



Generator

OWNER'S MANUAL



Read this manual carefully before operating this machine.

EF3000iS EF3000iSE EF3000iSEB

LIT-19626-02-21
7CH-28199-18

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.

**EF3000iS
EF3000iSE
EF3000iSEB**

OWNER'S MANUAL

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P/N LIT-19626-02-21

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

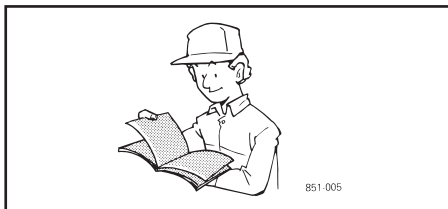
A WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

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 machine 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 machine and should remain with this machine when resold.

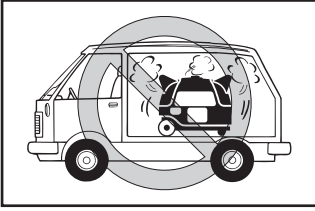
* Product and specifications are subject to change without notice.

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SAFETY INFORMATION

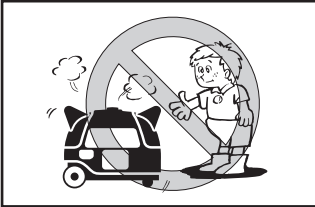
- This generator is not designed for on-board use. Do not use it while installed on the vehicle.



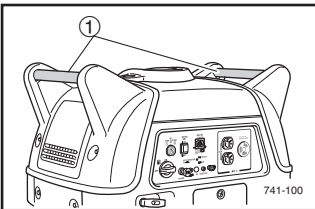
- Do not modify the generator or use it with its parts removed.



- Do not allow children to operate the generator.

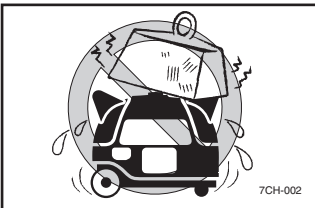


- Be sure to carry the generator only by its carrying handles.



- ① Carrying handles (shaded)

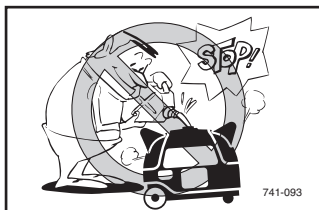
- Do not place any obstacles on the generator.





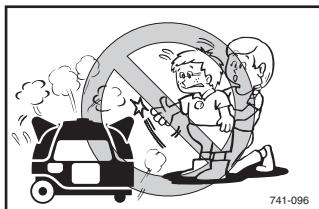
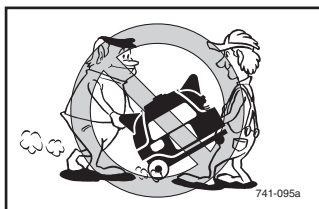
Exhaust fumes are poisonous

- 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.

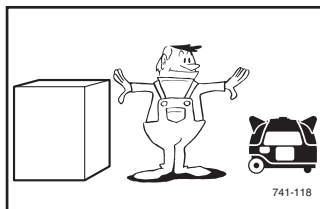


Engine and muffler may be hot

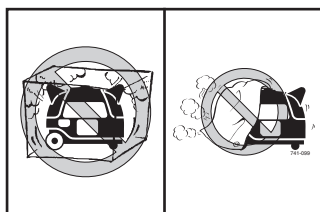
- Place the generator in a place where pedestrians or children are not likely to touch the generator.



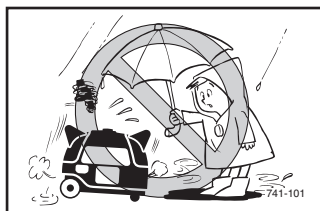
- Avoid placing any flammable materials near the exhaust outlet during operation.



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

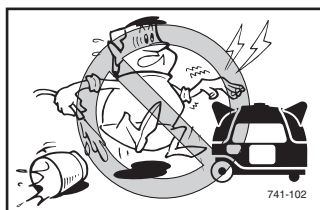


- Do not operate the engine with a dust cover or other objects covering it.
- When covering the generator, be sure to do so only after the engine and muffler have completely cooled down.

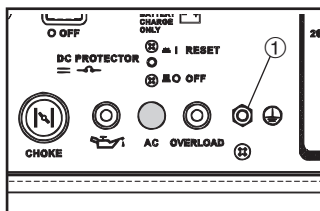


Electric shock prevention

- Never operate the engine in rain or snow.

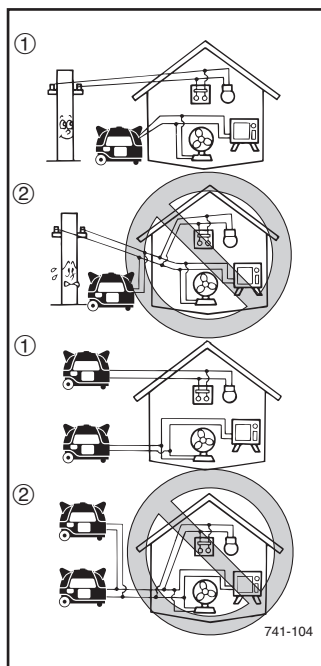


- Never touch the generator with wet hands or electrical shock will occur.



- 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

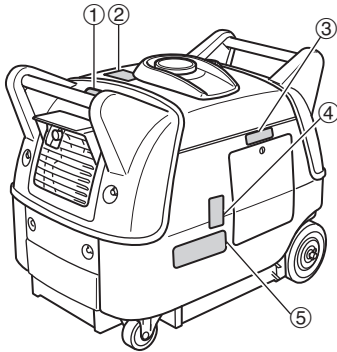
Connection

⚠ 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.

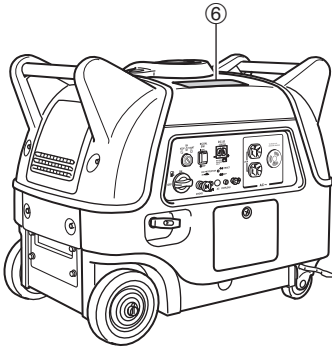
TIP

Maintain or replace safety and instruction labels, as necessary.

①

HOT EXHAUST

7WL-28176-10



②

⚠ DANGER

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.

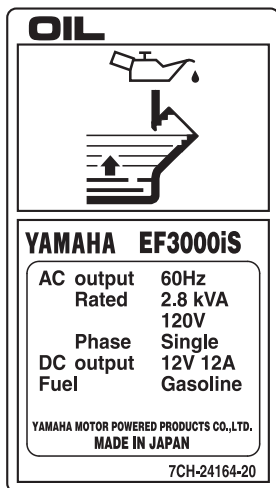
Only use **OUTSIDE** and far away from windows, door, and vents.

③

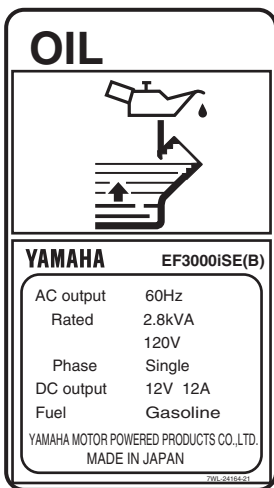
NOTICE

Use the specified spark plug only.
Specified plug: BPR4ES(NGK)

④ EF3000iS



④ EF3000iSE, EF3000iSEB



⑤

| | | |
|---|--|---|
| EMISSION CONTROL INFORMATION YAMAHA MOTOR CO., LTD. THIS ENGINE MEETS U.S. EPA EXH / EVP REGS AND CALIFORNIA EXH / EVP SI SORE REGS FOR****. EMISSION COMPLIANCE PERIOD : *** HOURS EF : *****,***** DISPLACEMENT : ** CC EVAP F CARB : ***** EVAP F EPA : ***** EM | | The air index of this engine is 3 FOR EXTENDED Check owner's manual for further details. No other adjustments needed. |
|---|--|---|

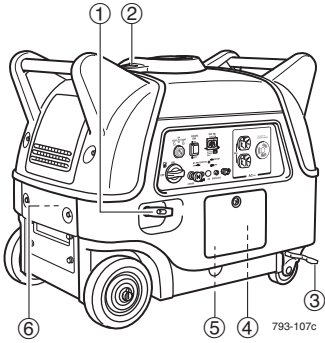
⑥

⚠ WARNING

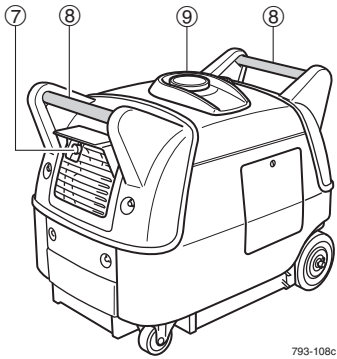
- Read the owner's manual and all labels before operating.
- Only operate in well-ventilated areas. Exhaust gas contains poisonous carbon monoxide.
- Check for spilled fuel or fuel leaks.
- Stop engine before refueling.
- Do not operate near flammable materials.
- Electrocutation can occur if generator is used in rain, snow, or near water. Keep this unit dry at all times.
- Electrocutation 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.
- 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.

7CF-24162-50

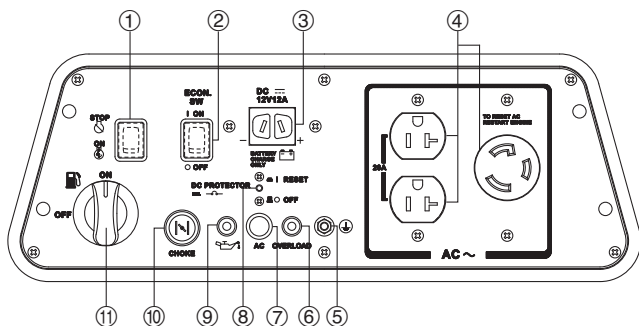
DESCRIPTION



- ① Recoil starter
- ② Fuel level gauge
- ③ Caster lock lever
- ④ Oil filler cap
- ⑤ Oil drain bolt
- ⑥ Battery box/Battery
(For EF3000iSE, EF3000iSEB)
- ⑦ Muffler
- ⑧ Carrying handles (shaded)
- ⑨ Fuel tank cap



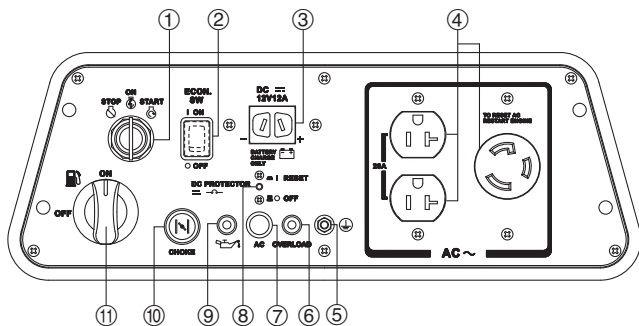
EF3000iS

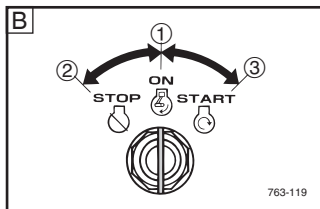
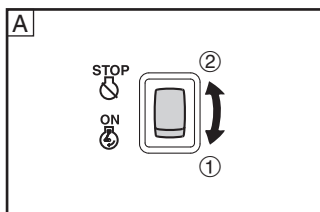


Control panel

- ① Engine switch
- ② Economy control switch
- ③ DC receptacle
- ④ AC receptacle
- ⑤ Ground (earth) terminal
- ⑥ Overload indicator light
- ⑦ AC pilot light
- ⑧ DC protector
- ⑨ Oil warning light
- ⑩ Choke knob
- ⑪ Fuel cock lever

EF3000iSE, EF3000iSEB





Engine switch

The engine switch controls the ignition system.

① “ON” (ON)

Ignition circuit is switched on.

The engine runs on its position.

② “STOP” (STOP)

Ignition circuit is switched off.

The engine will not run.

③ “START” (START)

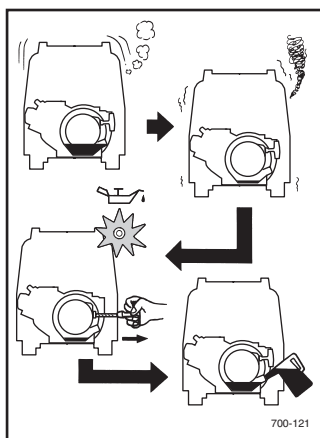
Starting circuit is switched on.

The starter motor starts and the engine can be started.

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

A EF3000iS

B EF3000iSE, EF3000iSEB

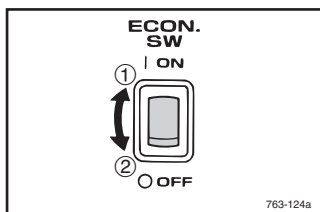


Oil warning light (red)

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 “START” (START) or pull the recoil starter. If the oil warning light comes on, the engine oil is insufficient. Add oil and restart.



Economy control switch

① “I” (ON)

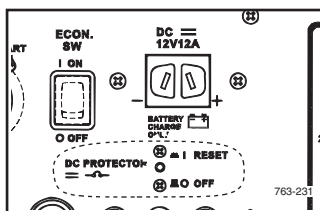
When the economy control switch is turned to “I” (ON), the economy control unit controls the engine speed according to the connected load. The results are better fuel consumption and less noise.

② “O” (OFF)

When the economy control switch is turned to “O” (OFF), the engine runs at the rated r/min (3,800 r/min) regardless of whether there is a load connected or not.

TIP

The economy control switch must be turned to “O” (OFF) when using electric devices that require a large starting current, such as a compressor or a submersible pump.



DC protector

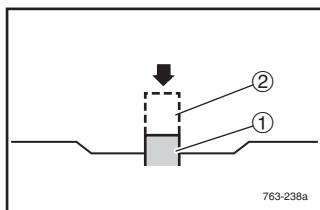
The DC protector turns off automatically when electric device being connected to the generator is operating and current above the rated flows. To use this equipment again, turn on the DC protector by pressing its button to “I” (RESET).

① “I” (RESET)

Direct current is output. (This is the default position.)

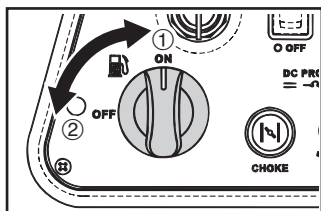
② “O” (OFF)

Direct current is not output.



NOTICE

Reduce the load of the connected electric device below the specified rated output of the generator if the DC protector turns “O” (OFF). If the DC protector turns “O” (OFF) again, stop using the device immediately and consult a Yamaha dealer.



Fuel cock lever

The fuel cock supplies fuel from the fuel tank to the carburetor. The fuel cock has two positions.

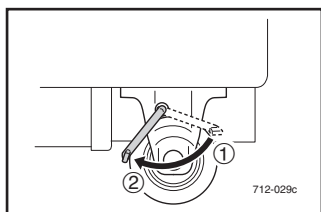
① ON

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.



Caster lock lever

The caster lock lever stops moving the generator.

① Release.

② Lock.

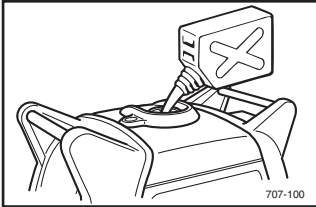
PREPARATION

Fuel

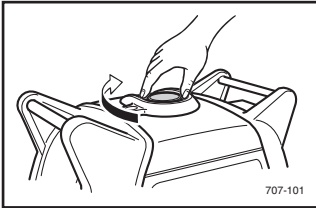


WARNING

- 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.



707-100

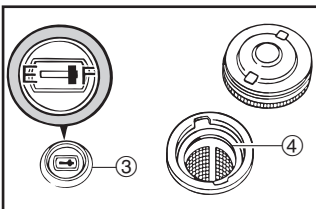
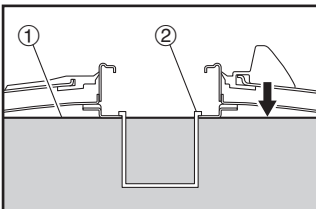


707-101

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.

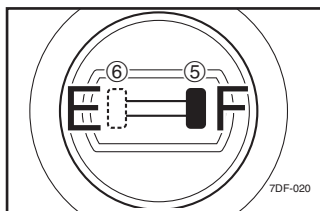
NOTICE

- 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
- ③ Fuel level gauge
- ④ Bottom edge of the fuel tank filter



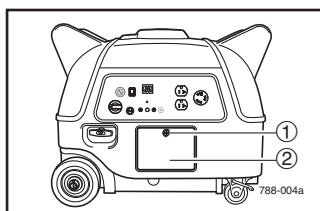
| | |
|-------|-------|
| ⑤ "F" | Full |
| ⑥ "E" | Empty |

Recommended fuel:
Unleaded gasoline
Fuel tank capacity:
Total:
13.0 L (3.43 US gal, 2.86 Imp gal)

Engine oil

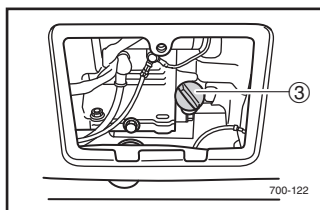
NOTICE

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



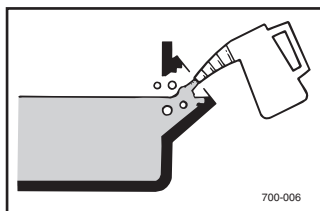
1. Place the generator on a level surface.
2. Remove the screw and the cover.

- ① Screw
- ② Cover



3. Remove the oil filler cap.

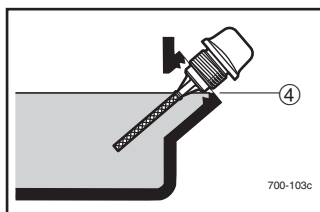
- ③ Oil filler cap



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

NOTICE

- Do not tilt the generator when adding engine oil. This could result in overfilling and damage to the engine.
- Be sure no foreign material enters the crank-case.



- ④ Correct level

Recommended engine oil:

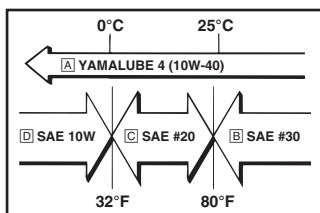
- ☐ A YAMALUBE 4 (10W-40),
SAE 10W-30 or 10W-40
- ☐ B SAE #30
- ☐ C SAE #20
- ☐ D SAE 10W

Recommended engine oil grade:

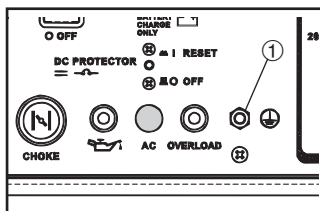
API Service SE type or higher

Engine oil quantity:

0.6 L (0.63 US qt, 0.53 Imp qt)



5. Install the cover and the screw.

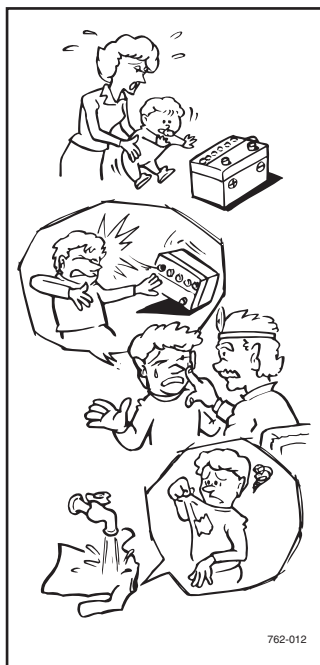


Ground (earth) terminal

Make sure to ground (earth) the generator.

Check "SAFETY INFORMATION" (See page 3).

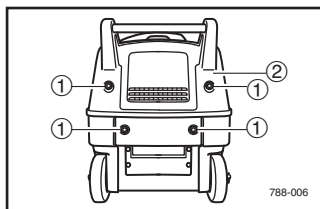
- ① Ground (earth) terminal



Battery (For EF3000iSE, EF3000iSEB)

WARNING

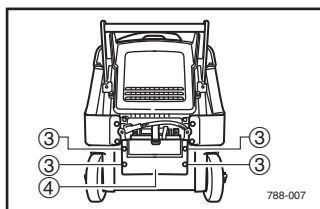
- Electrolyte is poisonous and dangerous since it contains sulfuric acid, which causes severe burns. Avoid any contact with skin, eyes or clothing and always shield your eyes when working near batteries. In case of contact, administer the following FIRST AID.
 - **EXTERNAL:** Flush with plenty of water.
 - **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.**



Installation

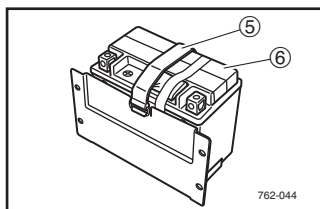
1. Remove the bolts and the cover.

- ① Bolt
- ② Cover



2. Remove the bolts and the battery box.

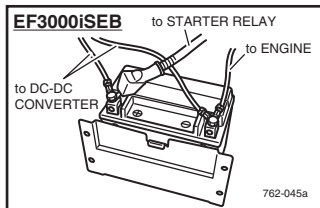
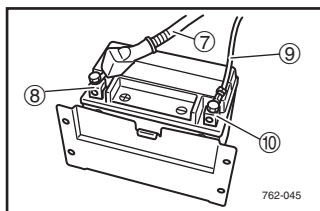
- ③ Bolt
- ④ Battery box



3. Remove the battery band and the battery.

- ⑤ Battery band
- ⑥ Battery

4. Fill the battery with the electrolyte.
Refer to the instruction sheet included with the electrolyte for filling instructions.

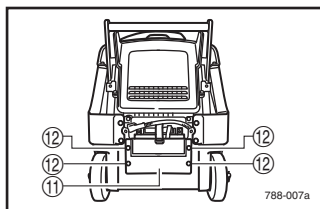


5. Install the battery onto the battery box.
6. Connect the positive lead (red) to the positive (+) battery terminal, then the negative lead (black) to the negative (-) battery terminal.

- ⑦ Positive (+) lead (red)
- ⑧ Positive (+) battery terminal
- ⑨ Negative (-) lead (black)
- ⑩ Negative (-) battery terminal

TIP

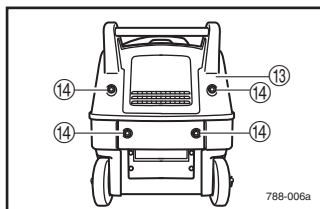
- Clamp the red wire to the positive (+) terminal first, then the black wire to the negative (-) terminal of the battery. Do not reverse these positions.
- For EF3000iSEB, tighten the two positive battery leads (one from the starter relay and one from the DC-DC converter) to the same positive terminal and the two negative battery leads (one from the engine and one from the DC-DC converter) to the same negative terminal.



7. Secure the battery with the battery band.
8. Install the battery box and tighten the bolts.

- ⑪ Battery box
- ⑫ Bolt

Battery box bolt tightening torque:
7 Nm (0.7 m·kgf, 5.1 ft·lbf)



9. Install the cover and tighten the bolts.

- ⑬ Cover
- ⑭ Bolt

Cover bolt tightening torque:
7 Nm (0.7 m·kgf, 5.1 ft·lbf)

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 is 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 crack or damage.
- Replace if necessary.

Engine oil (See page 14)

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

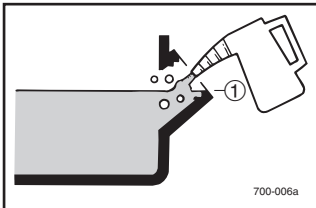
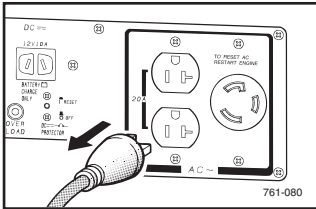
The point where abnormality was recognized by use

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

OPERATION

WARNING

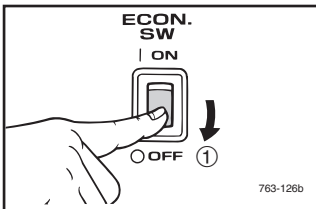
- Never operate the engine in a closed area or it may cause unconsciousness and death within a short time. Operate the engine in a well ventilated area.
- Before starting the engine, do not connect any electric devices.
- Clean dusts, dirt or water off the receptacle before use.



NOTICE

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

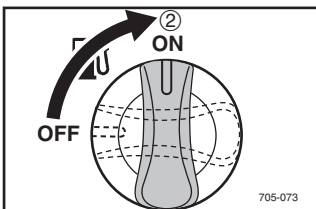
- ① Correct level



Starting the engine

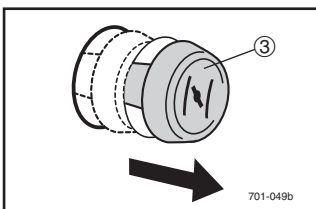
1. Turn the economy control switch to “○” (OFF) .

- ① “○” (OFF)



2. Turn the fuel cock lever to ON.

- ② ON

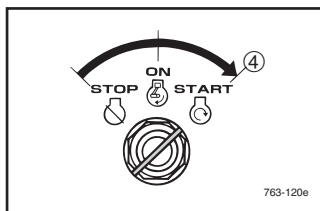


3. Pull the choke knob fully out.

- ③ Choke knob

TIP

The choke is not required to start a warm engine. Push the choke knob back to the original position.



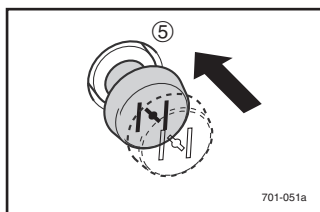
Electric Starting (For EF3000iSE, EF3000iSEB):

4. Turn the engine switch to the "C" (START).

④ "C" (START)

NOTICE

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.



5. After the engine starts, warm up the engine until the engine does not stop when the choke knob is returned to the original position.
6. Push the choke knob back to the original position.

⑤ Original position

TIP

When starting the engine in areas where the ambient temperature is below 0 °C (32 °F), the engine automatically operates at the rated r/min (3,550 r/min) for three minutes to warm up the engine regardless of the economy control switch position. The economy control unit operates normally afterwards if the economy control switch is turned to "I" (ON).



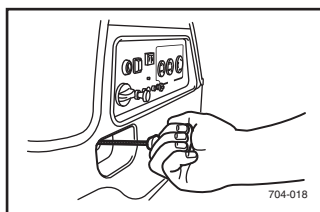
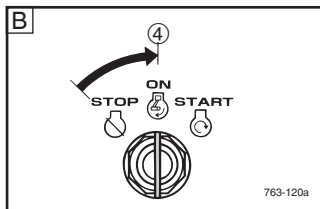
Manual Starting:

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

④ "I" (ON)

A EF3000iS

B EF3000iSE, EF3000iSEB







5. Pull the recoil starter slowly until it is engaged, then pull it briskly.
6. After the engine starts, warm up the engine until the engine does not stop when the choke knob is returned to the original position.
7. Push the choke knob back to the original position.

TIP

When starting the engine in areas where the ambient temperature is below 0 °C (32 °F), the engine automatically operates at the rated r/min (3,550 r/min) for three minutes to warm up the engine regardless of the economy control switch position. The economy control unit operates normally afterwards if the economy control switch is turned to "I" (ON).

Application range

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

| | | | | |
|-------------------------------------|---|---|---|---|
| AC |  |  |  | DC  |
| Power factor | 1 | 0.8–0.95 | 0.4–0.75 (Efficiency 0.85) | |
| EF3000iS EF3000iSE EF3000iSEB | –2,800 W | –2,240 W | –950 W | Rated voltage 12 V Rated current 12 A |

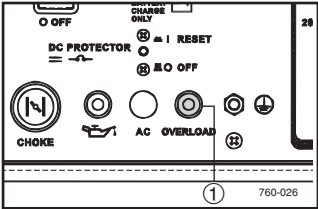
TIP

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

EX:

| | | |
|------------------------|--------------|----------------------|
| Generator rated output | | 2,800 VA |
| Frequency | Power factor | |
| AC | 1.0 | –2,650 W |
| | 0.8 | –2,090 W |
| DC | — | 144 W (12 V/12 A) |

- The overload indicator light (red) comes on when total wattage exceeds the application range. (See page 24 for more details.)



① Overload indicator light (red)

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.
- 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).

Connection

Alternating Current (AC)

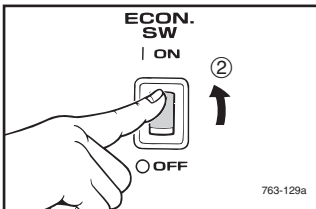
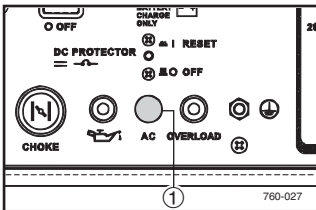
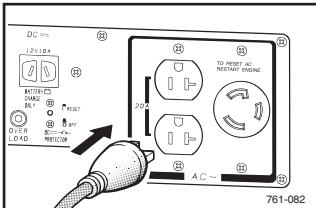
WARNING

Be sure any electric devices are turned off before plugging them 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.

1. Start the engine.
2. Plug in to the AC receptacle.



3. Make sure the AC pilot light (green) is on.

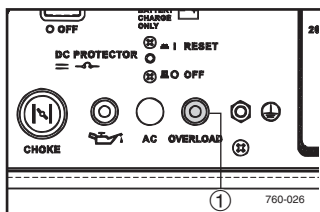
① AC pilot light (green)

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

② "I" (ON)

TIP

The economy control switch must be turned to "O" (OFF) when using electric devices that require a large starting current, such as a compressor or a submersible pump.



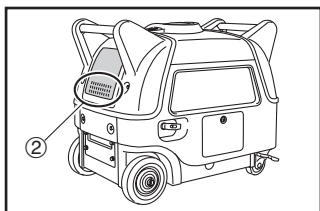
Overload indicator light (red)

The overload indicator light (red) comes on when an overload of a connected electrical device is detected, the inverter control unit overheats, or the AC output voltage rises. The electronic breaker will then activate, stopping power generation in order to protect the generator and any connected electric devices. The AC pilot light (green) will go off and the overload indicator light (red) will stay on, but the engine will not stop running.

① Overload indicator light (red)

When the overload indicator light (red) comes on and power generation stops, proceed as follows:

1. Turn off any connected electric devices and stop the engine.
2. Reduce the total wattage of connected electric devices within the rated output.
3. Check for blockages in the cooling air inlet and around the control unit. If any blockages are found, remove them.



② Cooling air inlet

4. After checking, restart the engine.

TIP

- The generator AC output automatically resets when the engine is stopped and then restarted.
- The overload indicator light (red) may come on for a few seconds at first when using electric devices that require a large starting current, such as a compressor or a submersible pump. However, this is not a malfunction.
- For EF3000iSEB, the overload indicator light (red) may flash when using electric devices that require a large starting current. However, this is not a malfunction. (The flashing indicator is a result of the generator temporarily discharging more than its rated wattage.)


While the overload indicator light (red) is flashing, electric devices that require a large starting current cannot be started.

Battery charging

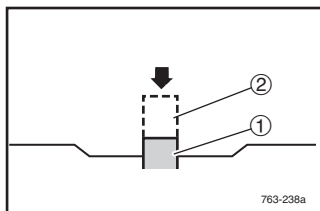
NOTICE

- Do not connect a VRLA (Valve Regulated Lead Acid) battery. To charge a VRLA battery, a special (constant voltage) battery charger is required.
- Do not use AC and DC power at the same time or the generator may be damaged.



TIP

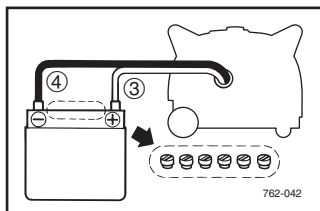
- The generator DC rated voltage is 12 V.
- Start the engine first, and then connect the generator to the battery for charging.
- Before starting to charge the battery, make sure that the DC protector is pressed to “ I” (RESET).

1. Start the engine.



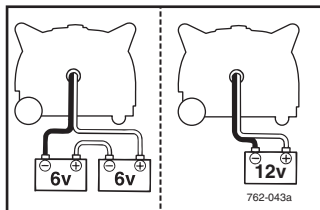
2. Press in the DC protector.

- ① “ I” (RESET)
② “ O” (OFF)



3. Connect the red battery charger lead to the positive (+) battery terminal.


- ③ Red wire
④ Black wire



4. Connect the black battery charger lead to the negative (-) battery terminal.
5. Turn the economy control switch to “O” (OFF) to start battery charging.

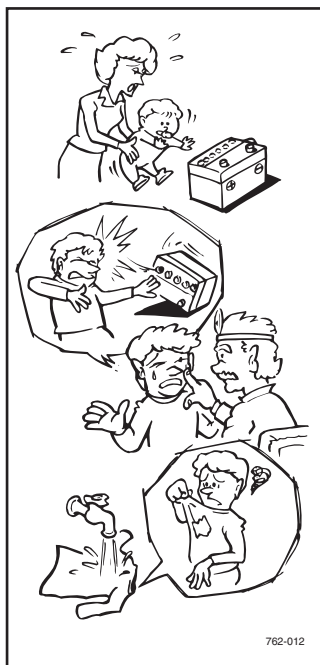
NOTICE

- Be sure the economy control switch is turned off while charging the battery.
- Be sure to connect the red battery charger lead to the positive (+) battery terminal, and connect the black lead to the negative (–) battery terminal. Do not reverse these positions.
- Connect the battery charger leads to the battery terminals securely so that they are not disconnected due to engine vibration or other disturbances.
- Charge the battery in the correct procedure by following instructions in the owner's manual for the battery.
- The DC protector turns off automatically if current above the rated flows during battery charging.

To restart charging the battery, turn the DC protector on by pressing its button to “ I” (RESET). If the DC protector turns off again, stop charging the battery immediately and consult a Yamaha dealer.

TIP

- Follow instructions in the owner's manual for the battery to determine the end of battery charging.
 - Measure the specific gravity of electrolyte to determine if the battery is fully charged. At full charge, the electrolyte specific gravity is between 1.26 and 1.28.
 - It is advisable to check the specific gravity of the electrolyte at least once every hour to prevent overcharging the battery.
-



! 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.**

Operating range of DC power supply (Exclusively for charging 12 V battery)

This power source is designed to charge batteries up to 40 Ah that are half-discharged. Do not charge batteries of a higher capacity than 40 Ah.

12 V battery

The time required for recharging a battery varies depending on the discharge level of the battery. When the specific gravity of the battery reaches 1.26 to 1.28, charging is complete. When charging, check the battery's specific gravity once an hour.

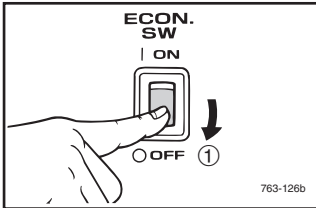
The average time for charging a half-discharged 40 Ah battery is approximately 5 hours. Be sure to check the battery fluid level before charging.

NOTICE

- **Do not connect any load to the battery or use the engine starter motor while charging. This causes high current to flow through the generator which will burn out the coil.**
- **Do not connect a VRLA (Valve Regulated Lead Acid) battery. To charge a VRLA battery, a special (constant-voltage) battery charger is required.**

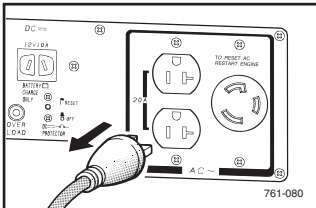
Stopping the engine

1. Turn off any electric devices.

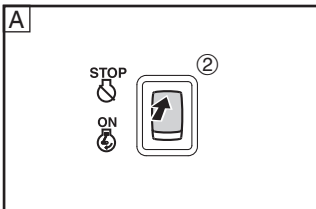


2. Turn the economy control switch to “○” (OFF) .

① “○” (OFF)



3. Disconnect any electric devices.

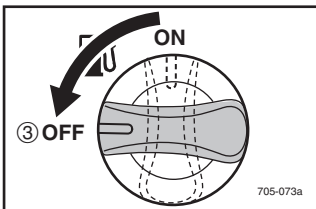
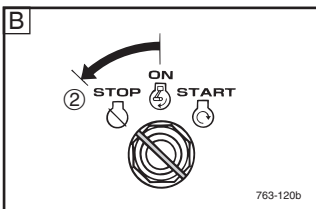


4. Turn the engine switch to “⏻” (STOP).

② “⏻” (STOP)

A EF3000iS

B EF3000iSE, EF3000iSEB



5. Turn the fuel cock lever to OFF.

③ OFF

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 information.

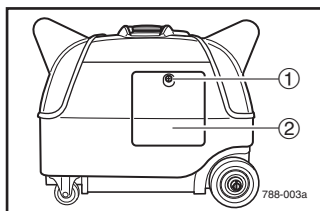
| Item | Routine | Pre-operation check | Every | |
|--------------------|--|---------------------|--------------------|---------------------|
| | | | 6 months or 100 Hr | 12 months or 300 Hr |
| Spark plug | <ul style="list-style-type: none"> • Check condition. • Clean and replace if necessary. | | ○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

| Item | Routine | Pre-operation check | Every | |
|--|--|---------------------|--------------------|---------------------|
| | | | 6 months or 100 Hr | 12 months or 300 Hr |
| Crankcase breather hose | <ul style="list-style-type: none"> • Check breather hose for cracks or damage. • Replace if necessary. | | | ○ |
| Cylinder head | <ul style="list-style-type: none"> • Decarbonize cylinder head. • More frequently if necessary. | After every 500 Hrs | | |
| Valve clearance | • Check and adjust when engine is cold. | | | ★ |
| Idle speed | • Check and adjusting idle speed. | | | ★ |
| Recoil starter | • Check recoil starter for damage. | | | ★ |
| Fittings / fasteners | <ul style="list-style-type: none"> • Check all fittings and fasteners. • Correct if necessary. | | | ★ |
| The point where abnormality was recognized by use. | | ○ | | |

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

*2The 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.



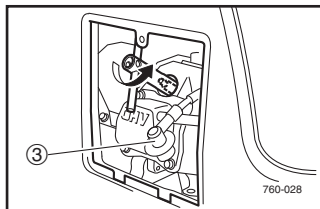
Spark plug inspection

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

1. Remove the screw and the cover.

① Screw

② Cover



2. Remove the spark plug cap and the spark plug.

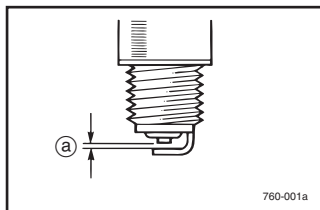
③ Spark plug cap

3. 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.

4. Check the spark plug type and gap.

Ⓐ 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.

5. Install the spark plug, and then tighten it.

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.

6. Install the spark plug cap.

7. Install the cover and the screw.

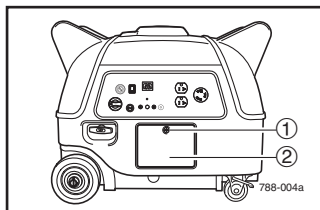
Carburetor adjustment

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

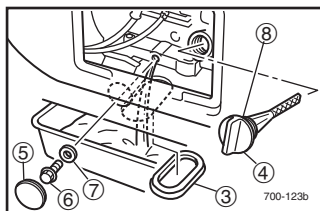


Avoid draining the engine oil immediately after stopping the engine. The oil is hot and should be handled with care to avoid burns.



1. Place the generator on a level surface and warm up the engine for several minutes. Then stop the engine.
2. Remove the screw and the cover.

- ① Screw
- ② Cover



3. Remove the rubber cap and the oil filler cap.

- ③ Rubber cap
- ④ Oil filler cap

4. Place an oil pan under the engine. Remove the cap, the oil drain bolt and the gasket so that the oil can be completely drained.

- ⑤ Cap
- ⑥ Oil drain bolt
- ⑦ Gasket

5. Check the oil drain bolt, the oil filler cap and the O-ring.
Replace them if damaged.

- ⑧ O-ring

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

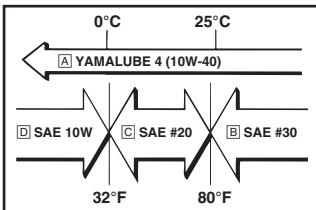
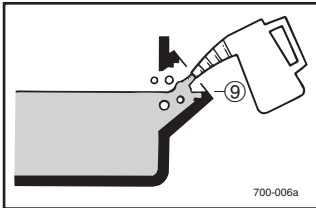
Oil drain bolt tightening torque:
17 Nm (1.7 m·kgf, 12 ft·lbf)

7. Add engine oil to the correct level.

- ⑨ Correct level

NOTICE

Be sure no foreign material enters the crankcase.



Recommended engine oil:

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

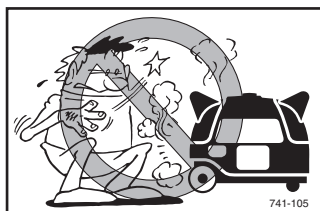
Recommended engine oil grade:

API Service SE type or higher

Engine oil quantity:

0.6 L (0.63 US qt, 0.53 Imp qt)

8. Install the oil filler cap, the rubber cap and the cap.
9. Install the cover and the screw.

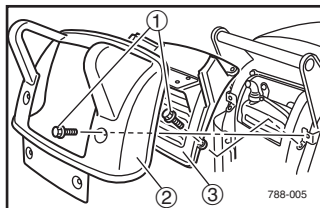


Muffler screen and spark arrester

WARNING

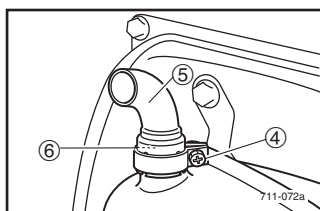
The engine and the muffler will be very hot after the engine has been run.

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



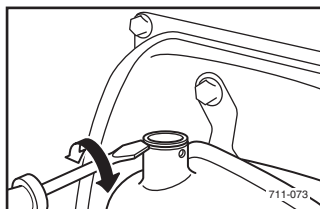
1. Remove the bolts, the cover and the heat-protection cover.

- ① Bolt
- ② Cover
- ③ Heat-protection cover

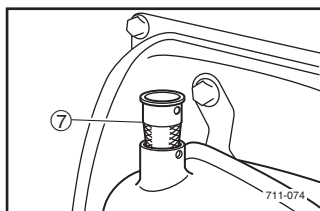


2. Loosen the bolt, and then remove the muffler cap and the muffler screen.

- ④ Bolt
- ⑤ Muffler cap
- ⑥ Muffler screen

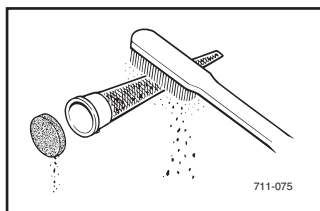


3. Use a flathead screw driver to pry the spark arrester out from the muffler.



4. Remove the spark arrester.

- ⑦ Spark arrester



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

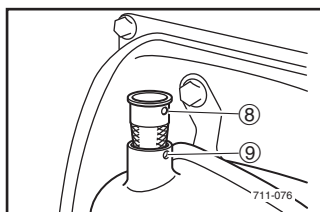
NOTICE

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 the spark arrester. Replace them if damaged.
7. Install the spark arrester.

TIP

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

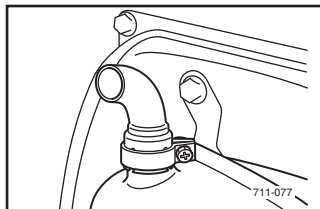


- ⑧ Spark arrester projection
- ⑨ Hole

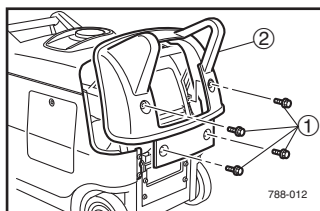
8. Install the muffler screen and the muffler cap, and then tighten the bolt.

Muffler cap bolt tightening torque:
3.5 Nm (0.35 m·kgf, 2.5 ft·lbf)

9. Install the heat-protection cover and the cover, and then tighten the bolts.



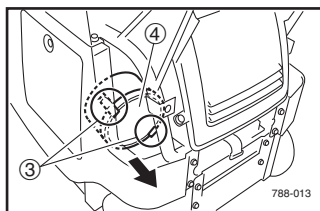
Cover bolt tightening torque:
7 Nm (0.7 m·kgf, 5.1 ft·lbf)



Air filter

1. Remove the bolts and the cover.

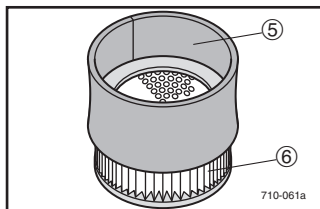
- ① Bolt
- ② Cover



2. Remove the clips holding the air filter case cover.
3. Remove the air filter case cover and the air filter element.

③ Clip

④ Air filter case cover



4. Remove the foam element from the air filter element frame.

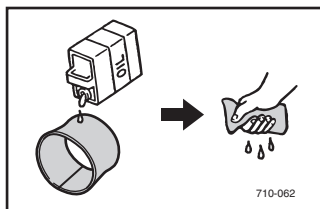
⑤ Foam element

⑥ Air filter element frame

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

WARNING

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



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

NOTICE

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

Recommended oil:

Foam-air-filter oil or engine oil (See page 33)

7. Pull the foam element over the air filter element frame.
8. Install the air filter element into the air filter case.

NOTICE

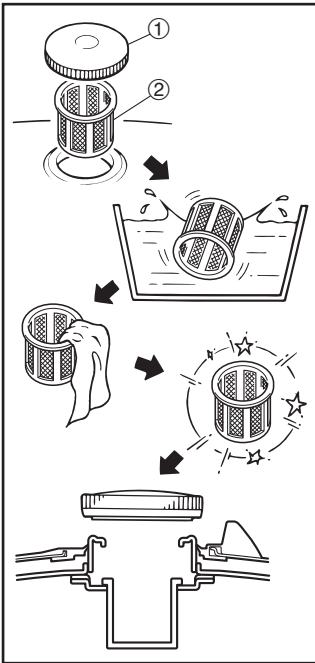
The engine should never run without the air filter element; excessive piston and cylinder wear may result.

TIP

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

9. Install the air filter case cover in its original position and install the clips.
10. Install the cover and tighten the bolts.

Cover bolt tightening torque:
7 Nm (0.7 m·kgf, 5.1 ft·lbf)



Fuel tank filter

WARNING

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

1. Remove the fuel tank cap and the 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 (For EF3000iSE, EF3000iSEB)

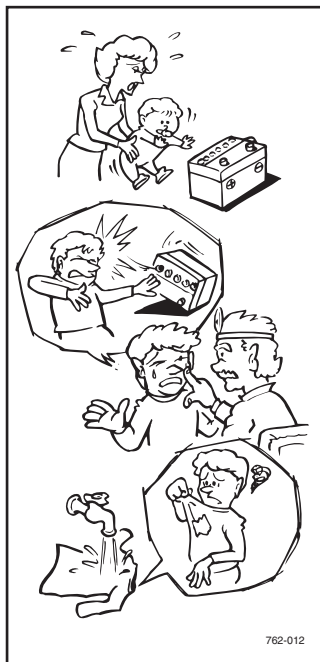
This generator is equipped with a VRLA (Valve Regulated Lead Acid) battery. There is no need to check the electrolyte or to add distilled water.

To charge the battery

Have a Yamaha dealer charge the battery as soon as possible if it seems to have discharged.

NOTICE

To charge a VRLA battery, a special (constant-voltage) battery charger is required. Using a conventional battery charger will damage the battery. If you do not have access to a constant-voltage battery charger, have a Yamaha dealer charge your battery.



! 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.**

Recommended battery

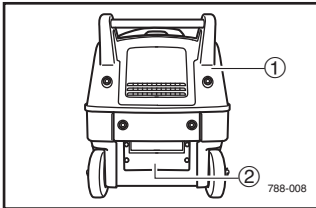
Recommended battery:
Capacity: 12 V/10 Ah

Fuse replacement (For EF3000iSE, EF3000iSEB)



WARNING

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

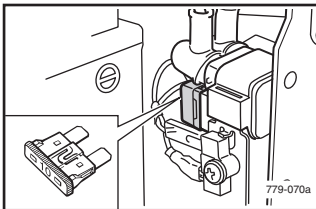


NOTICE

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

1. Remove the cover and the battery box.

- ① Cover
- ② Battery box



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

Specified fuse: 10 A

TIP

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

3. Install the battery box and the cover.

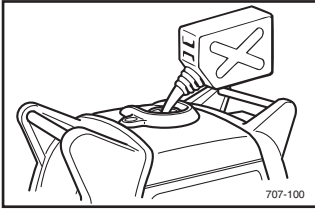
Battery box bolt tightening torque:

7 Nm (0.7 m-kgf, 5.1 ft-lbf)

Cover bolt tightening torque:

7 Nm (0.7 m-kgf, 5.1 ft-lbf)

TROUBLESHOOTING



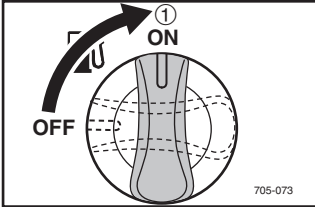
Engine won't start

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

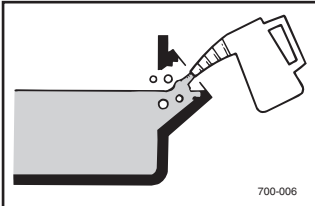
- Clogged fuel line Clean fuel line.
- Clogged carburetor Clean carburetor.



2. Engine oil system

Insufficient

- Oil level is low Add engine oil.



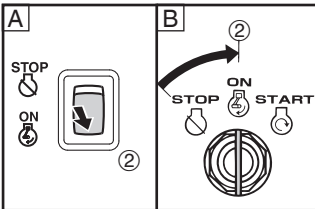
3. Electrical systems

- Engine switch to "②" (ON).

② "②" (ON)

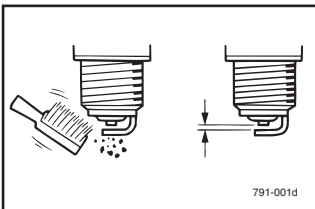
A EF3000iS

B EF3000iSE, EF3000iSEB



Poor spark

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



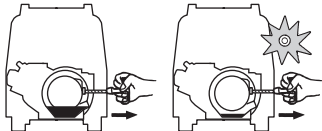
Generator won't produce power

- Safety device (AC) to OFF Stop the engine, then restart.
- Safety device (DC protector) to "■ ○" (OFF) Press to "■ I" (RESET) the DC protector.

| | |
|---|-----------------------|
| A | ENGINE DOES NOT START |
|---|-----------------------|



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



| | | | |
|---|------------------|---|----------|
| C | Does not flicker | D | Flickers |
|---|------------------|---|----------|



| | |
|---|---|
| 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 away 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 |
|---|----|---|----------------|



| | | | |
|---|---|---|---------|
| N | Check the following. | O | Clogged |
| | <ul style="list-style-type: none"> • Fuel line clogging • Air filter element clogging | P | OK |



| | | | |
|--------------------------|-------------------------|-----------------|-----------|
| E | Check engine oil level. | | |
| | | | |
| F | OK | G | Level low |
| Consult a Yamaha dealer. | | Add engine oil. | |

| | | | |
|--|-----------------------|-----------------------|----|
| K | Check the spark plug. | | |
| <ul style="list-style-type: none"> • 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. | |

| | | | |
|---|-------------------|---|------------------------|
| Q | Clean or replace. | R | OK |
| | | S | Engine does not start. |




| | |
|---|--------------------------|
| T | Consult a Yamaha dealer. |
|---|--------------------------|

STORAGE

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

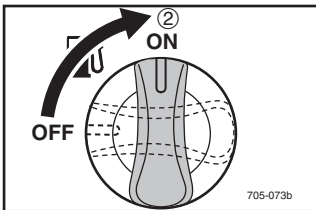
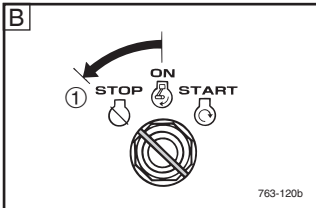
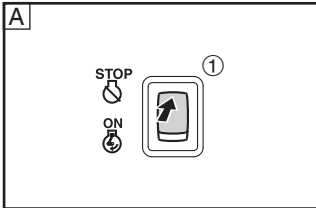
Drain the fuel

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

① “” (STOP)

A EF3000iS

B EF3000iSE, EF3000iSEB



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 fuel cock lever to ON.

② ON

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

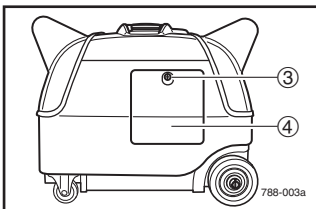
TIP

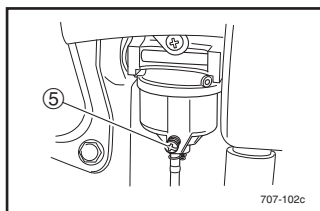
- Do not connect with any electrical devices. (unloaded operation)
- Duration of the running engine depends on the amount of the fuel left in the tank.

5. Remove the screw, and then remove the cover.

③ Screw

④ Cover





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

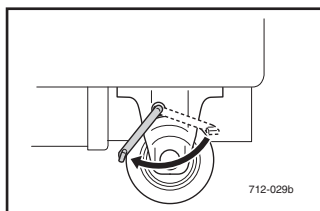
⑤ Drain screw

7. Tighten the drain screw.
8. Turn the engine switch to "⊗" (STOP).
9. Turn the fuel cock lever to OFF.
10. Install the cover and tighten the screw.
11. Tighten further if any screws, bolts and nuts are loose.
12. Store the generator in a dry, well-ventilated place, with the cover placed over it.

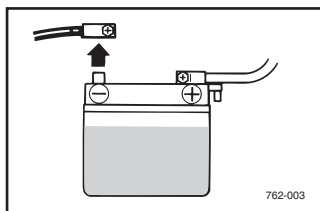
Engine

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

1. Remove the spark plug, pour about one tablespoon of engine oil (See page 33) 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.



6. The caster lock lever should be in the LOCK position when stored or operated.



Battery (For EF3000iSE, EF3000iSEB)

1. Remove the battery.
2. Store the battery in a cool, dark and dry place and charge it once a month.

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



WARNING

- **Disconnect the negative lead (black) first, then the positive lead (red) from the battery.**
- **Connect the positive lead (red) first, then the negative lead (black) to the battery when installing the battery.**

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 Ventilation) | PCV (Positive Crankcase |
| • AIR FILTER ASSY. ARRESTER, SPARK | ACL (Air Cleaner) |

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.

SPECIFICATIONS

Dimensions

| | Unit | EF3000iS | EF3000iSE | EF3000iSEB |
|----------------|---------|------------|------------|------------|
| Overall length | mm (in) | 680 (26.8) | | |
| Overall width | mm (in) | 445 (17.5) | | |
| Overall height | mm (in) | 555 (21.9) | | |
| Dry weight | kg (lb) | 62 (136.6) | 69 (152.1) | 71 (156.5) |

Engine

| | Unit | EF3000iS | EF3000iSE | EF3000iSEB |
|----------------------|---------------------|----------------------------------|-----------|------------|
| Type | | Air cooled 4-stroke gasoline OHV | | |
| Cylinder arrangement | | Inclined, 1 cylinder | | |
| Displacement | cm ³ | 171 | | |
| Bore × Stroke | mm (in) | 66.0 × 50.0 (2.60 × 1.97) | | |
| Operation hours *1 | Hr | 7.8–18.6 | | |
| Fuel | | Unleaded gasoline | | |
| Fuel tank capacity | L (US gal, Imp gal) | 13.0 (3.43, 2.86) | | |
| Engine oil quantity | L (US qt, Imp qt) | 0.6 (0.63, 0.53) | | |
| Ignition system | | TCI | | |
| Spark plug: Type | | BPR4ES (NGK) | | |
| Gap | mm (in) | 0.7–0.8 (0.028–0.031) | | |
| Noise level *2 | dB / LWA | 85.5 | | |
| | dB (A) / 7 m | 54.5–61.0 | | |

*1: The operation hours with the economy control switch is turned to “ON”.

*2: Noise level is measured when the economy control switch is turned to “ON”.

LWA shows the sound power level under the ISO3744 satisfied test conditions.

The noise level in “dB (A) / 7 m” is the arithmetic mean value in four directions measured 7 meters away from each side of the generator.

The noise level may vary in different environments.

Generator

| | Unit | EF3000iS | EF3000iSE | EF3000iSEB |
|---------------------|------|--------------|-----------|------------|
| AC Output | | | | |
| rated voltage | V | 120 | | |
| Rated frequency | Hz | 60 | | |
| Rated current | A | 23.3 | | |
| Rated output | kVA | 2.8 | | |
| Safety device: Type | | Electronic | | |
| DC Output | | | | |
| Rated voltage | V | 12 | | |
| Rated current | A | 12 | | |
| Safety device: Type | | DC protector | | |

CONSUMER INFORMATION

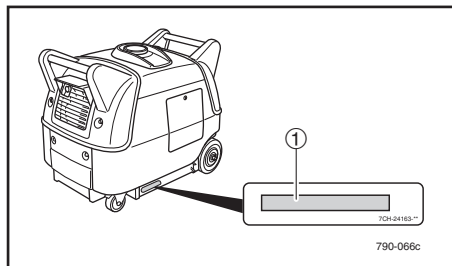
PRI-I.D. NUMBER

| | | |
|--------------------------|----------------------|----------------------|
| | MODEL | |
| | <input type="text"/> | |
| PRI-I.D. CODE | | SERIAL No. |
| <input type="text"/> | | <input type="text"/> |

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.

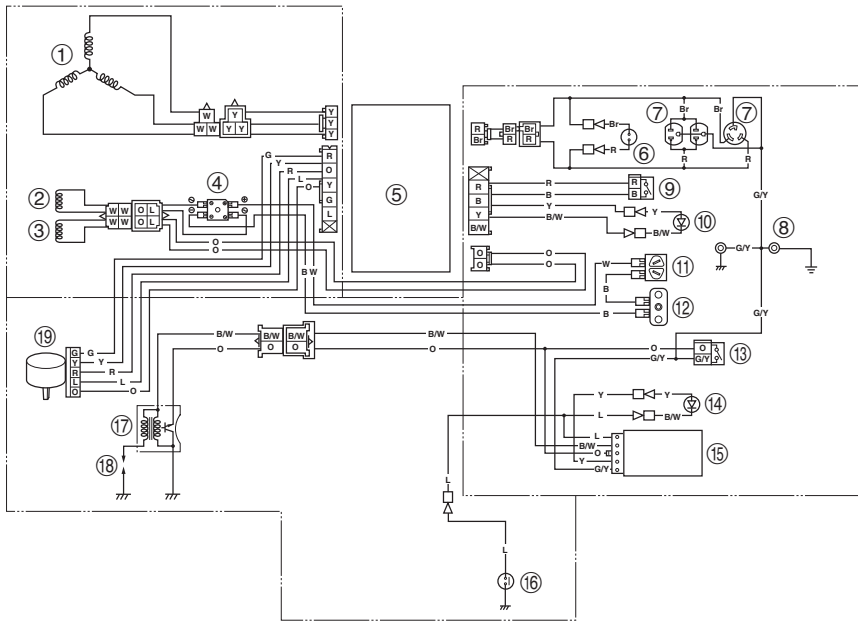
① Machine serial number

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.

WIRING DIAGRAM

EF3000iS

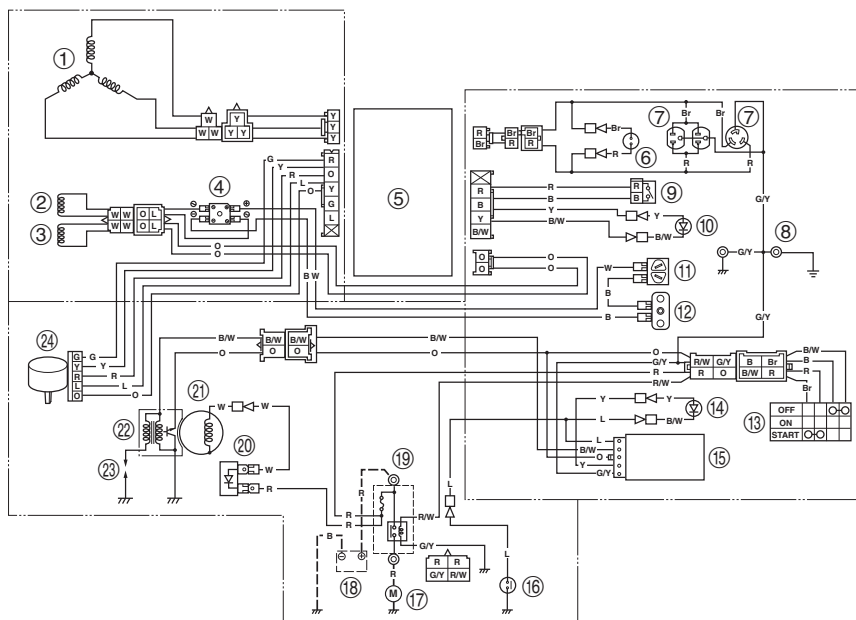


- ① Main coil
- ② Sub coil
- ③ DC coil
- ④ DC rectifier
- ⑤ Control unit
- ⑥ AC pilot light
- ⑦ AC receptacle
- ⑧ Ground (earth) terminal
- ⑨ Economy control switch
- ⑩ Overload indicator light
- ⑪ DC receptacle
- ⑫ DC protector
- ⑬ Engine switch
- ⑭ Oil warning light
- ⑮ Speed limiter assembly
- ⑯ Oil level gauge
- ⑰ TCI unit
- ⑱ Spark plug
- ⑲ Stepping motor

Color code

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

EF3000iSE

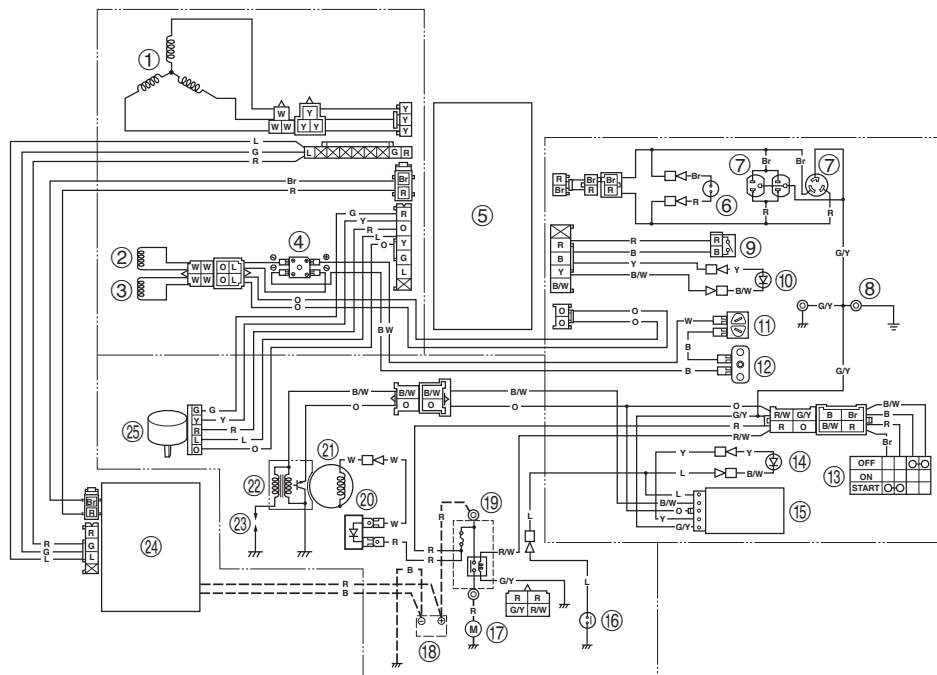


- | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|------------|----------------|----------------|------------------|-----------------|---------------------------|--------------------------|----------------------------|-----------------|----------------|-----------------|---------------------|--------------------------|-------------------|-----------------|-----------|-----------------|-------------|---------------|------------|--------------|------------------|
| ① Main coil | ②③ DC coil | ④ DC rectifier | ⑤ Control unit | ⑥ AC pilot light | ⑦ AC receptacle | ⑧ Ground (earth) terminal | ⑨ Economy control switch | ⑩ Overload indicator light | ⑪ DC receptacle | ⑫ DC protector | ⑬ Engine switch | ⑭ Oil warning light | ⑮ Speed limiter assembly | ⑯ Oil level gauge | ⑰ Starter motor | ⑱ Battery | ⑲ Starter relay | ⑳ Rectifier | ㉑ TCI magneto | ㉒ TCI unit | ㉓ Spark plug | ㉔ Stepping motor |
|-------------|------------|----------------|----------------|------------------|-----------------|---------------------------|--------------------------|----------------------------|-----------------|----------------|-----------------|---------------------|--------------------------|-------------------|-----------------|-----------|-----------------|-------------|---------------|------------|--------------|------------------|

Color code

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

EF3000iSEB



- | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|------------|----------------|----------------|------------------|-----------------|---------------------------|--------------------------|----------------------------|-----------------|----------------|-----------------|---------------------|--------------------------|-------------------|-----------------|-----------|-----------------|-------------|---------------|------------|--------------|-------------------|------------------|
| ① Main coil | ②③ DC coil | ④ DC rectifier | ⑤ Control unit | ⑥ AC pilot light | ⑦ AC receptacle | ⑧ Ground (earth) terminal | ⑨ Economy control switch | ⑩ Overload indicator light | ⑪ DC receptacle | ⑫ DC protector | ⑬ Engine switch | ⑭ Oil warning light | ⑮ Speed limiter assembly | ⑯ Oil level gauge | ⑰ Starter motor | ⑱ Battery | ⑲ Starter relay | ⑳ Rectifier | ㉑ TCI magneto | ㉒ TCI unit | ㉓ Spark plug | ㉔ DC-DC converter | ㉕ Stepping motor |
|-------------|------------|----------------|----------------|------------------|-----------------|---------------------------|--------------------------|----------------------------|-----------------|----------------|-----------------|---------------------|--------------------------|-------------------|-----------------|-----------|-----------------|-------------|---------------|------------|--------------|-------------------|------------------|

Color code

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

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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