YAMAHA

Generator

OWNER'S MANUAL

⚠ Read this manual carefully before operating this machine.

EF2000iS

LIT-19626-01-68
7DK-28199-11

⚠ 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.

AE00002

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.

AE00022

EF2000iS
OWNER'S MANUAL
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1st Edition, February 2011
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Printed in Japan
P/N LIT-19626-01-68

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.

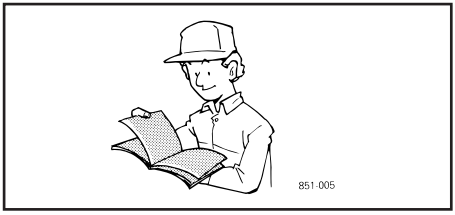
⚠ WARNING

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.



AE00032

⚠ 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.

AE00041

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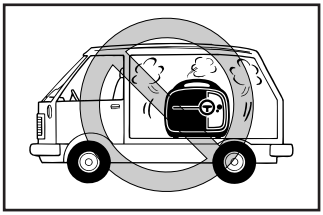
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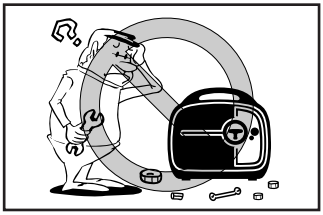
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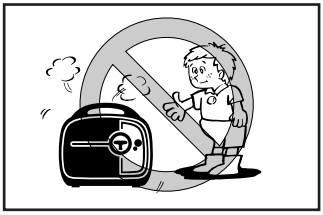
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SAFETY INFORMATION

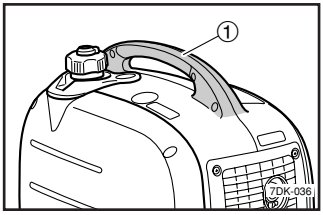
- This generator is not designed for on-board use. Do not use it while installed on the vehicle.



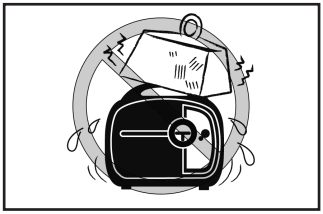
- Do not modify the generator or use it with its parts removed.



- Do not allow children to operate the generator.



- Be sure to carry the generator only by its carrying handle ①.



- Do not place any obstacles on the generator.



AE00072

EXHAUST FUMES ARE POISONOUS

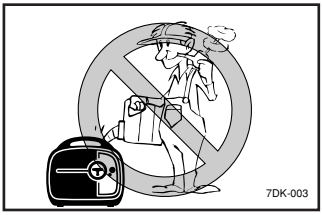
- Never operate the engine in a closed area or it may cause unconsciousness and death within a short time. Operate the engine in a well ventilated area.



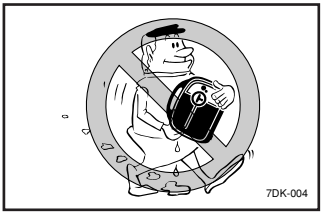
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FUEL IS HIGHLY FLAMMABLE AND POISONOUS

- Always turn off the engine when refuelling.
- Never refuel while smoking or in the vicinity of an open flame.



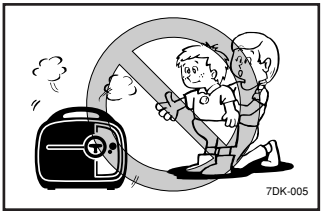
- Take care not to spill any fuel on the engine or muffler when refueling.
- Do not leave the generator inside the vehicle or in the trunk.



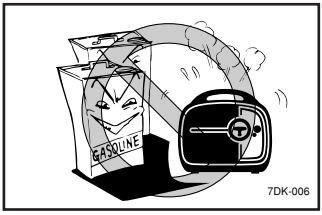
- If you swallow any fuel, inhale fuel vapor, or allow any to get in your eye(s), see your doctor immediately. If any fuel spills on your skin or clothing, immediately wash with soap and water and change your clothes.
- When operating or transporting the machine, be sure it is kept upright. If it tilts, fuel may leak from the carburetor or fuel tank.

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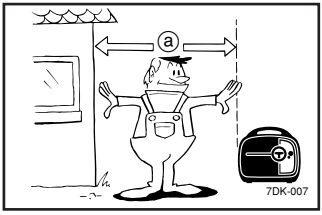
ENGINE AND MUFFLER MAY BE HOT



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

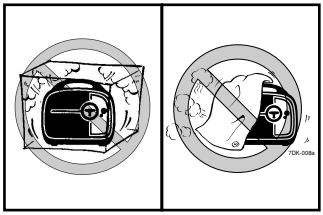


- Avoid placing any flammable materials near the exhaust outlet during operation.

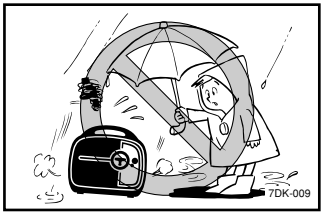


- Keep the machine at least 1 m (3 ft) from buildings or other equipment, or the engine may overheat.

ⓐ 1 m (3 ft)



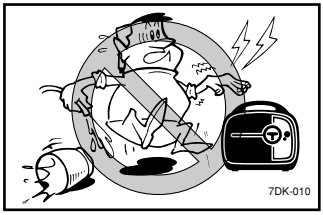
- Do not operate the engine with a dust cover or other objects covering it.
- When covering the generator, be sure to do so only after the engine and muffler have completely cooled down.



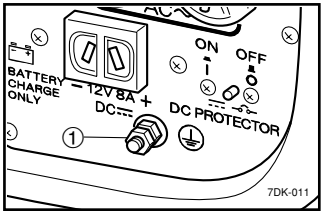
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ELECTRIC SHOCK PREVENTION

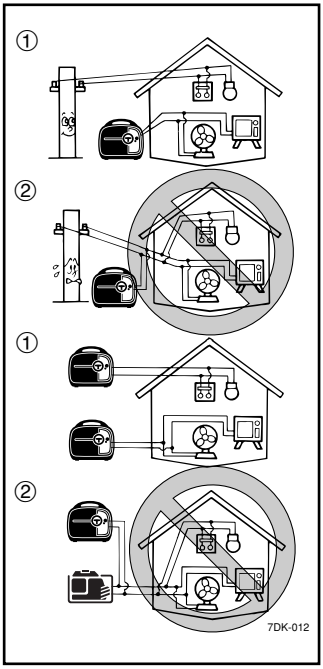
- Never operate the engine in rain or snow.



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



- Connect the ground lead of the machine to the ground (earth) terminal ① and connect the end to the ground electrode buried in the ground.



AE00088

CONNECTION NOTES

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

① Correct
② Incorrect

AE00091

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.

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EXTENSION CORD NOTES

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

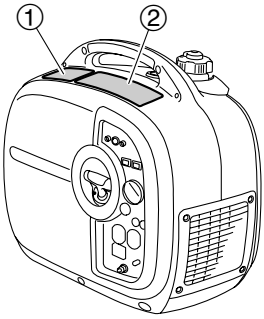
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LOCATION OF IMPORTANT LABELS

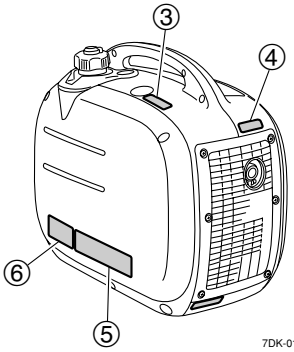
Please read the following labels carefully before operating this machine.

TIP

Maintain or replace safety and instruction labels, as necessary.



7DK-013



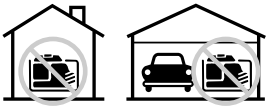
7DK-014

①

⚠ 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.

②

⚠ 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.
- Electrocution can occur if generator is used in rain, snow, or near water. Keep this unit dry at all times.
- Electrocution or property damage can occur: Do not connect this generator to any building's electrical system unless an isolation switch has been installed by a licensed electrician. Refer to the owner's manual.
- 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.

7DK-24162-10

③

NOTICE

Use the specified spark plug only.

Specified plug:BPR6HS(NGK)

④

HOT EXHAUST

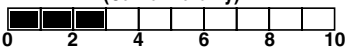
7WL-28176-10

⑤

EMISSION CONTROL INFORMATION
YAMAHA MOTOR POWERED PRODUCTS CO.,LTD.
This engine meets 20 California exhaust and evaporative emission regulations for small off-road engines.**
THIS ENGINE MEETS U.S. EPA EXH/EVP REGS FOR 20.**

EMISSION COMPLIANCE PERIOD : * HOURS**
EF: ******** DISPLACEMENT: *** cc**
EVAP F: ****** EMISSION CONTROL SYSTEM: ****
This engine is certified to operate on unleaded gasoline.
ENGINE OIL: SAE*** TYPE : ****
No other adjustments needed.

The air index of this engine is 3
(California only)

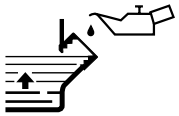


MOST CLEAN **LEAST CLEAN**

Note: The lower the air index, the less the pollution.
This engine is certified to be emissions compliant for the following use:
☐ **MODERATE (*** HOURS)** ☐ **INTERMEDIATE (*** HOURS)** ☒ **EXTENDED (*** HOURS)**
Check owner's manual for further details.

⑥

OIL



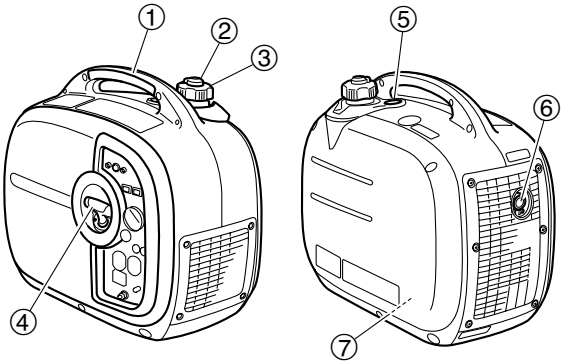
7DK-24164-10

YAMAHA EF2000IS

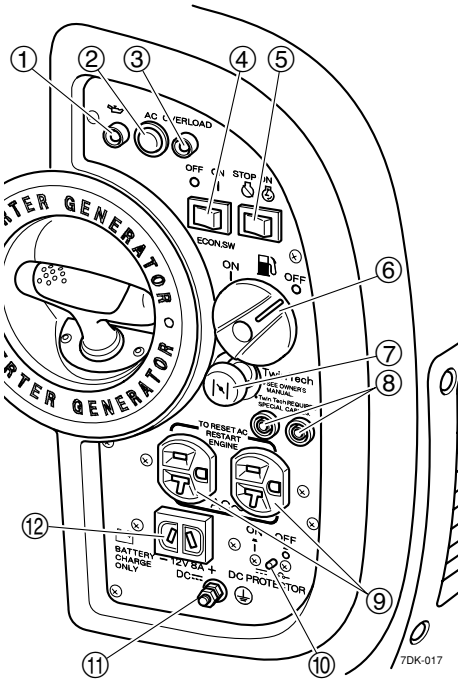
AC output	60Hz
Rated	1.6kVA
	120V
Phase	Single
DC output	12V 8A
Fuel	Gasoline

YAMAHA MOTOR POWERED PRODUCTS CO.,LTD.
MADE IN JAPAN

DESCRIPTION



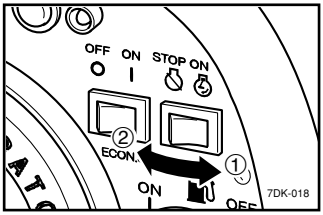
① Carrying handle
② Fuel tank cap air vent knob
③ Fuel tank cap
④ Recoil starter
⑤ Fuel gauge
⑥ Muffler
⑦ Oil filler cap



AE00103

Control panel

① Oil warning light
② AC pilot light
③ Overload indicator light
④ Economy control switch (Black)
⑤ Engine switch (Red)
⑥ Fuel cock knob
⑦ Choke knob
⑧ Twin Tech (parallel running terminal)
⑨ AC receptacle
⑩ DC protector (breaker)
⑪ Ground (earth) terminal
⑫ DC receptacle



AE00101

CONTROL FUNCTION

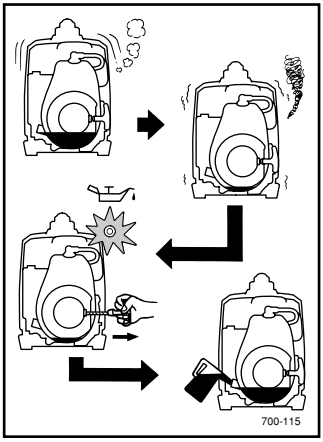
AE00121

Engine switch

The engine switch controls the ignition system.

① “ON”
Ignition circuit is switched on.
The engine can be started.

② “STOP”
Ignition circuit is switched off.
The engine will not run.



AE00111

Oil warning light (Red)

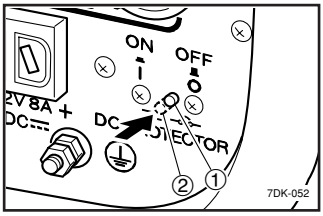
When the oil level falls below the lower level, the oil warning light comes on and then the engine stops automatically. Unless you refill with oil, the engine will not start again.

TIP

If the engine stalls or does not start, turn the engine switch to “ON” 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.

DC protector

The DC protector turns off ② 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 “ON” ①.

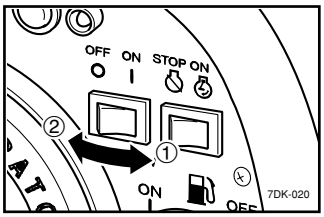


① “ON”
Direct current is output. (This is the default position.)

② “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 off. If the DC protector turns off again, stop using the device immediately and consult a Yamaha dealer.



AE00142

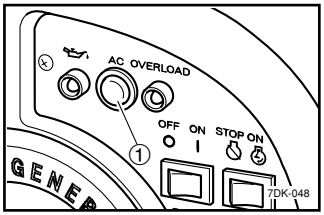
Economy control switch

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

② ○ "OFF"
When the economy control switch is turned to "OFF" ②, the engine runs at the rated r/min (4,500 r/min) regardless of whether is a load connected or not.

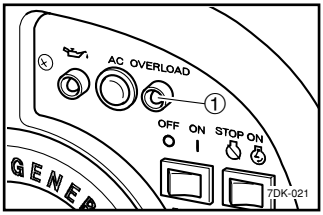
TIP

The economy control switch must be turned to "OFF" ② when using electric devices that require a large starting current, such as a compressor of a submersible pump.



AC pilot light (Green)

The AC pilot light ① comes on when the engine starts and produces power.



AE01087

Overload indicator light (Red)

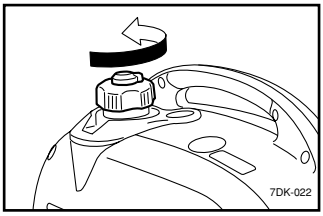
The overload indicator light ① comes on when an overload of a connected electrical device is detected, the inverter control unit overheats, or the AC output voltage rises. Then, the AC protector will trip, stopping power generation in order to protect the generator and any connected electric devices. The AC pilot light (Green) will go off and the overload indicator light (Red) will stay on, but the engine will not stop running.

When the overload indicator light 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.
4. After checking, restart the engine.

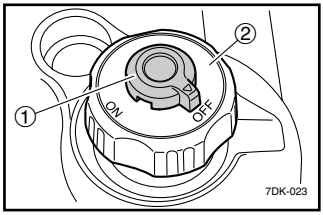
TIP

The overload indicator light 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.



Fuel tank cap

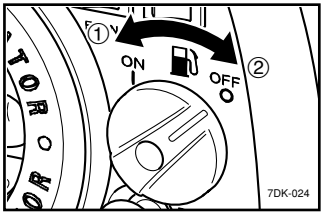
Remove the fuel tank cap by turning it counterclockwise.



Fuel tank cap air vent knob

The fuel tank cap ② is provided with an air vent knob ① to stop fuel flow.

The air vent knob must be turned to “ON”. This will allow fuel to flow to the carburetor and the engine to run. When the engine is not in use, turn the air vent knob to “OFF” to stop fuel flow.



Fuel cock knob

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

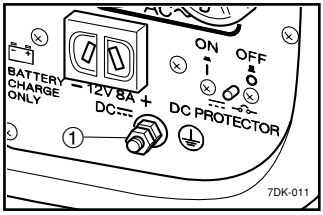
The fuel cock has two positions.

① “ON”

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

② “OFF”

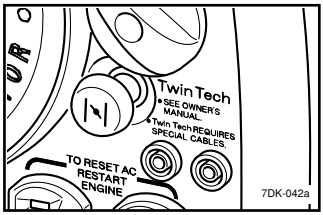
With the knob in this position, fuel will not flow. Always turn the knob to this position when the engine is not running.



Ground (earth) terminal

Ground (earth) terminal ① connects the earth line for prevention of electric shock.

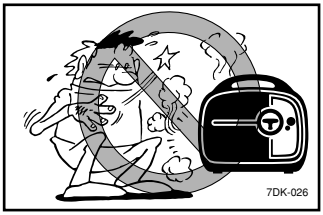
When the electric device is grounded, be sure to ground the generator also.

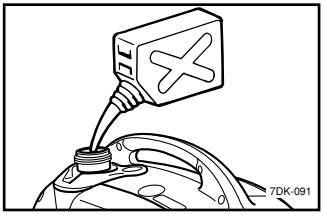


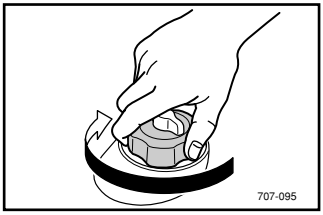
Twin Tech (Terminal for Connecting special cables for parallel running)

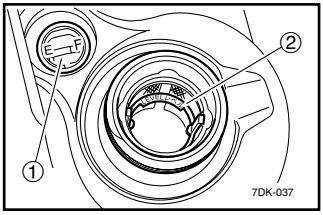
This is the terminal for connecting special cables for parallel running of two EF2000iS. The parallel running requires two EF2000iS and the special cables. (The rated output in parallel running is 3.0 kVA and the rated current is 25.0 A.)

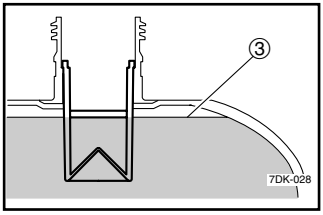
The handling, operation procedure and the notes on usage are described in the PARALLEL RUNNING KIT OWNER’S MANUAL included in the Parallel Running Kit. Consult a Yamaha dealer for this Parallel Running Kit.

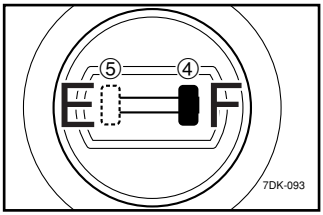












PREPARATION

AE00856

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.**

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.**

Remove the fuel tank cap and fill the fuel into the tank up to the red level ②.
The fuel level in the fuel tank can be checked through the fuel level gauge ①.

① Fuel level gauge
② Red line
③ Fuel level

Recommended fuel:
Unleaded gasoline
Fuel tank capacity:
Total:
4.2 L (1.11 US gal, 0.92 Imp gal)

④ "F"	Full
⑤ "E"	Empty

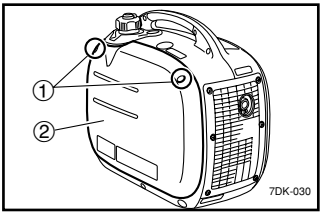
Your Yamaha engine has been designed to use regular unleaded gasoline with a pump octane number ((R + M)/2) of 86 or higher, or research octane number of 91 or higher.

AE00222

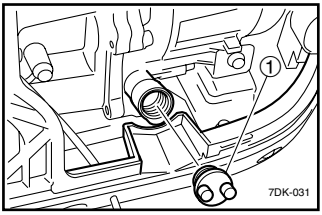
Engine oil

NOTICE

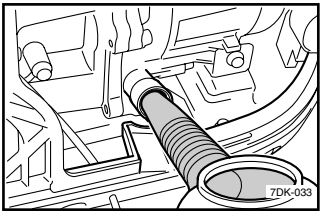
The generator has been shipped without engine oil. Do not start the engine until you have filled it with the sufficient engine oil.



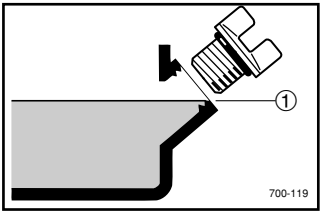
1. Place the generator on a level surface.
2. Remove the screws ①, and then remove the cover ②.



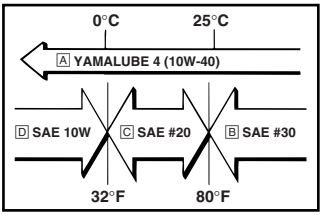
3. Remove the oil filler cap ①.



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



① Upper 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:
0.4 L (0.42 US qt, 0.35 Imp qt)

5. Install the cover and tighten the screws.

AE00845

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 13)

- 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

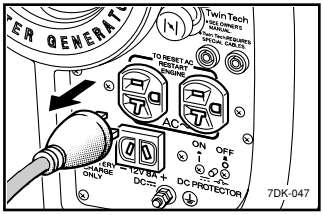
- Check operation.
- If necessary, consult a Yamaha dealer.

AE00846

OPERATION

⚠ WARNING

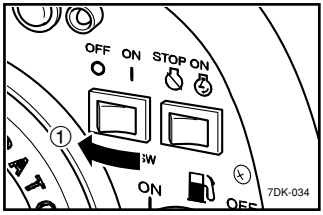
- **Never operate the engine in a closed area or it may cause unconsciousness and death within a short time. Operate the engine in a well ventilated area.**
- **Before starting the engine, do not connect any electric devices.**
- **Clean dusts, dirt or water off the receptacle before use.**



7DK-047

NOTICE

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

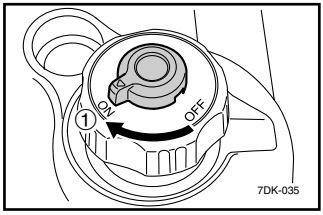


7DK-034

Starting the engine

1. Turn the economy control switch (Black) to "OFF" ①.

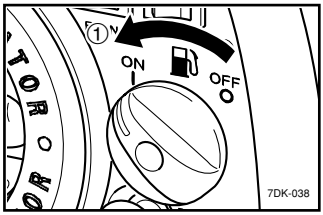
① ○ "OFF"



7DK-035

2. While holding the fuel tank cap so that it will not move, turn the air vent knob to "ON" ①.

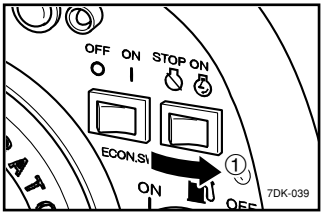
① "ON"



7DK-038

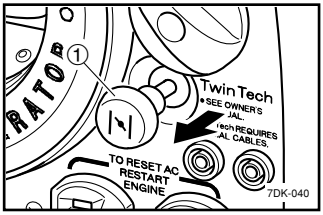
3. Turn the fuel cock knob to "ON" ①.

① "ON"



4. Turn the engine switch (Red) to “ON” ①.

① “ON”

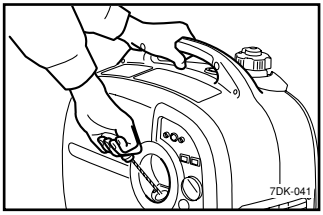


5. Pull the choke knob ① fully out.

① Choke knob

TIP

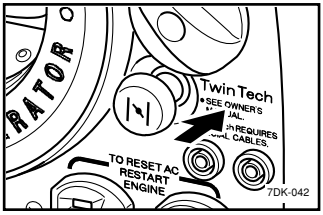
The choke is not required to start a warm engine. Push the choke knob in to the original position.



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

TIP

Grasp the carrying handle firmly to prevent the generator from falling over when pulling the recoil starter.



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

TIP

When starting the engine, with the economy control switch “ON”, and there is no load on the generator:

- in ambient temperature below 0°C (32°F), the engine will run at the rated r/min (4,500 r/min) for 5 minutes to warm up the engine.
- in ambient temperature below 5°C (41°F), the engine will run at the 4,500 r/min for 3 minutes to warm up the engine.

The economy control unit operates normally after the above time period, while the economy control switch is “ON”.

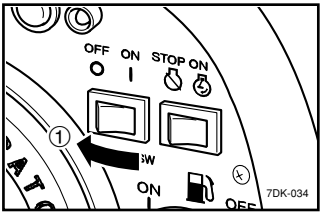
AE01025

Stopping the engine

TIP

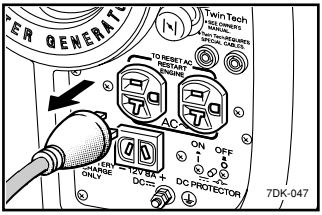
Turn off any electric devices.

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

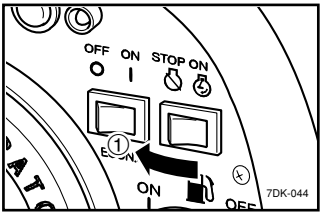


① ○ “OFF”

2. Disconnect any electric devices.

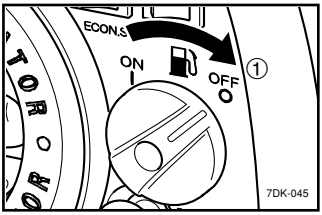


3. Turn the engine switch (Red) to “STOP” ①.



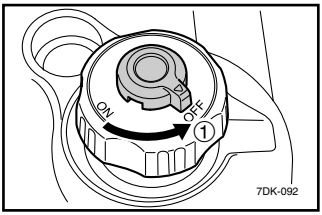
① “STOP”

4. Turn the fuel cock knob to “OFF” ①.



① “OFF”

5. Turn the fuel tank cap air vent knob to “OFF” ① after the engine has completely cooled down.



AE00839

Connection

Alternating Current (AC)

⚠ WARNING

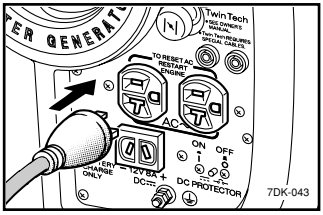
Be sure any electric devices are turned off before plugging them in.

NOTICE

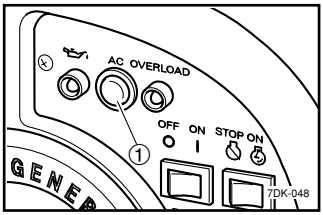
- **Be sure all electric devices including the lines and plug connections are in good condition before connection to the generator.**
- **Be sure the total load is within generator rated output.**
- **Be sure the receptacle load current is within receptacle rated current.**

TIP

Make sure to ground (earth) the generator.
When the electric device is grounded, be sure to ground the generator also.

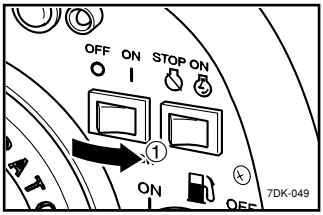


1. Start the engine.
2. Plug in to AC receptacle.



3. Make sure the AC pilot light ① is on.

① AC pilot light



4. Turn the economy control switch to “ON” ①.

① I “ON”

5. Turn on any electric devises.

TIP

The economy control switch must be turned to “OFF” to increase engine speed to rated r/min.

Battery charging

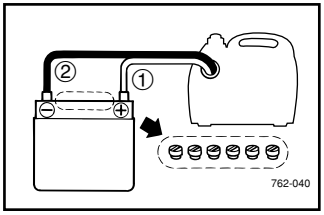
NOTICE

Do not connect a VRLA (Valve Regulated Lead Acid) battery. To charge a VRLA battery, a special (constant-voltage) battery charger is required.

TIP

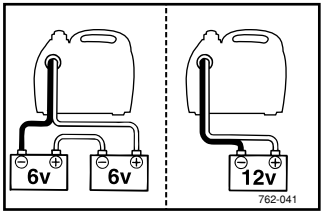
- The generator DC rated voltage is 12V.
- Start the engine first, and then connect the generator to the battery for charging.
- Before starting to charge the battery, make sure that the DC protector is turned on.

1. Start the engine.



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

① Red wire
② Black wire

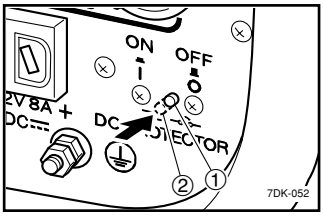


3. Connect the black battery charger lead to the negative (-) battery terminal.

4. Turn the economy control switch off to start battery charging.

NOTICE

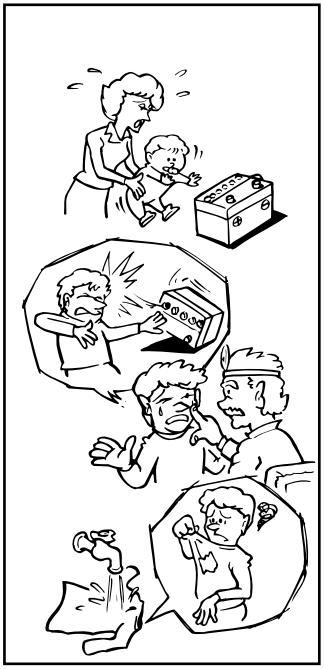
- **Be sure the economy control switch is turned off while charging the battery.**
- **Be sure to connect the red battery charger lead to the positive (+) battery terminal, and connect the black lead to the negative (-) battery terminal. Do not reverse these positions.**
- **Connect the battery charger 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 "ON". If the DC protector turns off again, stop charging the battery immediately and consult a Yamaha dealer.



① "ON"
② "OFF"

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

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

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

Antidote:

EXTERNAL-Flush with water.

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

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

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

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

12V 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 40Ah battery is approximately 5 hours. Be sure to check the battery fluid level before charging.

NOTICE

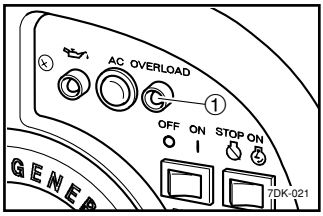
- **Do not connect any load to the battery or use the engine starter motor while charging. This causes high current to flow through the generator which will burn out the coil.**
- **Do not connect a VRLA (Valve Regulated Lead Acid) battery. To charge a VRLA battery, a special (constant-voltage) battery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

AE00812

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)	
EF2000iS	–1,600W	–1,280W	–544W	Rated voltage 12V Rated current 8A



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		1,600VA
Frequency	Power factor	
AC	1.0	–1,500W
	0.8	–1,180W
DC	—	96W (12V/8A)

- The overload indicator light ① comes on when total wattage exceeds the application range. (See page 10 for more details.)

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.**

AE00401

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.

AE00403

Maintenance chart

⚠ WARNING

Stop the engine before starting maintenance work.

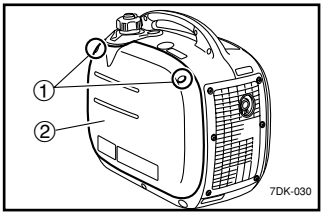
NOTICE

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	• Check condition. • Clean and replace if necessary.		○	
Fuel	• Check fuel level and leakage.	○		
Fuel hose	• Check fuel hose for cracks or damage. Replace if necessary.	○		
Engine oil	• Check oil level in engine.	○		
	• Replace.		○ (*1)	
Air filter element	• Check condition. • Clean.		○ (*2)	
Muffler screen	• Check condition. • Clean and replace if necessary.		○	
Spark arrester	• Check condition. • Clean and replace if necessary.		○	
Fuel filter	• Clean and replace if necessary.			○

Item	Routine	Pre-operation check	Every	
			6 months or 100 Hr	12 months or 300 Hr
Crankcase breather hose	• Check breather hose for cracks or damage. • Replace if necessary.			○
Cylinder head	• Decarbonize cylinder head. • More frequently if necessary.			★
Valve clearance	• Check and adjust when engine is cold.			★
Fittings / fasteners	• Check all fittings and fasteners. • Correct if necessary.			★
The point where abnormality was recognized by use.		○		

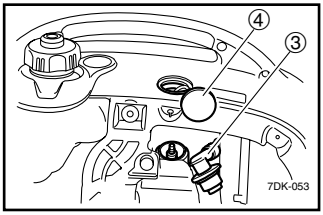
*1····· Initial replacement of the engine oil is after one month or 20 hours of operation.
*2····· The air filter element needs to be cleaned more frequently when using in unusually wet or dusty areas.
★····· Since these items require special tools, data and technical skills, have a Yamaha dealer perform the service.



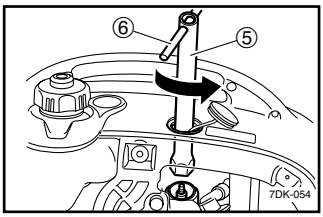
Spark plug inspection

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

1. Remove the screws ①, and then remove the cover ②.

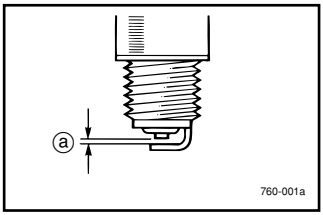


2. Remove the spark plug cap ③ and cap ④, and insert the tool ⑤ through the hole from the outside of the cover.



3. Insert the handlebar ⑥ into the tool ⑤ and turn it counterclockwise to remove the spark plug.

4. 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.



5. Check the spark plug type and gap ⓐ.

Standard spark plug: BPR6HS (NGK) Spark plug gap ⓐ: 0.6–0.7 mm (0.024–0.028 in)

TIP

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

6. Install the spark plug.

Spark plug 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.

7. Install the spark plug cap and cap.
8. Install the cover and tighten the screws.

AE00431

Carburetor adjustment

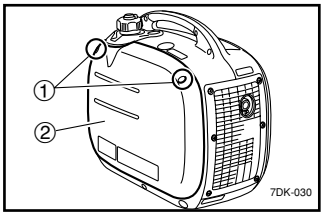
The carburetor is a vital part of the engine. Adjusting should be left to a Yamaha dealer with the professional knowledge, specialized data, and equipment to do so properly.

AE00412

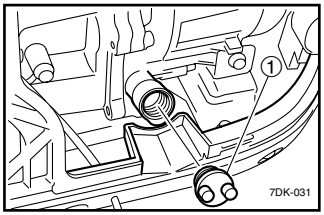
Engine oil replacement

⚠ WARNING

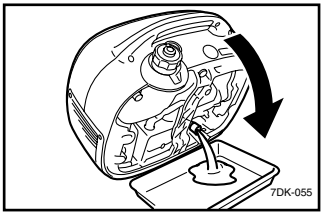
Avoid draining the engine oil immediately after stopping the engine. The oil is hot and should be handled with care to avoid burns.



1. Place the generator on a level surface and warm up the engine for several minutes.
   Then stop the engine and turn the fuel cock knob, fuel tank cap air vent knob to “OFF”.
2. Remove the screws ① and then remove the cover ②.



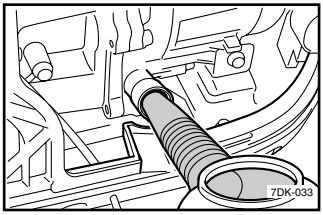
3. Remove the oil filler cap ①.

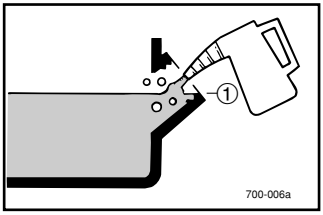


4. Place an oil pan under the engine. Tilt the generator to drain the oil completely.
5. Place the generator on a level surface.

NOTICE

Do not tilt the generator when adding engine oil. This could result in overfilling and damage to the engine.



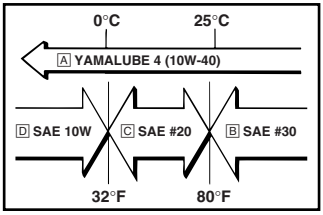


6. Add engine oil to the upper level ①.

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

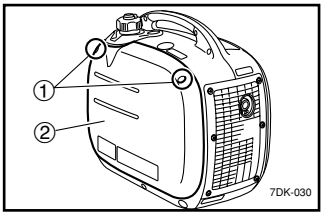
Engine oil quantity:
0.4 L (0.42 US qt, 0.35 Imp qt)



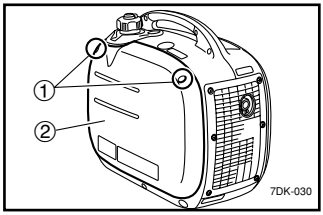
7. Wipe the cover clean, and wipe up any spilled oil.

NOTICE

Be sure no foreign material enters the crankcase.



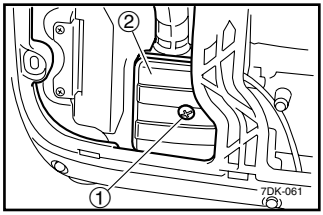
8. Install the oil filler cap.
9. Install the cover ② and tighten the screws ①.



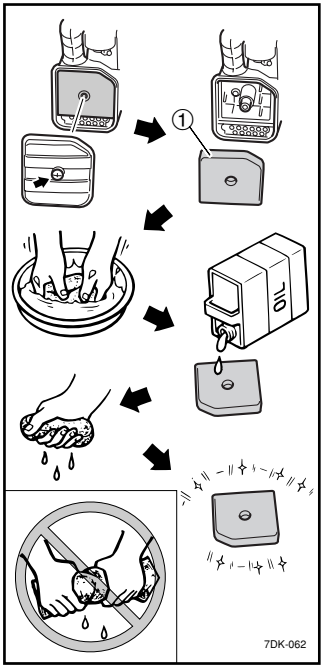
AE01084

Air filter

1. Remove the screws ①, and then remove the cover ②.



2. Remove the screw ① and then remove the air filter case cover ②.



3. Remove the foam element ①.
4. Wash the foam element in solvent and dry it.
5. 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 SAE #20 motor oil

NOTICE

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

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

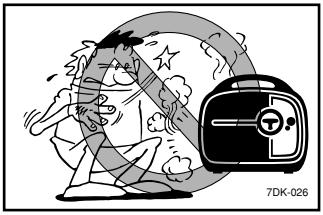
TIP

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

NOTICE

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

7. Install the air filter case cover in its original position and tighten the screw.
8. Install the cover and tighten the screws.

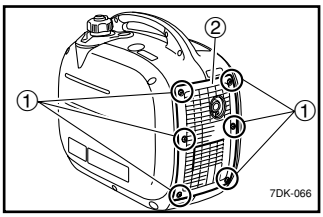


AE01075

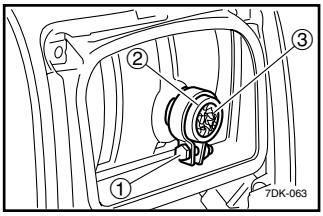
Muffler screen and spark arrester

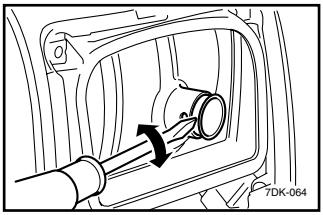
⚠ WARNING

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.

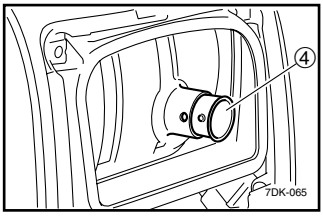


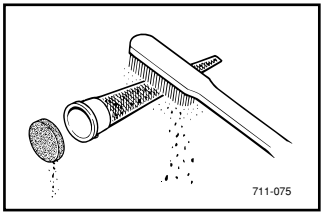
1. Remove the screws ①, and then pull the cover ② outward.





2. Loosen the bolt ① and then remove the muffler cap ②, the muffler screen ③ and spark arrester ④.





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

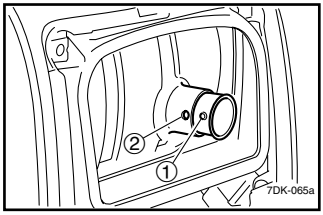
NOTICE

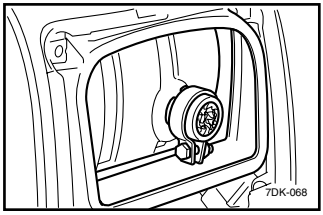
When cleaning, use the wire brush lightly to avoid damaging or scratching of the muffler screen and spark arrester.

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

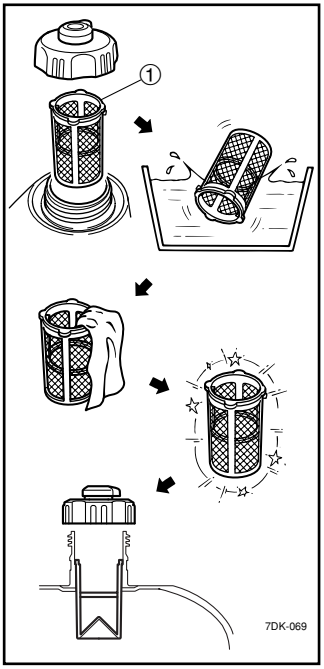
TIP

Align the spark arrester lump ① with the hole ② in the muffler pipe.





6. Install the muffler screen and the muffler cap, and then tighten the bolt.
7. Install the cover and tighten the screws.



AE00471

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 filter ①.
2. Clean the filter with gasoline.
   Replace it if damaged.
3. Wipe the filter and install it.
4. Install the fuel tank cap.

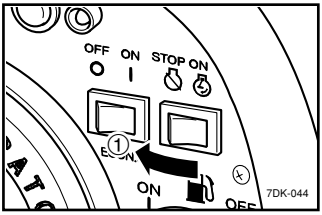
⚠ WARNING

Be sure the fuel tank cap is tightened securely.

AE00601

STORAGE

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



AE01056

Drain the fuel

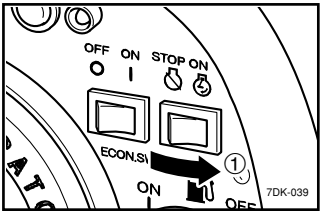
1. Turn the engine switch to “STOP” ①.
2. Remove the fuel tank cap. Extract the fuel from the fuel tank into an approved gasoline container using a commercially available handsiphon. Then, install the fuel tank cap.

⚠ WARNING

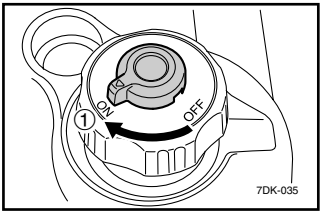
Fuel is highly flammable and poisonous. Check “SAFETY INFORMATION” (See page 2) carefully.

NOTICE

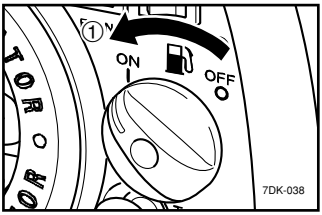
Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.



3. Turn the engine switch to “ON” ①.

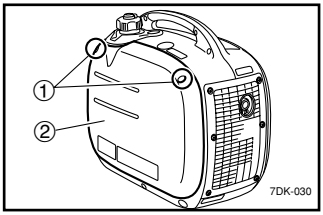


4. Turn the fuel tank cap air vent knob and fuel cock knob to “ON” ①.
5. Start the engine and leave it run until it stops. The engine stops in approx. 20 mins. time by running out of fuel.

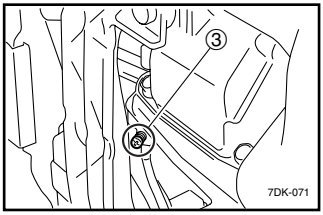


TIP

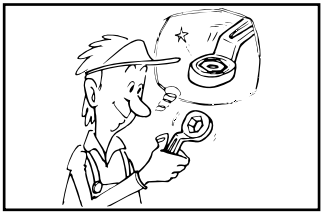
- Do not connect with any electrical devices. (unloaded operation)
- Duration of the running engine depends on the amount of the fuel left in the tank.



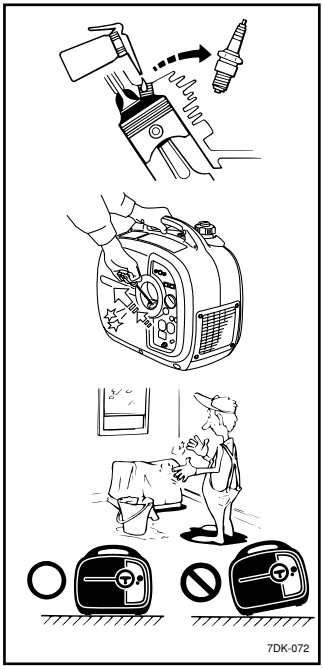
6. Remove the screws ①, and then remove the cover ②.



7. Drain the fuel from the carburetor by loosening the drain screw ③ on the carburetor float chamber.
8. Turn the engine switch to “OFF”.
9. Turn the fuel cock knob to “OFF”.
10. Tighten the drain screw ③.
11. Install the cover and tighten the screws.
12. Turn the fuel tank cap air vent knob to “OFF”.



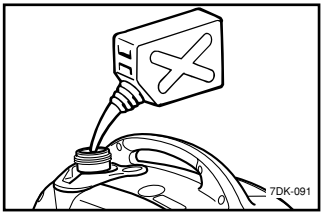
13. Tighten further if any screws, bolts and nuts are loose.
14. Store the generator in a dry, well-ventilated place, with the cover placed over it.

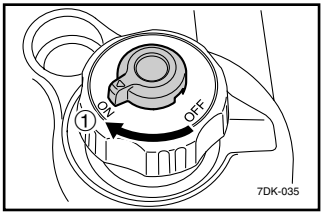


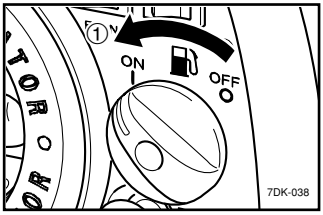
Engine

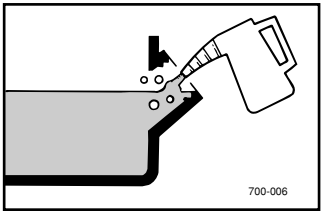
Perform the following steps to protect the cylinder, piston ring, etc. from corrosion.

1. Remove the spark plug, pour about one tablespoon of SAE 10W-30 or 20W-40 motor oil into the spark plug hole and reinstall the spark plug. Recoil start the engine by turning over several times (with ignition off) to coat the cylinder walls with oil.
2. Pull the recoil starter until you feel compression. Then stop pulling. (This prevents the cylinder and valves from rusting).
3. Clean exterior of the generator and apply a rust inhibitor.
4. Store the generator in a dry, well-ventilated place, with the cover placed over it.
5. The generator must remain in a vertical position when stored, carried or operated.









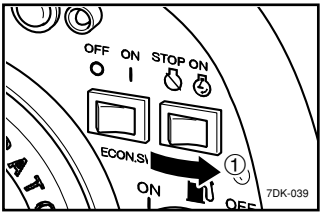
AE00512

TROUBLESHOOTING

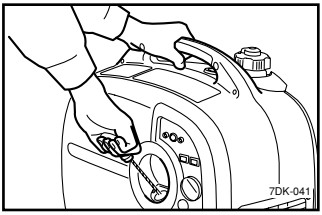
Engine won't start

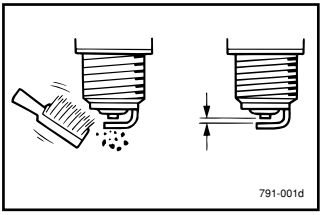
1. Fuel systems
   No fuel supplied to combustion chamber.
   - No fuel in tank .... Supply fuel.
   - Fuel in tank .... Fuel tank cap air vent knob and fuel cock knob to "ON" ①.
   - Clogged fuel line .... Clean fuel line.
   - Clogged carburetor .... Clean carburetor.

2. Engine oil system
   Insufficient
   - Oil level is low .... Add engine oil.

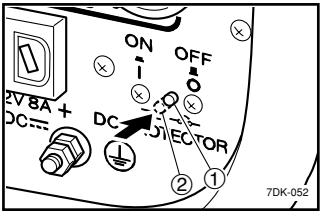


3. Electrical systems
   - Engine switch to “ON” ① and pull the recoil starter.





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



AE00515

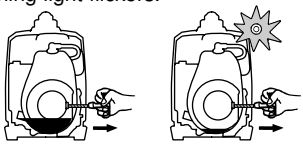
Generator won’t produce power

- Safety device (DC protector) to “OFF” ② ···· Press the DC protector to “ON” ①.
- Safety device (AC) to “OFF” .... Stop the engine, then restart.

AE00515

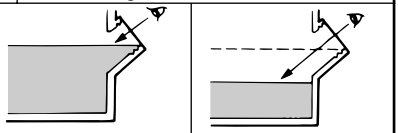
A ENGINE DOES NOT START

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.

E Check engine oil level.



F OK: Consult a Yamaha dealer.

G Level low: Add engine oil.

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

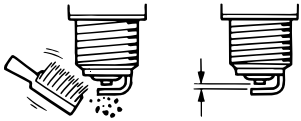


⚠WARNING

- **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 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 Dose not spark

K Check the spark plug.
- Type: BPR6HS
- Gap: 0.6–0.7 mm (0.024–0.028 in)



L Incorrect: Replace or adjust gap.

M OK: Clean the spark plug.

N Check the following
- Fuel line clogging
- Air cleaner element clogging.

O Clogged → Q Clean or replace; Consult a Yamaha dealer.

P OK → R Consult a Yamaha dealer.

AE00701

SPECIFICATIONS

AE00702

Dimensions

	Unit	EF2000iS
Overall Length	mm (in)	490 (13.3)
Overall Width	mm (in)	280 (11.0)
Overall Height	mm (in)	455 (17.9)
Dry Weight	kg (lb)	20 (44)

AE00704

Engine

	Unit	EF2000iS
Type		Air cooled 4-stroke gasoline OHV
Cylinder Arrangement		Inclined, 1 cylinder
Displacement	cm^3	79
Bore × Stroke	mm (in)	48.6 × 43.0 (1.91 × 1.69)
Operation Hours	Hr	4.2–10.5 (rated load–1/4 load)
Fuel		Unleaded gasoline
Fuel Tank Capacity	L (US gal, Imp gal)	4.2 (1.11, 0.92)
Engine Oil Quantity	L (US qt, Imp qt)	0.4 (0.42, 0.35)
Ignition System		CDI
Spark Plug: Type		BPR6HS (NGK)
Gap	mm (in)	0.6–0.7 (0.024–0.028)
Noise Level*	dB / L_{WA}	87.5
	dB (A) / 7 m	51.5–61

***** : Noise level is measured when the economy control switch is turned to “ON”.
L_{WA} 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.

AE00707

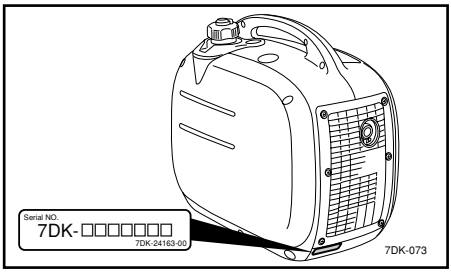
Generator

	Unit	EF2000iS
AC Output		
Rated voltage	V	120
Rated frequency	Hz	60
Rated current	A	13.3
Rated output	kVA	1.6
Safety Device: Type		Electronic
DC Output		
Rated voltage	V	12
Rated current	A	8
Safety Device: Type		DC protector

CONSUMER INFORMATION

PRI-I.D. NUMBER:

MODEL	
PRI-I.D. CODE	**SERIAL No.**



AE00012

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.

AE00011

Machine identification

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

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.

AE00789

EXHAUST EMISSION CONTROL SYSTEM AND COMPONENTS

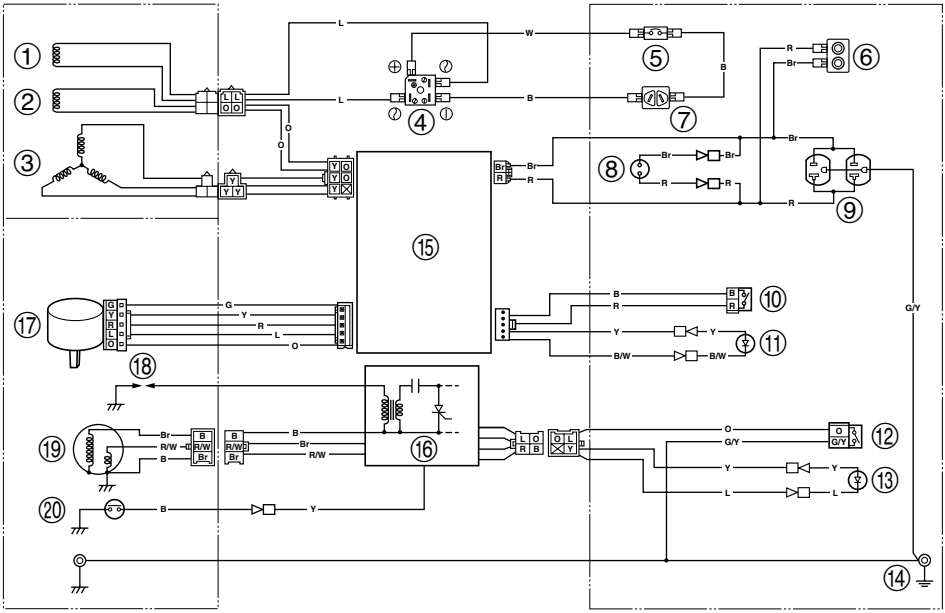
Item	Acronym
• CARB. ASSY., LH. & JT., CARBURETOR2	CARB (Carburetor)
• T.C.I. MAGNETO ASSY. & PLUG, SPARK	EI (Electronic Ignition)
• CRANKCASE1 & HEAD, CYLINDER1	PCV (Positive Crankcase Ventilation)
• AIR FILTER ASSY. .	ACL (Air Cleaner)
• MUFF., 2, CAP, NET, WIRE2 & ARRESTER, SPARK	

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.

AE00751

WIRING DIAGRAM



① Sub coil
② DC coil
③ Main coil
④ DC rectifier
⑤ DC protector (breaker)
⑥ Twin Tech (parallel running terminal)
⑦ DC receptacle
⑧ AC pilot light
⑨ AC receptacle
⑩ Economy control switch
⑪ Overload indicator light
⑫ Engine switch
⑬ Oil warning light
⑭ Ground (earth) terminal
⑮ Control unit
⑯ CDI unit/Ignition coil
⑰ Stepping motor
⑱ Spark plug
⑲ CDI magneto
⑳ Oil level gauge

Color code

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

YAMAHA MOTOR CORPORATION, U.S.A.
EF SERIES GENERATORS
3-YEAR LIMITED WARRANTY

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

THE PERIOD OF WARRANTY Any new EF-series Yamaha generator purchased from an authorized Yamaha generator dealer in the United States will be warranted against defects in material or workmanship for a period of three (3) years from date of purchase for pleasure or (except EF1000iS) commercial use, subject to exclusions noted herein. Yamaha EF1000iS generators purchased for commercial use from an authorized Yamaha generator dealer in the continental United States will be warranted against defects in materials or workmanship for a period of two (2) years from the date of purchase, subject to exclusions noted herein.

DURING THE PERIOD OF WARRANTY any authorized Yamaha generator service dealer will, free of charge, repair or replace, at Yamaha's option, any part judged defective by Yamaha due to faulty workmanship or material from the factory. Parts used in warranty repairs will be warranted for the balance of the product's warranty period. All parts replaced under warranty become the property of Yamaha Motor Corporation, U.S.A.

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

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

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

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

1. Operate and maintain the generator as specified in the appropriate Owner's Manual.
2. Give notice to an authorized Yamaha consumer generator service dealer of any and all apparent defects within ten (10) days after discovery, and make the machine available at that time for inspection and repairs at such dealer's place of business. You may locate your nearest authorized Yamaha generator service dealer online at www.yamaha-motor.com.

EMISSION CONTROL SYSTEM WARRANTY
Yamaha Motor Corporation, U.S.A. also warrants to the ultimate purchaser and each subsequent purchaser of each 1995 and later Yamaha Generator covered by this warranty that the product is designed, built, and equipped so as to conform at the time of sale with all U.S. emissions standards applicable at the time of manufacture and that it is free from defects in materials and workmanship which would cause it not to meet these standards within the period listed immediately below. Failures other than those resulting from defects in material or workmanship which arise solely as a result of owner abuse and/or lack of proper maintenance are not covered by this warranty.

All 1995 and Later EF Models
Two (2) years from the original purchase date

WARRANTY TRANSFER: To transfer any remaining warranty from the original purchaser to any subsequent purchaser, it is imperative that the unit be inspected and registered for warranty by an authorized Yamaha consumer generator dealer. In order for this warranty to remain in effect, this inspection and registration must take place within ten (10) days after transfer. A reasonable dealer imposed fee may be charged for the inspection.

YAMAHA MOTOR CORPORATION, U.S.A. MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS AND TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY YAMAHA MOTOR CORPORATION, U.S.A. AND EXCLUDED FROM THIS WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. ALSO EXCLUDED FROM THIS WARRANTY ARE ANY INCIDENTAL OR CONSEQUENTIAL

DAMAGES INCLUDING LOSS OF USE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

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

WARRANTY QUESTIONS AND ANSWERS

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

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

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

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

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

Q. What responsibility does my dealer have under this warranty?
A. Each Yamaha generator dealer is expected to:
1. Check the operation of the generator before sale.
2. Explain the operation, maintenance, and warranty requirements to your satisfaction at the time of sale, and upon your request at any later date.

In addition, each Yamaha generator dealer is held responsible for his setup, service and warranty repair work.

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

CUSTOMER SERVICE

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

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

CHANGE OF ADDRESS

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

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

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

YAMAHA OUTDOOR POWER EQUIPMENT
CALIFORNIA EVAPORATIVE EMISSION CONTROL WARRANTY STATEMENT
YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and Yamaha Motor Corporation, USA are pleased to explain the evaporative emission control system's warranty on your 2006 or later outdoor power equipment. In California, new equipment that use small off-road engines must be designed, built, and equipped to meet the State's stringent anti-smog standards. Yamaha Motor Corporation, USA must warrant the evaporative emission control system on your outdoor power equipment for the period listed below provided there has been no abuse, neglect, or improper maintenance of your equipment.

Your evaporative emission control system may include parts such as: carburetors, fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated components. For engines less than or equal to 80cc, only the fuel tank is subject is the evaporative emission control warranty requirements of this section.

MANUFACTURER'S
WARRANTY COVERAGE:
This evaporative emission control system is warranted for two years. If any evaporative emission-related part on your equipment is defective, the part will be repaired or replaced by Yamaha.

OWNER'S
WARRANTY RESPONSIBILITIES:

- As the outdoor power equipment owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Yamaha recommends that you retain all receipts covering maintenance of your outdoor power equipment, but Yamaha cannot deny warranty solely for the lack of receipts.

- As the outdoor power equipment owner, you should however be aware that Yamaha may deny you warranty coverage if your outdoor power equipment or a part has failed due to abuse, neglect, or improper maintenance, or unapproved modifications.

- You are responsible for presenting your outdoor power equipment to a Yamaha service center as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have a question regarding your warranty coverage, you should contact Yamaha Customer Relations at 1-800-962-7926.

YAMAHA MOTOR CORPORATION, USA
Post Office Box 6555
Cypress, California 90630

YAMAHA MOTOR CORPORATION, U.S.A.
SMALL OFF ROAD ENGINES
CALIFORNIA EMISSION CONTROL WARRANTY
YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and Yamaha Motor Corporation, U.S.A. are pleased to explain the emission control system warranty on your 2008 and later Small Off Road Engine (SORE). In California, new SORE engines must be designed, built and equipped to meet the State's stringent anti-smog standards. Yamaha must warrant the emission control system on your SORE engine for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your SORE engine.

Your emission control system may include parts such as the carburetor or fuel-injection system, the ignition system, and catalytic converter. Also included may be hoses, belts, connectors and other emission-related assemblies.

Where a warrantable condition exists, Yamaha will repair your SORE engine at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE

The 2008 and later SORE engines are warranted for two years. If any emissions-related part on your engine is defective, the part will be repaired or replaced by Yamaha.

OWNER'S WARRANTY RESPONSIBILITIES

- As the SORE engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Yamaha recommends that you retain all receipts covering maintenance on your SORE engine, but Yamaha cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.
- As the SORE engine owner, you should however be aware that Yamaha may deny you warranty coverage if your SORE engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.
- You are responsible for presenting your SORE engine to a Yamaha dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact the Yamaha Customer Relations Department at 1-800-962-7926.

Yamaha Motor Corporation, U.S.A. warrants to the ultimate purchaser and each subsequent purchaser thereafter that each new SORE engine certified for sale and registered in California are:

1. Designed, built, and equipped so as to conform, at the time of sale, with all applicable regulations adopted by the California Air Resources Board, and
2. All warranted parts are free from defects in material and workmanship for the warranty period of the SORE engine or the period prior to the first scheduled replacement point of the warranted part as required by the maintenance schedule, if applicable, whichever is less. A defect exists when a deficiency in material or workmanship is such that an emission-related warranted part does not function as designed.

The warranty period begins on the date that the SORE engine is delivered to an ultimate purchaser or on the date it is first placed in service.

The warranty on emissions-related parts will be interpreted as follows:
(1) Any warranted part that is not scheduled for replacement as required maintenance in the written

instructions required by subsection (d) must be warranted for the warranty period defined in Subsection (b)(2). If any such part fails during the period of warranty coverage, it must be repaired or replaced by the manufacturer according to Subsection (4) below. Any such part repaired or replaced under the warranty must be warranted for the remaining warranty period.

(2) Any warranted part that is scheduled only for regular inspection in the written instructions required by subsection (d) must be warranted for the warranty period defined in Subsection (b)(2). A statement in such written instructions to the effect of "repair or replace as necessary" will not reduce the period of warranty coverage. Any such part repaired or replaced under warranty must be warranted for the remaining warranty period.

(3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions required by subsection (d) must be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part must be repaired or replaced by the engine manufacturer according to Subsection (4) below. Any such part repaired or replaced under warranty must be warranted for the remainder of the period prior to the first scheduled replacement point for the part.

(4) Repair or replacement of any warranted part under the warranty must be performed at no charge to the owner at a warranty station.

(5) Notwithstanding the provisions of Subsection (4) above, warranty services or repairs must be provided at all manufacturer distribution centers that are franchised to service the subject engines.

(6) The owner must not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station.

(7) The manufacturer is liable for damages to other engine components proximately caused by a failure under warranty of any warranted part.

(8) Throughout the emissions warranty period defined in Subsection (b)(2), the manufacturer must maintain a supply of warranted parts sufficient to meet the expected demand for such parts.

(9) Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of the manufacturer.

(10) Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts will be grounds for disallowing a warranty claim. The manufacturer will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

(11) The manufacturer issuing the warranty shall provide any documents that describe that manufacturer's warranty procedures or policies within five working days of request by the Air Resources Board.

WARRANTED PARTS INCLUDE the following:

1. Fuel Metering System
   Carburetor and internal parts (or fuel injection system)
   Air/fuel ratio feedback and control system
   Cold start enrichment system

2. Air Induction system
   Controlled hot air intake system
   Intake manifold
   Air filter

3. Ignition System
   Spark plugs*
   Magneto or electronic ignition system
   Spark advance/retard system

4. Exhaust Gas Recirculation (EGR) System
   EGR valve body, and carburetor spacer if applicable
   EGR rate feedback and control system

5. Air Injection System
   Air pump or pulse valve
   Valves affecting distribution of flow
   Distribution manifold

6. Catalyst or Thermal Reactor System
   Catalytic converter
   Thermal reactor
   Exhaust manifold

7. Particulate Controls
   Traps, filters, precipitators, and any other device used to capture particulate emissions

8. Miscellaneous Items Used in Above Systems
   Vacuum, temperature, and time sensitive valves and switches
   Electronic controls
   Hoses, belts, connectors, and assemblies

9. Engine components damaged due to a failure under warranty or a warranted part

*The original spark plug(s) are warranted for the period of replacement indicated in the Owner's Manual and not the useful life of the SORE engine (see your Owner's Manual).

DURING THE PERIOD OF THIS WARRANTY

Yamaha Motor Corporation, U.S.A. will repair or replace any warranted part deemed defective by Yamaha during the scope of the warranty without charge to the owner, including parts, labor, and diagnosis. This work must be done at an authorized Yamaha dealer. Give notice to an authorized Yamaha dealer of any apparent defects(s) within a reasonable period of time after discovery. The SORE engine must be made available for inspection by an authorized Yamaha dealer.

OWNER'S RESPONSIBILITY:

The owner of the SORE engine is responsible for the performance of required maintenance (see your Owner's Manual). Receipts and maintenance records covering the performance of regular maintenance should be retained in the event questions arise concerning maintenance. The receipts should be transferred to each subsequent owner of this SORE engine.

The emission control systems of your Yamaha SORE engine were designed, built, tested, and certified as being in conformity with California emission control regulations using genuine Yamaha parts. Accordingly, it is recommended that any replacement part(s) used for maintenance, replacement, or repair of emission control systems be Yamaha parts. The owner may elect to have maintenance, replacement, or repair of the emission control devices and systems performed by any repair establishment or individual, and may elect to use parts other than Yamaha parts for such maintenance, replacement, or repair without invalidating this warranty. However, the cost of such service or parts will not be covered under the warranty.

EXCLUSIONS: No warranty coverage will be allowed if the part(s) failure was caused by owner/operator abuse, neglect, tampering, improper adjustment unless performed by a dealer during warranty repair work, modification, misuse, alteration, or improper maintenance (see your Owner's Manual).

Use of parts which are not qualitatively equivalent to genuine Yamaha parts, improper service, or lack of required maintenance which causes failure of a warranted part may constitute abuse and/or improper service, thereby invalidating warranty liability hereunder.

This warranty does not cover damage resulting from accidents, acts of nature, or other events or occurrences beyond the control of Yamaha. Yamaha Motor Corporation, U.S.A. expressly disclaims responsibility for any and all consequential damages, such as loss of time, inconvenience, loss or use of the SORE engine, or commercial loss.

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

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

Or complete the card below and Mail

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 Serial 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