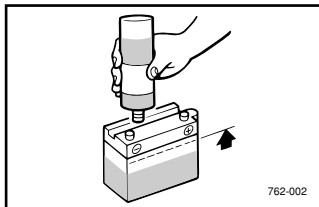
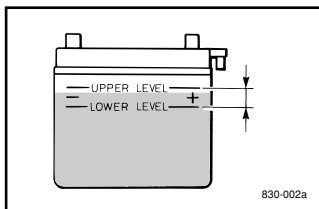




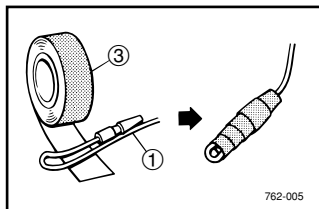
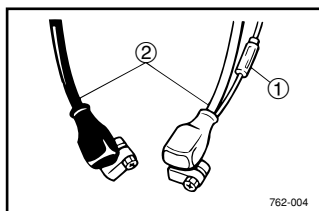
## Battery installation (EF5200DE) (See page 35 and 40 for more details)

### **⚠ WARNING**

- Electrolyte is poisonous and dangerous since it contains sulfuric acid, which causes severe burns. Avoid any contact with skin, eyes or clothing and always shield your eyes when working near batteries. In case of contact, administer the following **FIRST AID**.
  - **EXTERNAL:** Flush with plenty of water.
  - **INTERNAL:** Drink large quantities of water or milk and immediately call a physician.
  - **EYES:** Flush with water for 15 minutes and seek prompt medical attention.
- Batteries produce explosive hydrogen gas. Therefore, keep sparks, flames, cigarettes, etc., away from the battery and provide sufficient ventilation when charging it in an enclosed space.
- **KEEP THIS AND ALL BATTERIES OUT OF THE REACH OF CHILDREN.**



1. Fill the battery with the electrolyte.  
Refer to the instruction sheet included with the electrolyte for filling instructions.
2. Turn the engine switch to "⏻" (STOP) to prevent accidental short circuiting.
3. Install the battery on the battery mount tray securely.
4. Connect the red wire to the positive (+) terminal first, then the black wire to the negative (-) terminal of the battery. Do not reverse these positions.
5. Install the battery box and tighten the stay.



## ⚠ WARNING

- Be sure to service battery leads to prevent arcing when the battery is not installed.
- Disconnect the battery charging output lead. Then insulate the generator side connector by folding it back on itself and carefully wrapping it with electrical tape to prevent electrical contact with ground (earth) or any other leads.
- Remove the battery leads from the generator.

- ① Connector
- ② Battery leads
- ③ Electrical tape

## Recommended battery (EF5200DE)

Recommended battery:  
Capacity: 12 V/26 Ah



## PRE-OPERATION CHECK



### **WARNING**

**If any item in the Pre-operation check is not working properly, have it inspected and repaired before operating the generator.**

The condition of a generator is the owner's responsibility. Vital components can start to deteriorate quickly and unexpectedly, even if the generator unused.

### **TIP**

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

### **Pre-operation check**

#### **Fuel (See page 12)**

- Check fuel level in fuel tank.
- Refuel if necessary.

#### **Fuel line**

- Check fuel hose for cracks or damage.
- Replace if necessary.

#### **Engine oil (See page 13)**

- Check oil level in engine.
- If necessary, add recommended oil to correct level.
- Check generator for oil leakage.

#### **(EF5200DE)**

#### **Battery (See page 35)**

- Check the fluid level.
- Add only distilled water if necessary.

#### **The point where abnormality was recognized by use.**

- Check operation.
- If necessary, consult a Yamaha dealer.

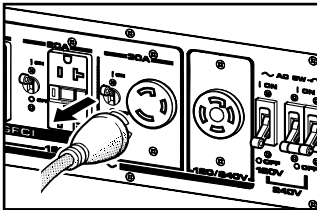
## OPERATION

### WARNING

- 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.
- Before starting the engine, do not connect any electric devices.
- Clean dusts, dirt or water off the receptacle before use.

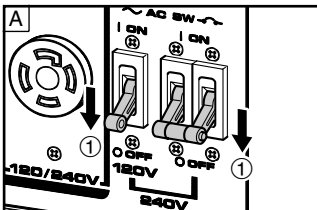
### NOTICE

The generator has been shipped without engine oil. Do not start the engine until you have filled it with the sufficient engine oil.



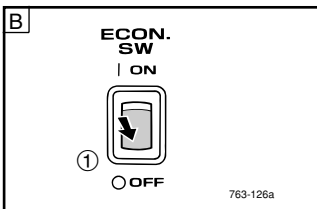
### Starting the engine Electric starting (EF5200DE)

1. Disconnect any electric devices.
2. Turn the AC switch (N.F.B.) and economy control switch to "O" (OFF).

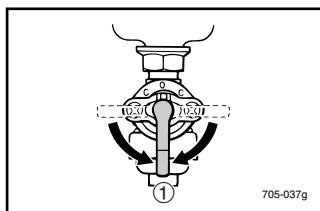


① "O" (OFF)

[A] AC switch (N.F.B.)

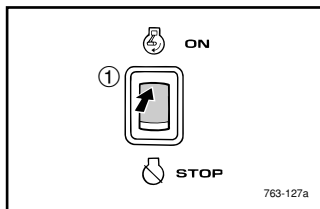


[B] Economy control switch



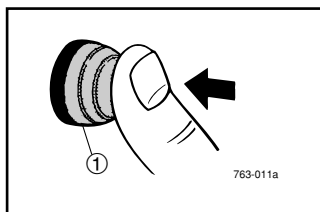
3. Turn the fuel cock lever to ON.

① ON



4. Turn the engine switch to "Ⓔ" (ON).

① "Ⓔ" (ON)

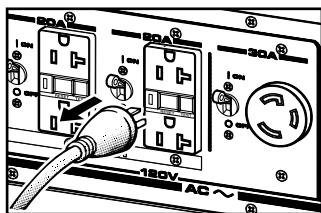


5. Push the starter switch to start the engine.

① Starter switch

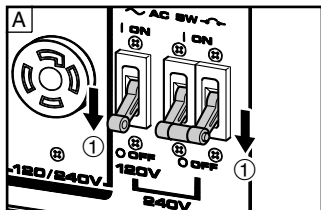
### NOTICE

- Take your hand off the switch immediately after the engine starts.
- If the engine fails to start, release the switch, wait a few seconds, then try again. Each attempt should be as short as possible to preserve the battery. Do not crank the engine more than 5 seconds on any one attempt.



## Manual starting

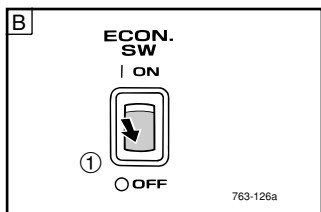
1. Disconnect any electric devices.



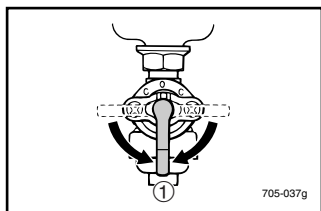
2. Turn the AC switch (N.F.B.) and economy control switch to "○" (OFF).

① "○" (OFF)

[A] AC switch (N.F.B.)

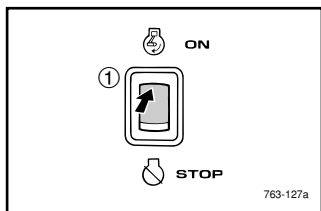


[B] Economy control switch



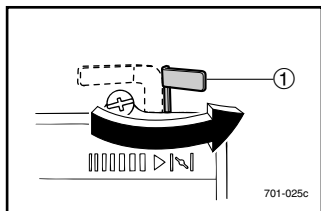
3. Turn the fuel cock lever to ON.

① ON



4. Turn the engine switch to "🔌" (ON).

① "🔌" (ON)

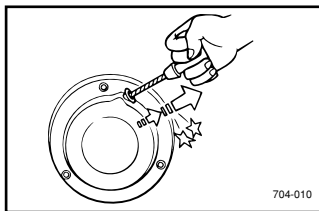


5. Turn the choke lever to "🔌". (EF5200D)

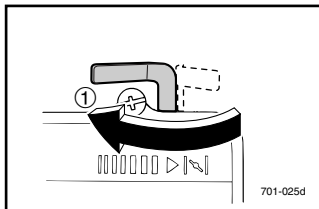
① Choke lever

### TIP

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

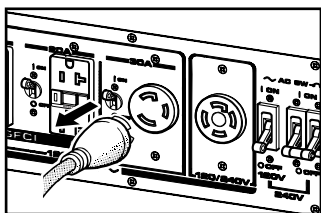


6. Pull the recoil starter slowly until it is engaged, then pull it briskly.



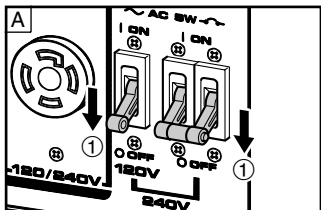
7. After the engine starts, warm up the engine until the engine does not stop when the choke lever is returned to the original position. (EF5200D)
8. Turn the choke lever back to the original position. (EF5200D)

- ① Original position



## Stopping the engine

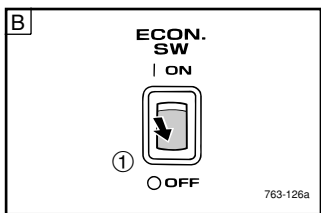
1. Turn off any electric devices and then disconnect the plugs.



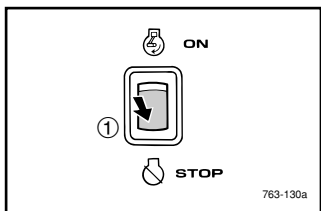
2. Turn the AC switch (N.F.B.) and economy control switch to "○" (OFF).

① "○" (OFF)

A AC switch (N.F.B.)

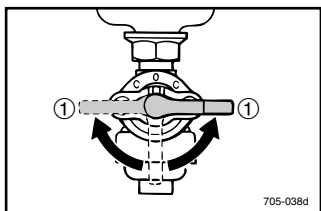


B Economy control switch



3. Turn the engine switch to "⊗" (STOP).

① "⊗" (STOP)



4. Turn the fuel cock lever to OFF.

① OFF

## Connection

### Alternating Current (AC)

#### **WARNING**

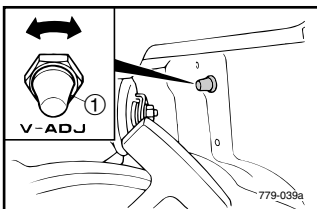
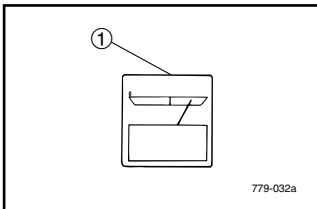
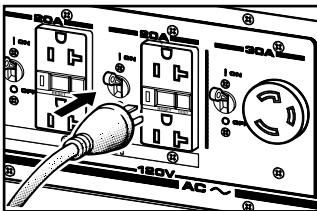
Be sure any electric devices are turned off before plugging it in.

#### **NOTICE**

- Be sure all electric devices including the lines and plug connections are in good condition before connection to the generator.
- Be sure the total load is within generator rated output.
- Be sure the receptacle load current is within receptacle rated current.

#### **TIP**

Make sure to ground (earth) the generator. When the electric device is earthed, always the generator must be earthed.



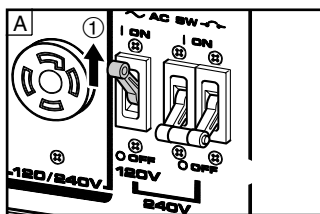
1. Start the engine.
2. Plug into the AC receptacle.
3. Make sure the voltage meter indicates the rated voltage.  
If the voltage meter does not indicate the rated voltage (i.e., when using an extension cord, etc.), use the voltage adjuster to adjust the output voltage to the rated voltage.

① Voltage meter

#### **TIP**

Turn the voltage adjuster clockwise or counterclockwise to increase or decrease output voltage.

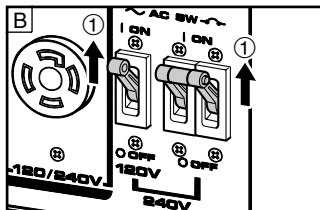
① Voltage adjuster



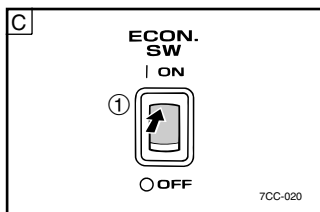
4. Turn the AC switch (N.F.B.) and economy control switch to "I" (ON) and turn on any electric devices.

① "I" (ON)

A AC 120 V can be used.



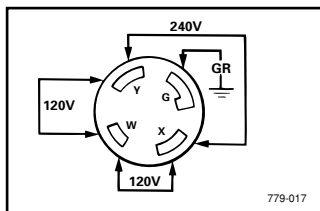
B AC 120 V and 240 V can be used.



C Economy control switch

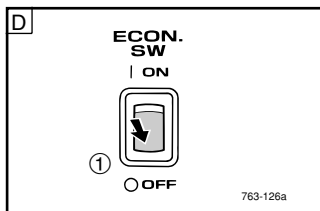
### NOTICE

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



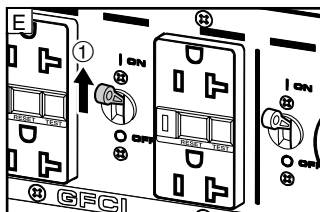
### TIP

- The 4-blade plug receptacle can supply both 120 V and 240 V power sources.
- The economy control switch must be turned to "O" (OFF) to increase engine speed to rated r/min when:
  - using a load of 0.8 A or less.
  - supplying AC 120 V only from W with Y.



D Economy control switch

① "O" (OFF)



5. Turn the individual AC switch (N.F.B.) to "I" (ON).




① "I" (ON)

E Individual AC switch for G.F.C.I. receptacle



## Application range

When using the generator, make sure the total load is within rated output of a generator. Otherwise, generator damage may occur.

AC			
Power factor	1	0.8–0.95	0.4–0.75 (Efficiency 0.85)
EF5200DE EF5200D	–4,500W	–3,600W	–1,530W

### TIP

- “\_” means below.
- Application wattage indicates when each device is used by itself.

### NOTICE

- **Do not overload.** The total load of all electrical appliances must not exceed the supply range of the generator. Overloading will damage the generator.
- Some types of precision equipment such as electronic controllers, PCs, electronic computers, microcomputer-based equipment and battery chargers are sensitive to voltage fluctuations and may require more stable voltage supply than the voltage supplied from the portable generator.  
When using such equipment, consult with a Yamaha dealer.
- When supplying precision equipment, electronic controllers, PCs, electronic computers, microcomputer-based equipment or battery chargers, keep the generator a sufficient distance away to prevent electrical interference from the engine. Also ensure that electrical noise from the engine does not interfere with any other electrical devices located near the generator.
- If the generator is to supply medical equipment, advice should first be obtained from the manufacturer, a medical professional or hospital.
- Some electrical appliances or general-purpose electric motors have high starting currents, and cannot therefore be used, even if they lie within the supply ranges given in the above table. Consult the equipment manufacturer for further advice.

## **High altitude operation**

This engine may require a high altitude carburetor kit to ensure correct engine operation at altitudes above 4000 ft. (1219 meters). If you operate your engine at altitudes above 4000 ft. (1219 meters) consistently, have your local Yamaha dealer perform the necessary carburetor modification. This engine should be operated in its original configuration below 4000 ft. (1219 meters) as damage may occur if high altitude carburetor kit is installed and operated below 4000 ft. (1219 meters).

## PERIODIC MAINTENANCE

Safety is an obligation of the owner. Periodic inspection, adjustment and lubrication will keep your generator in the safest and most efficient condition possible. The most important points of generator inspection, adjustment, and lubrication are explained on the following pages.



### WARNING

If you are not familiar with maintenance work, have a Yamaha dealer do it for you.

### Maintenance chart



### WARNING

Stop the engine before starting maintenance work.

### NOTICE

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

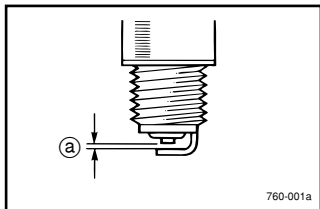
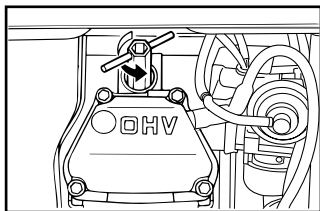
Item	Routine	Pre-operation check	Every	
			6 months or 100 Hr	12 months or 300 Hr
Spark plug	<ul style="list-style-type: none"><li>• Check condition.</li><li>• Clean and replace if necessary.</li></ul>		○	
Fuel	<ul style="list-style-type: none"><li>• Check fuel level and leakage.</li></ul>	○		
Fuel hose	<ul style="list-style-type: none"><li>• Check fuel hose for cracks or damage.</li><li>• Replace if necessary.</li></ul>	○		
Engine oil	<ul style="list-style-type: none"><li>• Check oil level in engine.</li></ul>	○		
	<ul style="list-style-type: none"><li>• Replace.</li></ul>		○(*1)	
Air filter element	<ul style="list-style-type: none"><li>• Check condition.</li></ul>		○(*2)	
	<ul style="list-style-type: none"><li>• Clean.</li></ul>			
Muffler screen	<ul style="list-style-type: none"><li>• Check condition.</li><li>• Clean and replace if necessary.</li></ul>		○	
Spark arrester	<ul style="list-style-type: none"><li>• Check condition.</li><li>• Clean and replace if necessary.</li></ul>		○	
Fuel tank filter	<ul style="list-style-type: none"><li>• Clean and replace if necessary.</li></ul>			○

Item	Routine	Pre-operation check	Every	
			6 months or 100 Hr	12 months or 300 Hr
Fuel strainer	<ul style="list-style-type: none"> <li>• Clean and replace if necessary.</li> </ul>			○
Battery (EF5200DE)	<ul style="list-style-type: none"> <li>• Check the fluid level.</li> <li>• Add only distilled water if necessary.</li> </ul>	○		
Crankcase breather hose	<ul style="list-style-type: none"> <li>• Check breather hose for cracks or damage.</li> <li>• Replace if necessary.</li> </ul>			○
Cylinder head	<ul style="list-style-type: none"> <li>• Decarbonize cylinder head.</li> <li>• More frequently if necessary.</li> </ul>	After every 500 Hrs.		
Valve clearance	<ul style="list-style-type: none"> <li>• Check and adjust valve clearance.</li> </ul>			★
Idle speed	<ul style="list-style-type: none"> <li>• Check and adjust idle speed.</li> </ul>			★
Recoil starter	<ul style="list-style-type: none"> <li>• Check recoil starter for damage.</li> </ul>			★
Fittings / fasteners	<ul style="list-style-type: none"> <li>• Check all fittings and fasteners.</li> <li>• Correct if necessary.</li> </ul>			★
The point where abnormality was recognized by use.		○		

\*1..... Initial replacement of the engine oil is after one month or 20 hours of operation.

\*2..... The air filter element needs to be cleaned more frequently when using in unusually wet or dusty areas.

★..... Since these items require special tools, data and technical skills, have a Yamaha dealer perform the service.



## Spark plug inspection

The spark plug is important engine components, which should be checked periodically.

1. Remove the spark plug cap and the spark plug.
2. Check for discoloration and remove the carbon.  
The porcelain insulator around the center electrode of spark plug should be a medium-to-light tan color.
3. Check the spark plug type and gap.

### a Spark plug gap

Standard spark plug:

BPR4ES (NGK)

Spark plug gap:

0.7–0.8 mm (0.028–0.031 in)

### TIP

The spark plug gap should be measured with a wire thickness gauge and, if necessary, adjusted to specification.

4. Install the spark plug.

Spark plug tightening torque:

20 Nm (2.0 m·kgf, 14 ft·lbf)

### TIP

If a torque wrench is not available when installing a spark plug, a good estimate of the correct torque is 1/4–1/2 turn past finger tight. However, the spark plug should be tightened to the specified torque as soon as possible.

5. Install the spark plug cap.

## 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.

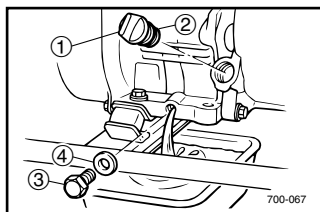
## Engine oil replacement



### WARNING

**Avoid draining the engine oil immediately after stopping the engine. The oil is hot and should be handled with care to avoid burns.**

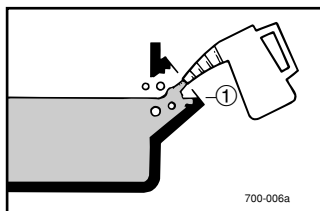
1. Place the generator on a level surface and warm up the engine for several minutes. Then stop the engine.
2. Remove the oil filler cap.
3. Place an oil pan under the engine. Remove the oil drain bolt so that the oil can be completely drained.
4. Check the oil drain bolt, oil filler cap and O-ring. Replace them if damaged.



- ① Oil filler cap
- ② O-ring
- ③ Oil drain bolt
- ④ Gasket

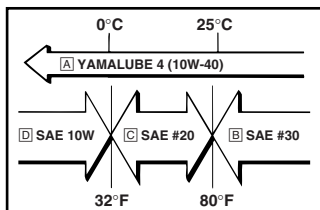
5. Install a new gasket and the oil drain bolt, and then tighten the bolt.

Oil drain bolt tightening torque:  
27 Nm (2.7 m·kgf, 20 ft·lbf)



6. Add engine oil to the correct level.

- ① Correct level



Recommended engine oil:

- ☐ A YAMALUBE 4 (10W-40),  
SAE 10W-30 or 10W-40
- ☐ B SAE #30
- ☐ C SAE #20
- ☐ D SAE 10W

Recommended engine oil grade:

API Service SE type or higher

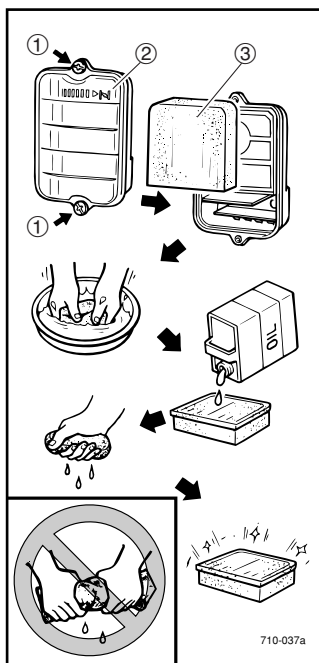
Engine oil quantity:

1.1 L (1.16 US qt, 0.97 Imp qt)

## NOTICE

**Be sure no foreign material enters the crankcase.**

7. Install the O-ring and the oil filler cap.



## Air filter

1. Remove the screws, and then remove the air filter case cover.

2. Remove the foam element.

- ① Screw
- ② Air filter case cover
- ③ Foam element

3. Wash the foam element in solvent and dry it.

## WARNING

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

4. Oil the foam element and squeeze out excess oil. The foam element should be wet but not dripping.

Recommended oil:  
Foam-air-filter oil or engine oil (See page 29)

## NOTICE

**Do not wring out the foam element when squeezing it.**

**This could cause it to tear.**

5. Insert the foam element into the air filter case.

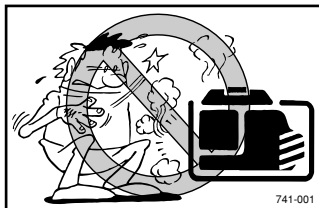
## NOTICE

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

## TIP

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

6. Install the air filter case cover and tighten the screws.

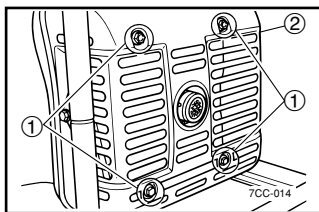


## Muffler screen and spark arrester

### WARNING

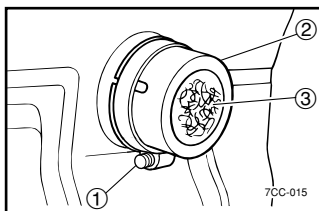
The engine and muffler will be very hot after the engine has been run.

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



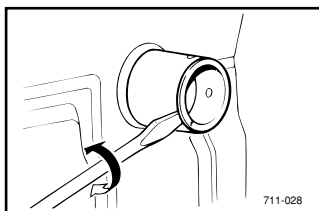
1. Remove the muffler cover bolts and then remove the muffler cover.

- ① Muffler cover bolt
- ② Muffler cover

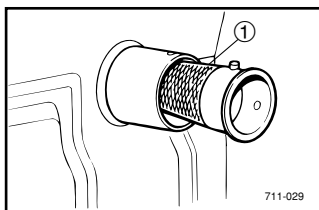


2. Loosen the muffler cap bolt and then remove the muffler cap and muffler screen.

- ① Muffler cap bolt
- ② Muffler cap
- ③ Muffler screen



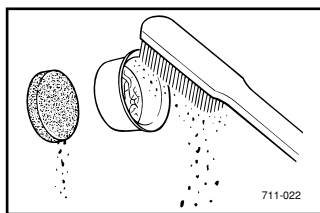
3. Use a flathead screw driver to pry the spark arrester out from the muffler.



4. Remove the spark arrester.

- ① Spark arrester

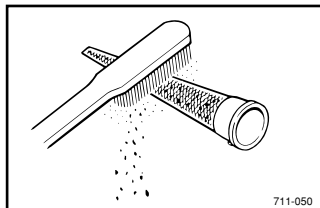




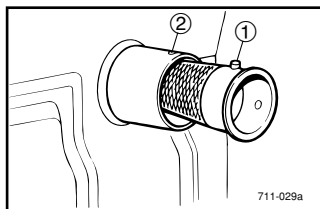
5. Remove the carbon deposits on the muffler screen and spark arrester using a wire brush.

### NOTICE

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



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

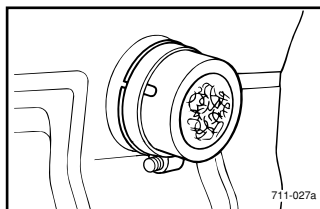


7. Install the spark arrester.

### TIP

Align the spark arrester lump to the hole in the muffler pipe.

- ① Spark arrester lump
- ② Hole

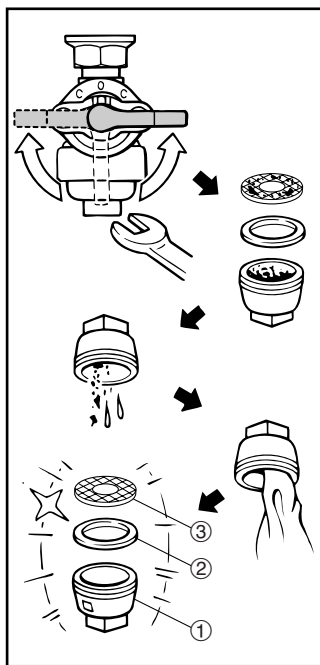


8. Install the muffler screen and muffler cap, and then tighten the muffler cap bolt.

Muffler cap bolt tightening torque:  
2.0 Nm (0.20 m·kgf, 1.4 ft·lbf)

9. Install the muffler cover and then tighten the muffler cover bolts.

Muffler cover bolt tightening torque:  
12 Nm (1.2 m·kgf, 8.7 ft·lbf)



## Fuel cock



### WARNING

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

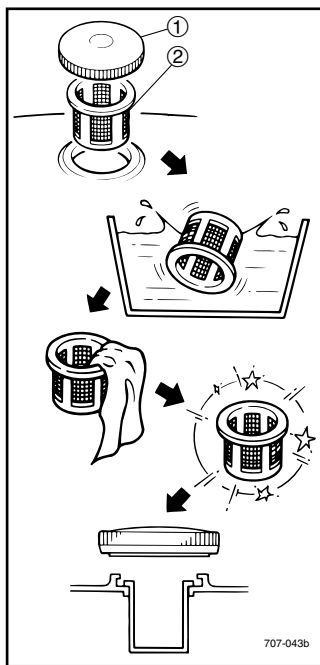
1. Stop the engine.
2. Turn the fuel cock lever to OFF.
3. Remove the fuel cock cup, gasket and fuel strainer.
4. Clean the cup and fuel strainer with gasoline and wipe it off.
5. Check the gasket. Replace it if damaged.
6. Install the fuel strainer, gasket and fuel cock cup.



### WARNING

**Be sure the fuel cock cup is tightened securely.**

- ① Fuel cock cup
- ② Gasket
- ③ Fuel strainer



## Fuel tank filter



### WARNING

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

1. Remove the fuel tank cap and fuel tank filter.

- ① Fuel tank cap
- ② Fuel tank filter

2. Clean the fuel tank filter with gasoline.  
Replace it if damaged.
3. Wipe the fuel tank filter and insert it.
4. Install the fuel tank cap.



### WARNING

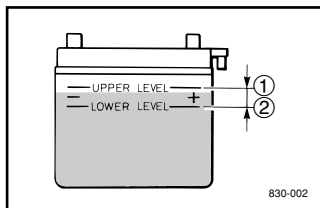
**Be sure the fuel tank cap is tightened securely.**



## Battery (EF5200DE)

### **⚠ WARNING**

- Electrolyte is poisonous and dangerous since it contains sulfuric acid, which causes severe burns. Avoid any contact with skin, eyes or clothing and always shield your eyes when working near batteries. In case of contact, administer the following FIRST AID.
  - **EXTERNAL:** Flush with plenty of water.
  - **INTERNAL:** Drink large quantities of water or milk and immediately call a physician.
  - **EYES:** Flush with water for 15 minutes and seek prompt medical attention.
- Batteries produce explosive hydrogen gas. Therefore, keep sparks, flames, cigarettes, etc., away from the battery and provide sufficient ventilation when charging it in an enclosed space.
- **KEEP THIS AND ALL BATTERIES OUT OF THE REACH OF CHILDREN.**

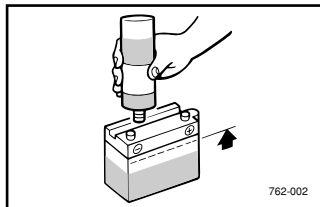


### Replenishing the battery fluid

1. Check the fluid level. The level should be between the upper and lower level marks.

- ① Upper level
- ② Lower level

2. Add only distilled water if necessary.



### **NOTICE**

- Normal tap water contains minerals which are harmful to a battery; therefore, refill only with distilled water.
- Do not disconnect the battery during engine operation.
- Avoid operating the generator with the battery removed.

## Fuse replacement (EF5200DE)

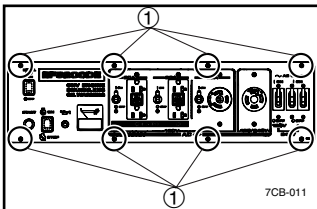
### **WARNING**

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

### **NOTICE**

Be sure the engine switch is turned to “” (STOP) to prevent accidental short circuiting.

1. Remove the control panel screws and then remove the control panel.



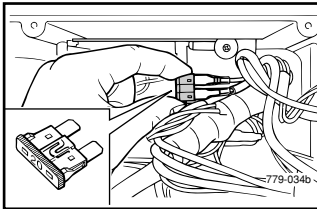
- ① Control panel screw

2. Replace the blown fuse with one of proper amperage.

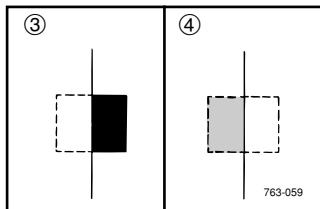
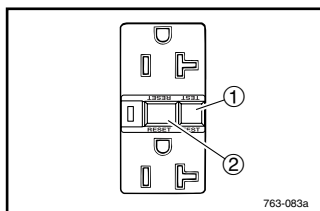
Specified fuse: 20 A

### **TIP**

If the fuse immediately blows again, consult a Yamaha dealer.



3. Install the control panel and tighten the control panel screws.



### G.F.C.I. receptacle test

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

- ① Test button  
② Reset button

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

4. 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**

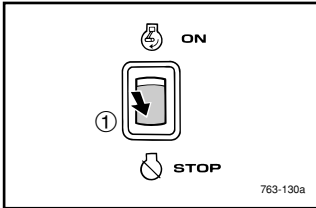
**Do not operate the generator with a faulty G.F.C.I. circuit. Electric shock could occur. Have the generator repaired by a qualified mechanic.**


## STORAGE

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

### Drain the fuel

1. Turn the engine switch to “” (STOP).



- ① “” (STOP)

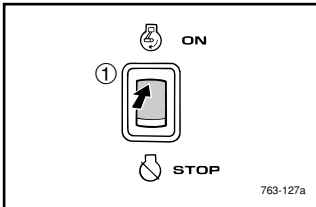
2. Remove the fuel tank cap and the fuel tank filter. Extract the fuel from the fuel tank into an approved gasoline container using a commercially available hand siphon. Then, install the fuel tank filter and the fuel tank cap.


### WARNING


**Fuel is highly flammable and poisonous. Check “SAFETY INFORMATION” (See page 2) carefully.**

### NOTICE

**Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.**



3. Turn the engine switch to “” (ON).

- ① “” (ON)

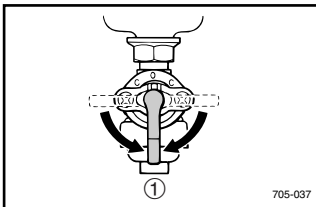
4. Turn the fuel cock lever to ON.

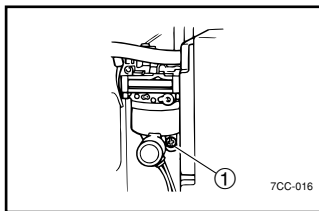
- ① ON

5. Start the engine and leave it run until it stops. The engine stops in approximately 20 minutes time by running out of fuel.

### TIP

- Do not connect with any electrical devices. (unloaded operation)
- Duration of the running engine depends on the amount of the fuel left in the tank.






6. Drain the fuel remaining in the carburetor into an approved container by loosening the drain screw on the carburetor float chamber.

① Drain screw

7. Tighten the drain screw.

8. Turn the engine switch to “” (STOP).

9. Turn the fuel cock lever to OFF.

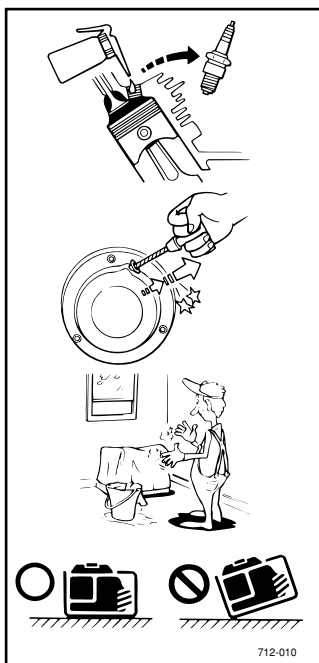
10. Tighten further if any screws, bolts and nuts are loose.

11. Store the generator in a dry, well-ventilated place, with the cover placed over it.

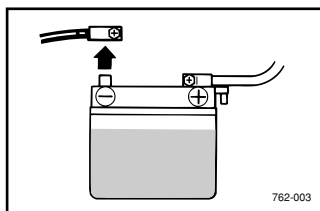
## Engine

Perform the following steps to protect the cylinder, piston ring, etc. from corrosion.

1. Remove the spark plug, pour about one tablespoon of SAE 10W-30 or 20W-40 motor oil into the spark plug hole and install the spark plug only. 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.







## Battery (EF5200DE)

1. Remove the battery.
2. Check the fluid level. Add only distilled water if necessary. (See page 35; "Battery-Replenishing the battery fluid")
3. After checking the fluid level, charge the battery.
4. Store the battery in a cool, dark and dry place and charge it once a month.

Do not store the battery in an excessively warm or cold place [i.e., less than 0°C (30°F) or more than 30°C (90°F)].



## WARNING

- **Disconnect the negative lead first, then the positive lead from the battery.**
- **Connect the positive lead first, then the negative lead to the battery when installing the battery.**
- **Never smoke or make and break connections at the battery while charging. Sparks may ignite the battery gas.**
- **Be sure the battery terminals are tight and that the battery vent tube is properly routed and is securely attached to the battery.**

## NOTICE

- **Do not disconnect the battery during engine operation.**
- **Avoid operating the generator with the battery removed.**

## TROUBLESHOOTING

### Engine won't start

#### 1. Fuel systems

No fuel supplied to combustion chamber.

- No fuel in tank .... Supply fuel.
- Fuel in tank .... Fuel cock lever to ON.

#### ① ON

- 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.

#### 3. Electrical systems

- Engine switch to "Ⓔ" (ON).

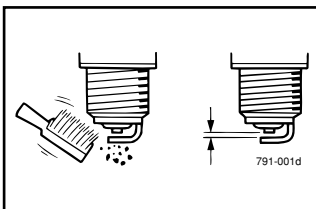
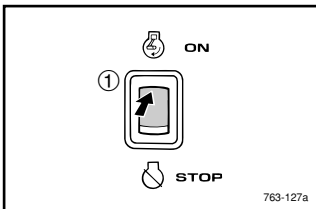
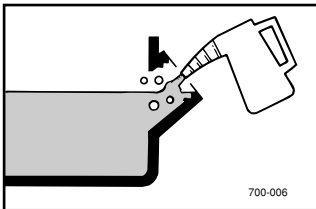
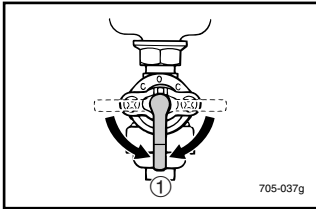
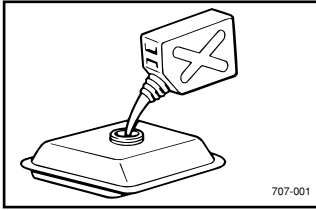
#### ① "Ⓔ" (ON)

Poor spark

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

### Generator won't produce power

- Safety device (AC switch) to "○" (OFF)....Turn the AC switch (N.F.B.) to "I" (ON).





— MEMO —

EF5200DE

A ENGINE DOES NOT START



B Turn the engine switch to "I" (ON), then push the starter switch. And check if the starter motor cranks.




C Cranks

D Does not crank



F Push the starter switch, and check if the oil warning light flickers.





G Does not flicker

H Flickers



L Push the starter switch, and check the spark plug for spark strength.  
(See "WARNING")



 **WARNING**

- To prevent **FIRE HAZARDS** be sure fuel is not present in the spark plug area.
- To prevent **FIRE HAZARDS** be sure to place the spark plug as far way as possible from the spark plug hole and carburetor area.
- To prevent **ELECTRIC SHOCK** do not hold spark plug lead with hand while testing.

M OK

N Does not spark



R Check the following.

- Fuel cock clogging
- Air filter element clogging

S Clogged

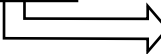
T OK



U Clean or replace.

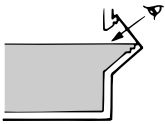
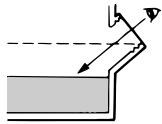
V OK

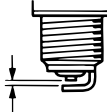

W Engine does not start.



X Consult a Yamaha dealer.

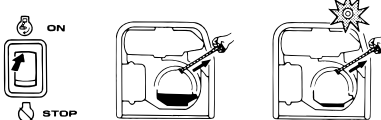
E	Faulty battery and/or starter motor. Consult a Yamaha dealer.
---	--

I	Check engine oil level.		
			
J	OK	K	Level low
Consult a Yamaha dealer.		Add engine oil.	

O	Check the spark plug.		
<ul style="list-style-type: none"><li>• Type : BPR4ES</li><li>• Gap : 0.7–0.8 mm (0.028–0.031 in)</li></ul>			
 			
P	Incorrect	Q	OK
Replace or adjust gap.		Clean the spark plug.	

A ENGINE DOES NOT START

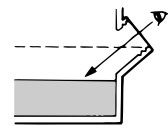
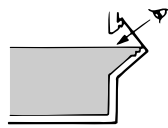
B Turn the engine switch to "ON" (ON), then pull the recoil starter and check if the oil warning light flickers.



C Does not flicker

D Flickers

E Check engine oil level.




F OK

G Level low

Consult a Yamaha dealer.

Add engine oil.

H Pull the recoil starter and check the spark plug for spark strength. (See "WARNING")



**WARNING**


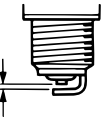
- To prevent FIRE HAZARDS be sure fuel is not present in the spark plug area.
- To prevent FIRE HAZARDS be sure to place the spark plug as far way as possible from the spark plug hole and carburetor area.
- To prevent ELECTRIC SHOCK do not hold spark plug lead with hand while testing.

I OK

J Does not spark

K Check the spark plug.

- Type : BPR4ES
- Gap : 0.7–0.8 mm (0.028–0.031 in)



L Incorrect

M OK

Replace or adjust gap.

Clean the spark plug.

N Check the following.

- Fuel line clogging
- Air filter element clogging

O Clogged

P OK

Q Clean or replace.

R OK

S Engine does not start.

T Consult a Yamaha dealer.

# SPECIFICATIONS

## Dimensions

	Unit	EF5200DE	EF5200D
Overall length	mm (in)	894 (35.2)	670 (26.4)
Overall width	mm (in)	520 (20.5)	510 (20.1)
Overall height	mm (in)	577 (22.7)	577 (22.7)
Dry weight	kg (lb)	93 (205)	86 (190)

## Engine

	Unit	EF5200DE/EF5200D
Type		Air cooled 4-stroke gasoline OHV
Cylinder arrangement		Inclined, 1 cylinder
Displacement	cm <sup>3</sup>	357
Bore × stroke	mm (in)	85.0 × 63.0 (3.35 × 2.48)
Operation hours	Hr	7.4
Fuel		Unleaded gasoline
Fuel tank capacity	L (US gal, Imp gal)	23.0 (6.08, 5.06)
Engine oil quantity	L (US qt, Imp qt)	1.1 (1.16, 0.97)
Ignition system		TCI
Spark plug: Type		BPR4ES (NGK)
Gap	mm (in)	0.7–0.8 (0.028–0.031)
Noise level*	dB (A)/7m	73

\* : Measured at rated operation from 7 m (23 ft) distance.

## Generator

	Unit	EF5200DE/EF5200D
AC output		
Rated voltage	V	120/240
Rated frequency	Hz	60
Rated current	A	37.5/18.8
Rated output	kVA	4.5
Safety device: Type		N.F.B.

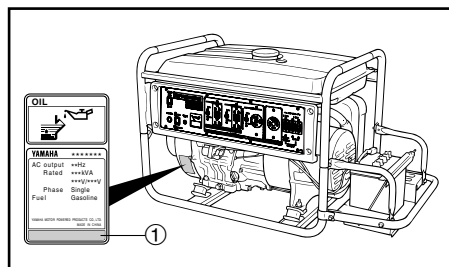
## Battery (EF5200DE)

	Unit	EF5200DE
Voltage	V	12
Capacity	Ah	26

## CONSUMER INFORMATION

PRI-I.D. NUMBER:

<b>MODEL</b>	
<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	
<b>PRI-I.D. CODE</b>	<b>SERIAL No.</b>
<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>



### 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.

### Machine identification

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

- ① Machine serial number

### TIP

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.



## EXHAUST EMISSION CONTROL SYSTEM AND COMPONENTS

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

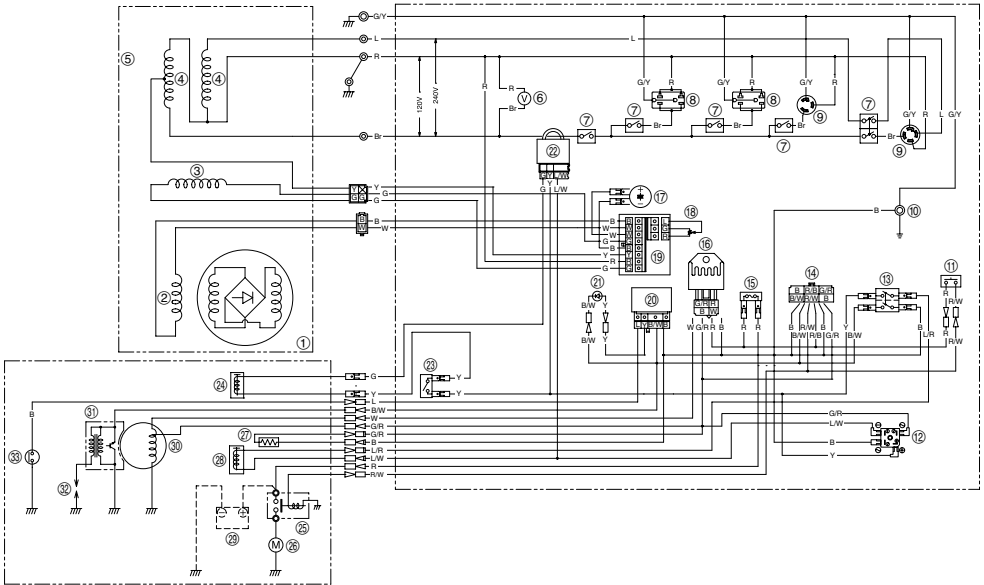
The above items and the corresponding acronyms are provided in accordance with U.S. EPA REGULATIONS FOR NEW NONROAD SPARK-IGNITION NONHANDHELD ENGINES and the CALIFORNIA REGULATIONS FOR 1995 AND LATER SMALL OFF-ROAD ENGINES.

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.

## WIRING DIAGRAM

# EF5200DE

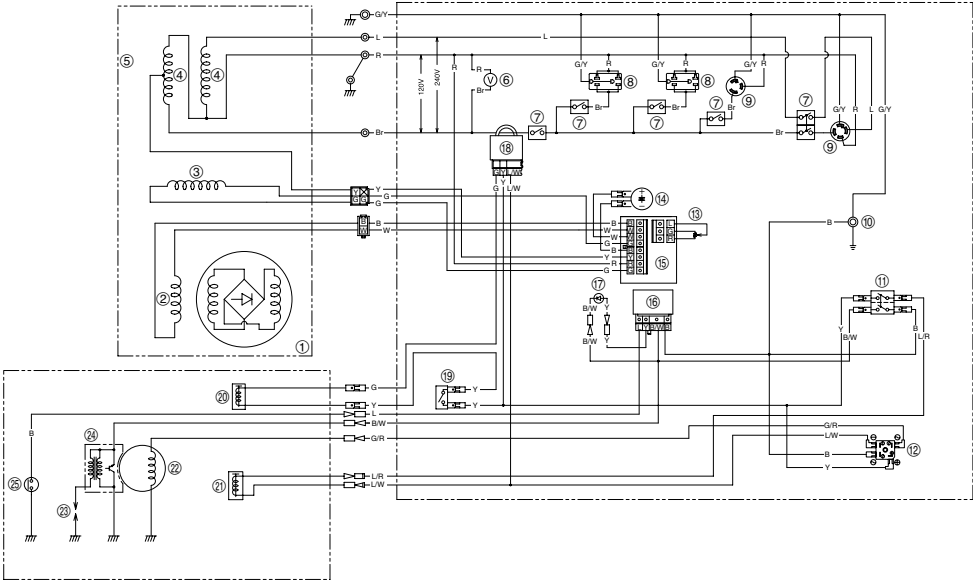


- ① Rotor assembly
- ② Exciter field coil
- ③ Sub coil
- ④ Main coil
- ⑤ Stator assembly
- ⑥ Voltage meter
- ⑦ AC switch (N.F.B.)
- ⑧ G.F.C.I. receptacle
- ⑨ AC receptacle
- ⑩ Ground (earth) terminal
- ⑪ Starter switch
- ⑫ Rectifier
- ⑬ Engine switch
- ⑭ Remote control terminal
- ⑮ Fuse
- ⑯ Rectifier/regulator
- ⑰ Condenser
- ⑱ Voltage adjuster
- ⑲ AVR
- ⑳ Oil warning unit
- ㉑ Oil warning light
- ㉒ Economy control unit
- ㉓ Economy control switch
- ㉔ Solenoid valve
- ㉕ Starter relay
- ㉖ Starter motor
- ㉗ Carburetor heater
- ㉘ Carburetor solenoid valve
- ㉙ Battery
- ㉚ Charging coil
- ㉛ TCI unit
- ㉜ Spark plug
- ㉝ Oil level switch

**Color code**

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

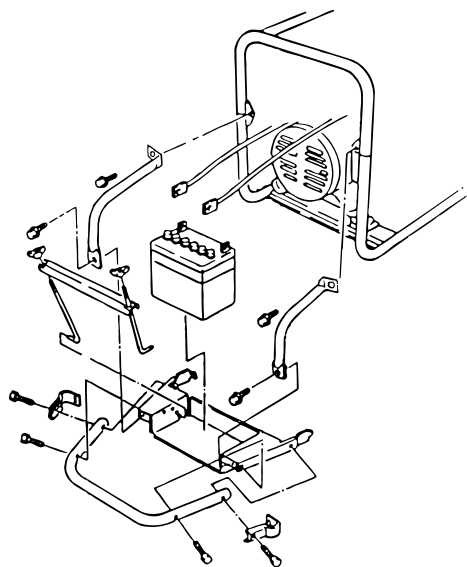
EF5200D



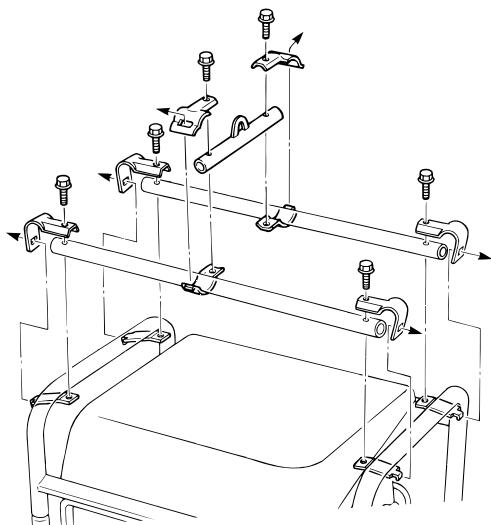
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|---------------------------|------------------------------|
| ① Rotor assembly          | ①⑦ Oil warning light         |
| ② Exciter field coil      | ①⑧ Economy control unit      |
| ③ Sub coil                | ①⑨ Economy control switch    |
| ④ Main coil               | ②⑩ Solenoid valve            |
| ⑤ Stator assembly         | ②⑪ Carburetor solenoid valve |
| ⑥ Voltage meter           | ②⑫ Charging coil             |
| ⑦ AC switch (N.F.B.)      | ②⑬ Spark plug                |
| ⑧ G.F.C.I. receptacle     | ②⑭ TCI unit                  |
| ⑨ AC receptacle           | ②⑮ Oil level switch          |
| ⑩ Ground (earth) terminal |                              |
| ⑪ Engine switch           |                              |
| ⑫ Rectifier               |                              |
| ⑬ Voltage adjuster        |                              |
| ⑭ Condenser               |                              |
| ⑮ AVR                     |                              |
| ⑯ Oil warning unit        |                              |

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

## BATTERY TRAY INSTALLATION (EF5200DE)

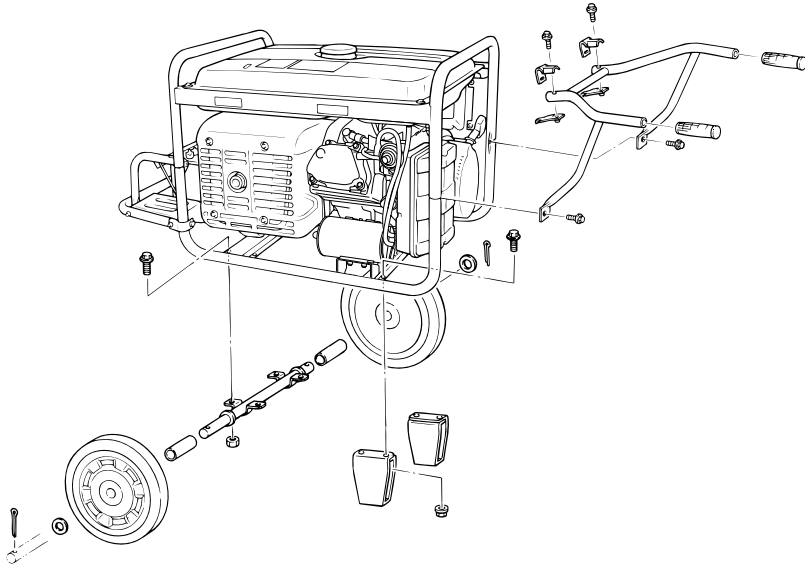


## ENGINE HANGER INSTALLATION



## OPTIONAL PARTS INSTALLATION

### Two wheel kit



## YAMAHA EXTENDED SERVICE (Y.E.S.)

Keep your Yamaha Generator protected even after your warranty expires with genuine Yamaha Extended Service (Y.E.S.).

- Y.E.S. is designed and administered by Yamaha Motor Corporation to provide maximum owner satisfaction. You get uninterrupted factory-backed coverage for extra peace of mind.
- Y.E.S. is flexible. You can choose the plan that's right for you: 12 months, 24 months or 36 months coverage.
- Y.E.S. is administered by the same Yamaha people that handle your warranty - and it shows in the comprehensive coverage benefits. There are no hour limitations and Y.E.S. covers manufacturing defects just like your warranty. See a sample contract at your Yamaha dealer and see how comforting uninterrupted factory backed protection can be.
- There are no "out-of-pocket" expenses for covered repairs. Yamaha will never ask you to pay a deductible.
- Nationwide coverage. Y.E.S. coverage is honored at any authorized Yamaha Outdoor Power Equipment Service dealer.
- Y.E.S. coverage is transferable to a new owner if you sell or trade-in. That can make you Yamaha much more valuable.

This excellent Y.E.S. plan coverage is only available to Yamaha owners like you, and only while your Yamaha is still within the Yamaha Limited Warranty period. So visit your authorized Yamaha dealer to get all the facts. He can show you how easy it is to protect your investment with Yamaha Extended Service.

Special note:

If visiting your dealer isn't convenient, contact Yamaha with your Primary ID number (your frame number). We'll be happy to help you get the Y.E.S. coverage you need.

Yamaha Service Marketing  
P.O. Box 6555  
Cypress, CA 90630  
1-866-YES-EXTD  
(1-866-937-3983)





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## Register Your Generator at

**www.yamahawarrantyregistration.com**

## Generator Warranty Registration

**To begin your 3 year warranty coverage, please register online within 30 days of purchase:**

**www.yamahawarrantyregistration.com**

If you prefer, you can complete and mail this card. Be sure to attach proper postage.

Owner's Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone Number ( \_\_\_\_\_ ) \_\_\_\_\_ - \_\_\_\_\_

E-mail address \_\_\_\_\_

Yamaha Generator Model Name: \_\_\_\_\_ (Example) EF2000iS

Yamaha Generator Primary I.D. Serial Number: \_\_\_\_\_ (Example) 7DK - 0000000  
(See "Machine Identification" in your Owner's Manual for location of this number)  
(The engine stamp is not the valid Primary ID Number)

Date Purchased \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ Selling Dealer Name \_\_\_\_\_  
Month Day Year

- Please register online or complete and mail this form. It will help ensure that Yamaha has accurately registered your purchase for warranty.
- Manufacturers are required to maintain a complete up-to-date list of all first purchasers of products in the event of a safety-related defect or recall.

REGISTER ONLINE OR MAIL THIS CARD TO YAMAHA MOTOR CORPORATION, U.S.A.

PLACE  
STAMP  
HERE

**YAMAHA MOTOR CORPORATION U.S.A.  
P.O. BOX 6555  
CYPRESS, CA 90630**

**ATTN: WARRANTY DEPARTMENT**