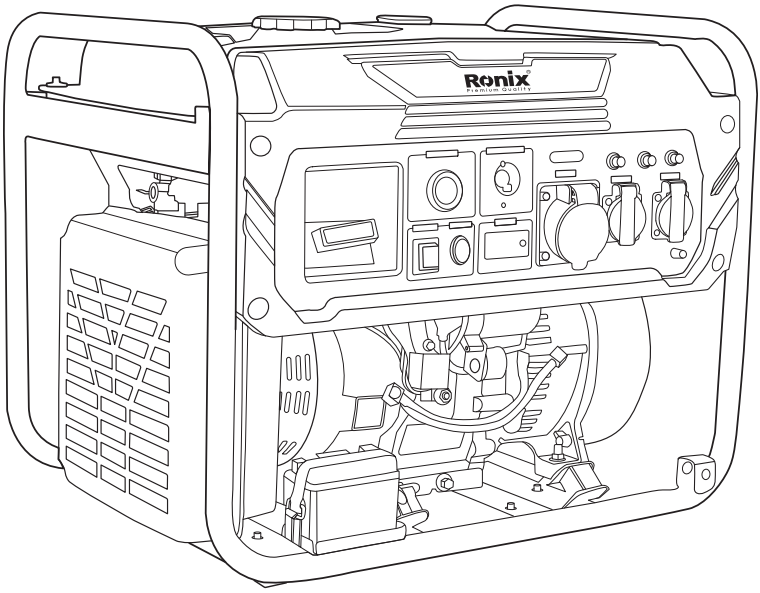
Ronix®
Premium Quality

COMPACT INVERTER GENERATOR 10000W

RH-4774



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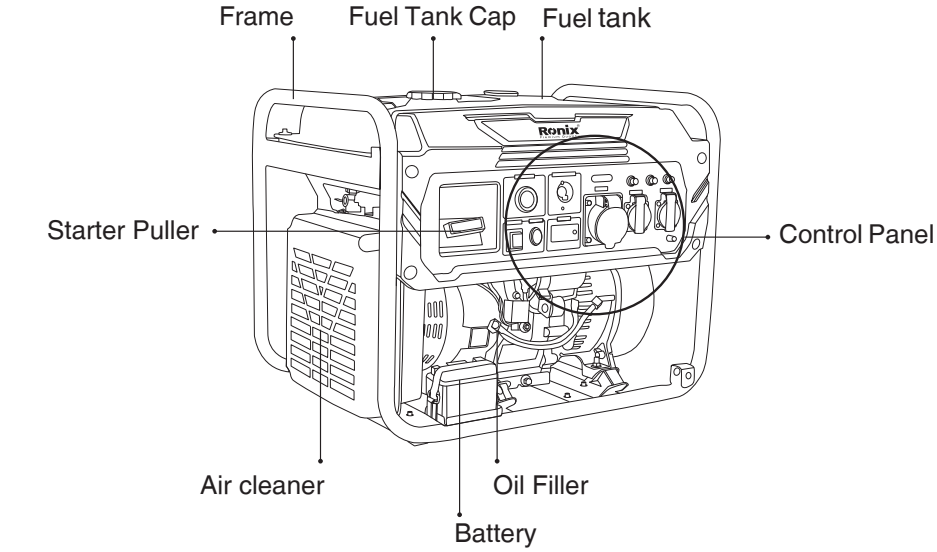
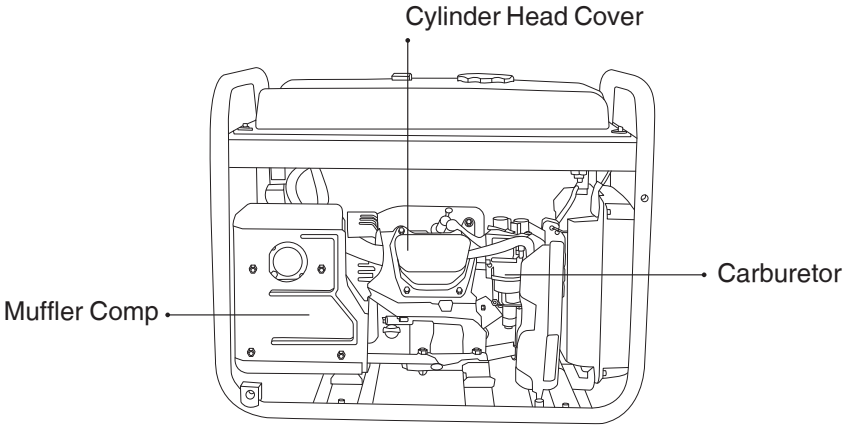
TECHNICAL SPECIFICATION

Model	**RH-4774**	
Engine	Type	192FB-V
	Displacement	460CC
	Rated Power	18.5HP
	Ignition System	T.C.I
	Start Type	Hand Start/Electric starting
	Fuel Tank Capacity	25L
	Continuous Working	6h
	Fuel Type	Gasoline
Generator	Type	Open frame inverter generator
	Rated Voltage	230V
	Frequency	50Hz
	Winding Material	Copper wire
	Rated Amperage	36A
	Rated Power	9000W
	Max Power	10000W
Weight	74Kg	
Packaging	Five Layers Bc Corrugated Paper, Normal Carton, Added The Inner 25mm Honeycomb Panels	
Accessories	Spark Plug Tool(1pc), Plug(3pcs), Handle With Wheels(1set)	

PART LIST





This operator's manual includes all relevant information, please read it carefully. operator's manual includes all relevant information, please read it carefully. This related information is primarily intended to help you avoid damage to the generator set, other property, and the environment. we have provided relevant operating procedures and information on

some labels and this operator's manual. These messages alert you to notice potential hazards that could harm you and others.

YOU WILL FIND IMPORTANT SECURITY INFORMATION IN MANY FORMS, INCLUDING:

1- Safety label- pasted on the generator set.
2- The significance of these three warning words:

⚠ DANGEROUS:
If not follow these notices, it will be a risk of personal injury or death.

⚠ CAUTIOUS:
If not follow these notices, you will be injured.

Security Title - Such as important safety information
Security Chapter - Such as generator safety instructions
Preface - How to use the generator correctly and safely

Important safety information is fully explained in this manual, please read it carefully.

GENERATOR SAFETY INSTRUCTIONS

▪IMPORTANT INFORMATION

The generator is designed for use with electrical equipment with appropriate power requirements, other uses will likely injure the user and damage the generator and other property.
Most accidents can be prevented if you follow this instruction manual and the tips on the generator, the most common potential hazards are described below, along with the best ways to protect yourself and others

▪USER RESPONSIBILITY

- Must Know how to stop the generator quickly in an emergency.

- Understand the purpose of all generator controls, output sockets and connectors.
- Ensure proper instructions are given to any operator. Do not allow children to operate the generator without parental supervision.
- Before starting the generator every time, be sure to do the pre-operation inspection, to avoid personal injury and equipment damage.
- Children and pets must stay away from the operating area to prevent being scalded by generator parts or injured by the running generator.
- Place the generator on a stable surface for operation, and the inclination angle should not exceed 20 degrees from the horizontal plane, otherwise it may cause fuel spillage.
- Do not place anything on top of the gasoline generator to prevent fire.

▪RISK OF CARBON MONOXIDE POISONING

- The exhaust gas from the generator contains the poisonous colorless and odorless carbon monoxide gas. Inhalation of this fume may cause loss of consciousness or even death.
- If you are operating your generator in an enclosed or semi-enclosed area, the air may contain a lot of toxic exhaust fumes.
- Never operate a generator in a garage, indoors, or next to an open window or door.

▪ELECTRIC SHOCK HAZARD

- If used improperly, the electricity generated by the generator can cause severe electric shocks and even death by electrocution.
- Using generators or electrical equipment in wet conditions, such as rain, snow, poolside, dripping water, or wet hands, may result in electrocution. Please keep the generator in a dry state.
- If the generator is stored outdoors without any weather precautions, check the electrical components on the control panel before each use. Moisture or ice can cause electrical packs to malfunction or short out, which can cause electric shock.
- Do not connect a generator to a building's electrical system unless a

professional electrician has installed a protective switch in front of the building.

▪FIRE OR BURN HAZARD

- The high temperatures caused by the exhaust system are high enough to ignite some materials.
- Place the generator at least 1 meter away from buildings or other equipment during operation.
- Do not seal the generator.
- Please keep flammable and explosive materials away from the generator.
- The muffler can get very hot during operation and will remain hot for some time after shutdown. At this time, please be careful not to touch the muffler, and let the generator cool down before storing it indoors.

⚠ NOTICE:

Before using the generator, please check whether the unit model is single-phase or three-phase (three-phase with "S"); if it is a three-phase generator, it is not recommended to use single-phase output when using three-phase output. When using single-phase output, the power should not exceed one-third of the total power.

- Please use under the guidance of our technical service department for LED lights, UPS and other electrical appliances.

▪REFUELING PRECAUTIONS

Gasoline is flammable and may cause explosion, if the generator has been running, please let it cool down first. Only stop the generator and refuel outdoors with good ventilation. When refueling, please do not overfill the tank. Do not smoke near gasoline and keep away from other flames, sparks, etc. Make sure to wipe up any spilled fuel before starting the generator.

PREPARATION BEFORE OPERATION

▪ARE YOU READY?

Your own safety is your responsibility and taking the time to prepare will greatly reduce the risk of injury.

▪FUNCTION UNDERSTANDING

Read and understand this user manual, and master the functions and operations of the control panel.

Familiarize yourself with the generator and its operation before use. Learn how to quickly stop a generator in the event of an emergency. When the generator is used for power equipment, be careful not to exceed the load limit of the generator.

▪IS THE GENERATOR READY?

For your safety and to maximize the life of your generator, it is important to take some time to inspect the condition of your generator before operating it. Before using the generator, make sure that any problems you find have been corrected, if not, please contact the dealer for inspection and repair.

⚠ WARNING!

If the generator is not properly maintained or its existing problems are not properly repaired before operation, it may cause malfunctions and cause serious harm to you.

Please conduct a pre job inspection before each operation and correct any existing issues.

To prevent fire, keep the generator at least 1 meter away from the walls of buildings or other machines in operation. Keep flammable objects away from the generator.

When performing pre-work inspection, make sure that the generator is on a level surface and the generator switch is in the "OFF" position.

▪ENGINE CHECK

Check the oil level, a low oil level will cause the oil warning system to stop the engine.

Check the air filter, a dirty air filter will block air from entering the carburetor, reducing engine and alternator performance.

Check the fuel level, start the engine after the fuel tank is full can help avoid frequent stoppages for refueling.

GENERATOR OPERATIONS

▪PRECAUTIONARY GUIDELINES FOR SAFE OPERATIONS

Before operating the generator for the first time, please read the relevant chapters of generator safety instructions and preparations before operation.

For your safety, avoid starting and operating the generator in a closed and airtight place such as a garage. The exhaust gas contains toxic carbon monoxide gas, which is easy to accumulate in a sealed environment and cause illness or death.

⚠ WARNING!

The exhaust gas contains carbon monoxide, a toxic gas that can put sealed spaces at risk. Inhaling carbon monoxide can cause loss of consciousness and even lead to death.

Do not operate the generator in enclosed or semi enclosed spaces.

▪BEFORE CONNECTING THE AC ELECTRICAL DEVICE OR POWER CORD TO THE GENERATOR:

- Use grounded three-way wiring harnesses, tools, and electrical equipment, or use double-insulated tools and electrical equipment, and ensure that the wiring harness can withstand the maximum current of the powered equipment.
- Check whether the wiring harness and socket are exposed or damaged. If damaged, please replace it to avoid the risk of electric shock.

- Make sure that the amperage of the tools and equipment does not exceed the amperage of the generator, be careful not to exceed the maximum output power of the generator, and the operating time between the rated value and the maximum value output power does not exceed 30 minutes.
- Operate the generator at least 1 meter away from walls or other operating equipment.
- Do not operate the generator in a sealed airtight environment.

▪START THE GENERATOR

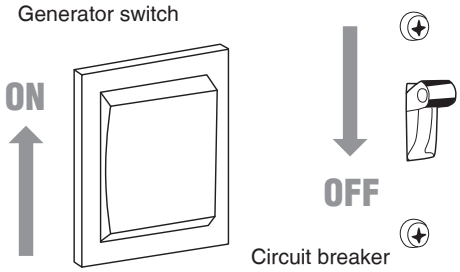
In order to effectively prevent fire, please keep at least 1 meter away from walls or other equipment during operation. Do not place flammable and explosive items near the generator.

⚠ NOTICE:

When operating the generator, keep a distance of more than 1 meter from walls or obstacles that may damage or cause the generator to overheat. Allow the generator to cool in a space of at least 1 meter.
Refer to "Precautionary Guidelines for Safe Operation" and "Is the Generator Ready?

▪STEP 1

Make the generator switch in the "ON" position, and the circuit breaker Air switch in the "OFF" position.
When the load is connected to the generator, it may be difficult to start the generator.

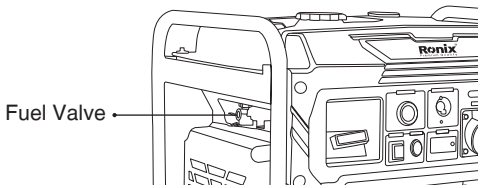


⚠ NOTICE:

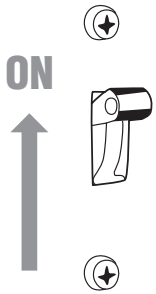
If it is a single three-phase generator, the voltage transfer switch is in the required load voltage gear. If it is not in the voltage gear of the required load, it can be manually switched to the required load gear.

▪STEP 2

Keep the oil switch in the "ON" position.



▪STEP 3



▪START WITH THE BUTTON

Press and hold the button for 2 seconds, and the generator will start automatically.

▪START WITH RECOIL STARTER

A- Press the generator switch on the control panel to the "ON" position.

B- Gently pull the starter handle up until you feel resistance, then gently put it back and pull harder.

⚠ NOTICE:

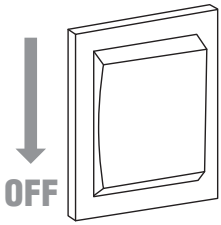
After starting, do not let the starting handle suddenly bounce back. Instead, gently place the handle back to protect the starter from damage. Do not let the starter rope rub against the engine, otherwise the rope will be damaged and broken.

▪STEP 4

Turn on the air switch or circuit breaker to start power transmission.

▪STOP THE GENERATOR

1- Press the air switch or circuit breaker to the "OFF" position.
2- Turn the fuel switch to "OFF" position
3- Press and hold the button for 2 seconds to stop automatically.



EMERGENCY HANDLING

When an emergency occurs and you don't know how to deal with it, you can directly press the generator switch button to the "OFF" position to stop the generator from running.
When the operation of electrical equipment becomes abnormal, such as slow response or sudden stop, please stop the generator immediately. Remove the connection between the electrical equipment and the generator and check if it is a problem with the electrical equipment or if it exceeds the rated output of the generator.

⚠ NOTICE:

Large overloads will damage the generator. Slight overloading also has the potential to reduce the life of the generator.

1- Start the generator.

2- Connect electrical equipment, most electric devices require more power than the rated value to start.

3- Press the air switch or circuit breaker to the "ON" position.

AC OPERATION

▪BEFORE CONNECTING ELECTRICAL UNITS OR WIRING HARNESSES TO THE GENERATOR:

- Ensure that electrical equipment is in good working condition. Poor electrical equipment or wiring harnesses may cause electric shock. When the operation of electrical equipment becomes abnormal, such as slow response or sudden stop, please immediately disconnect the generator from the electrical equipment and check if it is a problem with the electrical equipment or if it exceeds the rated output of the generator.

-To ensure that the current intensity of tools and equipment does not exceed the current intensity of the generator, it is important to take care not to exceed the maximum power output of the generator. Do not operate at a power level between rated power and maximum power for more than 30 minutes.

⚠ NOTICE:

Overloading will cause the air switch or circuit breaker to be in the "off" position. When the maximum power operation time is too long or slightly overloaded, the air switch may not be turned to the "off" position to cause shutdown, but it will shorten the service life of the generator. The total output of the connected electrical appliances must be considered. Manufacturers of electrical appliances or power tools usually label information related to rated power near the machine model or serial number.

⚠ NOTICE:

Before using the generator, please check whether the generator model is single-phase or three-phase (three-phase with "S").

If it is a three-phase generator, it is not recommended to use single-phase output when using three-phase output; When using single-phase output, the power of a three-phase generator shall not exceed one-third of the total power.

BACKUP POWER

▪CONNECT TO BUILDING ELECTRICAL SYSTEM

The generator can be used as a power supply equipment for building electrical systems. If the generator is selected as a backup power supply for industrial companies, an insulation switch must be installed to separate it from the building circuit when connecting the generator. The installation must be carried out by a senior electrician and must comply with relevant regulations.

⚠ NOTICE:

Improper connection with the building electrical system will cause a short circuit between the generator and the wiring. Such a short circuit can cause electric shock and death to people who come into contact with the power line during a power outage, and the generator may explode, burn, or cause a fire when the building's power supply is restored. Please consult a utility company or experienced electrician before making any power connections.

Some regions have laws that require generators to be registered with public utility companies, in order to review local regulations for appropriate registration and operation.

GROUNDING SYSTEM

The EF Power generator has a grounding system, which can connect

the frame components of the generator with the grounding terminal of the AC output socket. The grounding system is not connected to the AC center line. If a socket circuit detector is used to detect the generator, the displayed grounding circuit condition will be different from that of a household socket.

SPECIAL REQUIREMENT

There may be some laws or local regulations or rules regarding the use of generators. Please consult senior electricians, electrical inspectors, or relevant institutions familiar with relevant authorities.

- Some regions require generators to be registered with local utility companies.
- If generators are used on construction sites, there may be other regulations that need to be followed.

GENERATOR MAINTENANCE

▪THE IMPORTANCE OF MAINTENANCE

Good maintenance is a prerequisite for safe, economical, trouble-free operation and at the same time helps to reduce pollution.

In order to help you in proper maintenance of the generator, the following content will include maintenance schedules, daily monitoring procedures, and simple maintenance procedures using basic tools. For other difficult maintenance tasks that require the use of specialized tools, it is best to have professional or technical personnel and other senior technicians perform the correct operations.

The maintenance schedule is only applicable under normal operating conditions. If you operate the generator under special conditions; If operated under high load or high temperature for a long time or used in dusty areas, please consult the dealer for relevant opinions and suggestions that are suitable for your special situation.

⚠ WARNING!

Improper maintenance or incorrect problem-solving before operation may cause functional impairments and result in personal injury or death. Please always follow the inspection and maintenance recommendations and schedules listed in this user manual.

Our dealer is very familiar with the performance of the generator and has complete equipment to maintain and repair it.

To ensure the best quality and reliability, use new genuine EF Power spare parts or their equivalent for repair and replacement work.

▪MAINTENANCE SAFETY

Please follow important safety precautions. Of course, we cannot alert you to potential hazards during each maintenance process. You also need to make your own judgment to decide whether to proceed.

⚠ WARNING!

Failure to follow maintenance instructions and precautions correctly could result in personal injury or death.

Please always follow the maintenance procedures and precautions listed in this instruction manual.

▪SAFETY PRECAUTIONS

Make sure the engine is stopped before starting any maintenance or repairs. This will help eliminate some potential hazards.

▪ENGINE EXHAUST CARBON MONOXIDE POISONING

Whenever operating the engine block, make sure that it is well ventilated.

▪HOT PARTS CAUSE BURNS

Allow engine and exhaust system to cool before touching.

▪INJURIES CAUSED BY MOVING COMPONENTS

Before starting, read the relevant instructions to ensure that you have

the necessary tools and techniques.
To reduce the possibility of fire or explosion, please be particularly careful when working in areas with gasoline. Try to use non combustible solutions instead of gasoline to clean components as much as possible. Keep fuel related components away from cigarette butts, sparks, etc.

Daily maintenance cycle Item		Every use	First month or 20 hours	Every 3 months or 50 hours	Every 6 months or 100 hours	Every year or 300 hours
Engine oil	check oil level	×				
	Change oil		×		×	
Air filter	Clean up	×				
	Replace			0(1)		
Settling cup	Clean up		×		×	
Spark plug	Check-Adjust				×	
	Replace					×
Valve clearance	Check-Adjust					0(2)
Combustion chamber	Clean up		Every 500 hours			
Fuel Tank and Filter	Clean up					0(2)
Fuel tank pipe	Check	×	Every 2 years (if necessary, please replace)			0(2)

1- If used in dusty areas, the maintenance frequency should be increased.
2- These maintenance jobs should be done by a dealer unless you have

the proper tools and good technique. Refer to the EF Power Service Manual for service and maintenance work.
3- When used for commercial purposes, record the hours of operation to determine the time interval for maintenance.

TOOLS

A spark plug socket is provided with the alternator. Please use the provided tools for maintenance and repair. Using improper maintenance tools can cause damage to the generator.

POWER PLUG

The generator is equipped with a power plug matching the number of generator sockets.

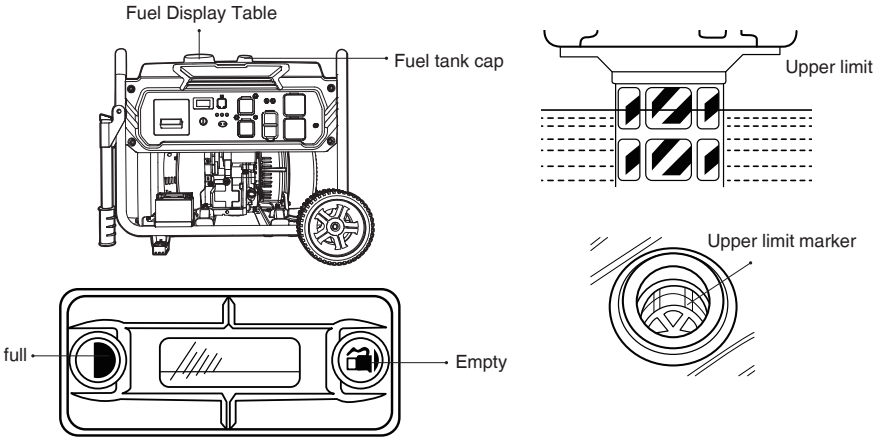
REFUEL

After the engine is shut down, check the fuel display gauge. If the oil level in the tank is too low, please add fuel.

⚠ WARNING!
Gasoline is highly flammable and explosive. You could be burned or seriously injured when handling fuel.
- Turn off the engine and keep away from high temperatures, sparks, and flames.
- Fuel should only be handled outdoors.
- Wipe up spilled fuel promptly.

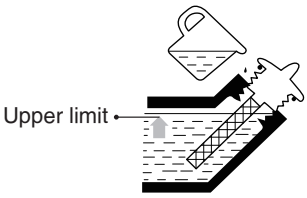
⚠ NOTICE:
Fuel can corrode paint and plastic products. Please be careful not to spill when refueling. Damage caused by fuel leakage is not guaranteed. Before starting, refuel in a well ventilated area. If the engine has just

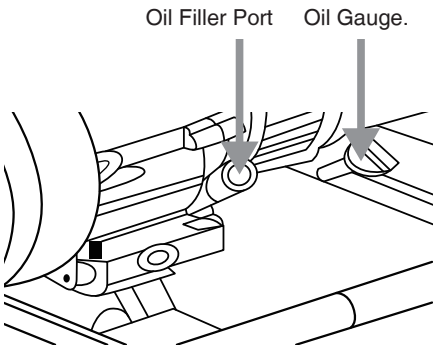
stopped running, let it cool first. Be careful not to let the fuel spill when refueling. Do not add more fuel than the upper limit oil level mark on the fuel filter. Tighten the fuel tank cap after refueling. Do not refuel the generator indoors as gasoline and gas may come into contact with flames or sparks, causing a fire. Keep it away from electrical indicators, Barbecue grill, electrical appliances, electric tools, etc.
Spilled fuel is not only a fire hazard, but also affects the environment. Please wipe up the spilled fuel immediately.



ENGINE OIL LEVEL CHECK

After the generator is shut down, check the oil level at the horizontal position.
1- Take out the oil level measurement ruler and wipe it clean.
2- After inserting completely, take it out to detect the oil level.
3- If the measured oil level is close to or lower than the oil level measuring stick. Unscrew the oil plug gauge and add recommended oil to the upper line mark.
4- Reinstall the oil level gauge.



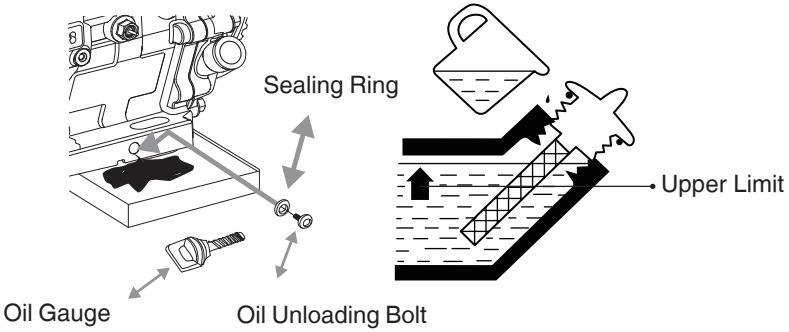


When the oil
level falls below the safe minimum, the oil alarm system will automatically stop the engine. To avoid any inconvenience caused by unexpected shutdown, please regularly check the oil level.

ENGINE OIL CHANGE

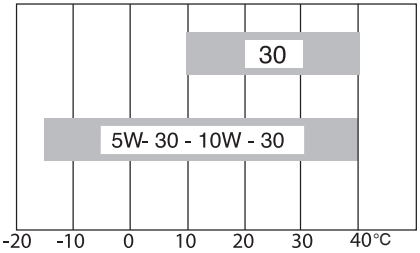
Drain the engine oil when the engine is warm, to ensure fast and complete draining of the engine oil.
1- Place the generator on a wooden frame to ensure space for container placement. Remove the oil filler gauge, drain bolt, and sealing ring.
2- Drain the engine oil thoroughly, then tighten the oil drain bolt again, replace it with a new sealing ring, and tighten it.

⚠ NOTICE:
When handling used engine oil, attention should be paid to protecting the surrounding environment. We suggest that you pack it in a sealed container and send it to the waste disposal site. Do not throw used engine oil into garbage or onto the ground, and pour it into the sewer.
3- Fill the recommended engine oil up to the upper limit mark indicated by the oil plug gauge .
4- Tighten the oil plug gauge.
After handling used engine oil, wash hands with soap and water.



ENGINE OIL RECOMMENDATION

Engine oil is a major factor affecting engine performance and service life.

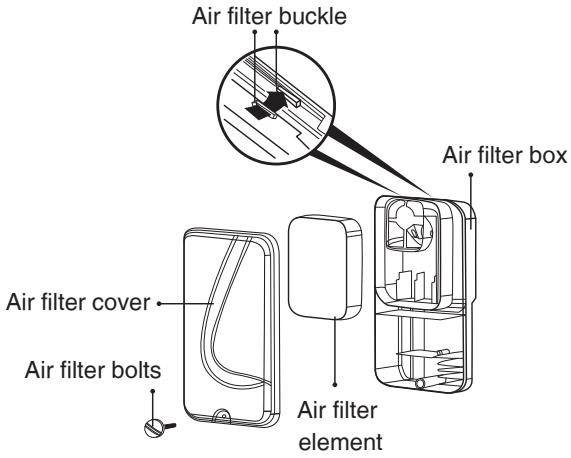


Please use 4-stroke gasoline engine oil that meets or exceeds the requirements of API classification SE grade or equivalent.
Please pay attention to checking the API classification label on the oil packaging to ensure it carries letters of SE or equivalent level. It is recommended to use SAE10W-30 engine oil. When the local average temperature is within the recommended range, oil with other viscosities shown in the table can be used.

AIR FILTER MAINTENANCE

1- Remove the air filter bolts and lift the filter cover slightly upwards.

2- Separate the snap on the upper part of the filter cover and remove the air filter cover, taking care not to damage it.
3- Remove the filter element from the air filter box.
4- Check if the air filter element is clean and intact. If the air filter element is dirty, clean it according to the description previously. If the air filter element is damaged, replace it.

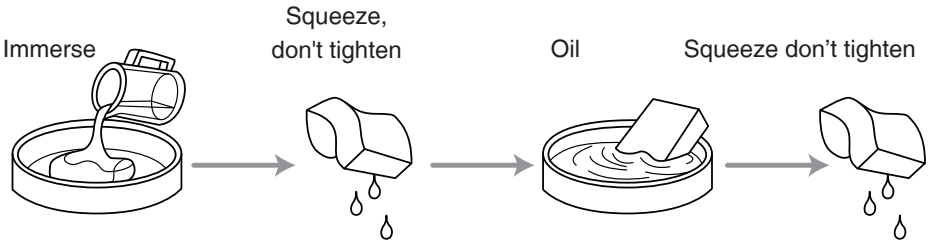


5- Reinstall the air filter element into the air filter.
6- Reinstall the air filter cover and install the air filter bolts. Confirm that the bolts of the air filter are tightened so that there is no gap between the upper and lower covers.
Running the generator without an air filter element or with a bad air filter element will allow dust to enter the engine causing rapid engine wear.

CLEANING OF AIR FILTER ELEMENT

Dirty air filter elements can hinder air from entering the carburetor, thereby reducing engine performance. If a generator is used in dusty areas, the cleaning of the air filter elements is more frequent than

specified in the maintenance schedule.
1- Clean the filter element with warm soapy water, rinse and air dry, or clean the filter element with a non flammable solution and air dry.
2- Insert the filter element into clean engine oil and then squeeze out excess oil. If there is too much oil left in the filter element, the engine will smoke when starting.



3- Use a damp cloth to wipe off the dust on the air filter base and cover, taking care not to allow dust to enter the air pipe leading to the carburetor.

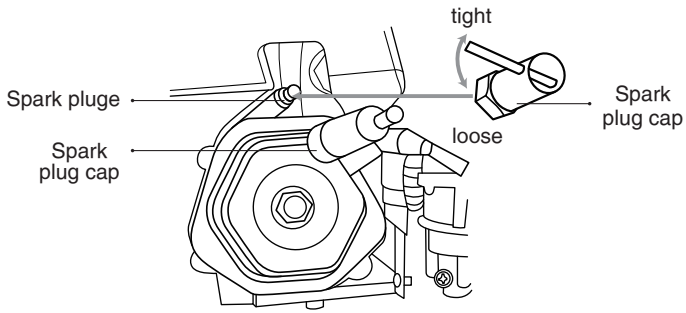
SPARK PLUG MAINTENANCE

▪RECOMMENDED SPARK PLUGS: F7TC

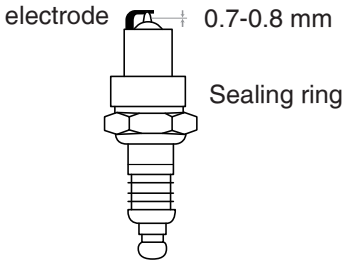
To ensure the normal operation of the generator, the spark plug gap must be adjusted correctly and carbon deposits must be removed.

⚠ NOTICE:

Incorrect use of spark plugs can cause engine damage.
If the engine is in a hot state, please maintain the spark plug after it cools down.
1- Remove the spark plug cap and clean the dirt around the spark plug.
2- Use a spark plug wrench to remove the spark plug.



3- Check the spark plug. If the electrode is worn or the insulation porcelain is broken, a new spark plug needs to be replaced.
4- Measure the spark plug electrode gap using a feeler gauge. Improper spark plugs can cause engine damage.



If the engine is in a hot state, please maintain the spark plug after it cools down.
In order to ensure the normal operation of the generator, the spark plug gap must be adjusted correctly and carbon deposits must be removed.
If the spark plug is cracked, damaged, or corroded, replace the spark plug. You can bend the electrode side and adjust the gap.
Spark plug gap: 0.7-0.8mm
5- Ensure that the spark plug sealing ring is in good condition to prevent thread slippage, and then carefully reinstall the spark plug.
6- After reinstalling the spark plug, tighten it with a spark plug socket.

If it is a used spark plug, tighten it by an additional 1/8-1/4 turn after tightening the spark plug.
If it is a new spark plug, tighten it by an additional 1/2 turn after tightening the spark plug.

⚠ NOTICE:
Inadequate spark plug tightening can cause engine overheating and damage. If the spark plug is over tightened, it will damage the threads of the cylinder head.
7- Install the spark plug cap.

BATTERY MAINTENANCE

While the engine is running, the generator's power charging system charges the battery. However, if the generator is only used periodically, the battery should be charged at least once a month to maintain battery life.

⚠ WARNING!
There is highly corrosive and toxic sulfuric acid (electrolyte- in the battery. Eyes or skin contact with electrolyte will cause severe burns.
When working near the battery, please wear protective clothing and eye protection. Keep batteries away from children.

EMERGENCY MEASURE

▪EYE
Rinse with water from a cup or other container for at least 15 minutes (pressurized water can damage the eyes), and then take immediate medical measures.

▪SKIN
Take off your clothes, rinse your skin with plenty of water, and take immediate medical measures.

In the body Drink a large amount of water or milk and immediately take medical measures.

STORAGE

▪STORAGE PREPARATION

Proper storage preparation is important to keep the generator in trouble free and good looking condition. The following steps will help prevent damage to the function and appearance of the generator from rust and corrosion, and make it easy to start the generator when it is reused.

▪GENERATOR CLEANING

Wipe the generator with a damp cloth. After the generator dries, touch up the damaged paint and apply a thin film of oil to areas where rust may have occurred.

FUEL

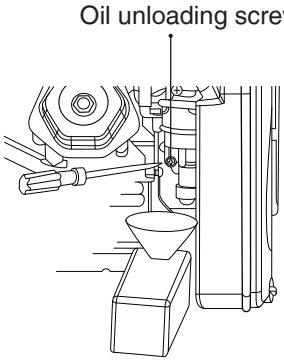
⚠ NOTICE:

Depending on the region where you use the generator, gasoline will deteriorate and oxidize to varying degrees. Even in as little as 30 days, gasoline can deteriorate and oxidize and cause damage to the carburetor or fuel system. Please consult our dealer for local storage methods.

Gasoline oxidizes and deteriorates in storage, and old gasoline can cause starting difficulties and leave gum deposits that clog the fuel system. If the gasoline in your generator has deteriorated in storage, you may need to have your carburetor and fuel system components repaired and replaced.

The time that gasoline can remain in the fuel tank and carburetor without causing performance issues varies due to various factors, such as gasoline mixing, storage temperature, and whether the fuel tank is fully filled. Air in a partially filled fuel tank can accelerate fuel deterioration. Similarly, high storage temperatures can accelerate fuel deterioration.

If the gasoline added to the fuel tank is not fresh enough, the fuel will deteriorate within a few months or even a shorter period of time



DRAIN THE GASOLINE FROM THE FUEL TANK AND CARBURETOR.

1- Check if the fuel valve is closed.
2- Place a suitable gasoline container under the carburetor and use a funnel to prevent gasoline from splashing out.
3- Loosen the carburetor drain screw and drain the gasoline from the carburetor. After draining the gasoline into the container, tighten the drain screw.
4- Place a suitable gasoline container under the fuel valve, remove the fuel pipe, and use a funnel to prevent gasoline from splashing out.
5- Then turn the fuel valve handle to the “ON” position.
6- Completely drain the gasoline and then reinstall the fuel pipe.

▪ENGINE OIL

1- Change the engine oil.
2- Remove the spark plug.
3- Add a tablespoon of clean engine oil (5-10cc) to the cylinder.
4- Pull the starter rope several times to evenly distribute the oil in the cylinder.

5- Reinstall the spark plug.
6- Gently pull up the starter handle until resistance is felt. At this point, the piston is on the compression stroke and both the inlet and exhaust valves are closed. Storing the engine in this state can help prevent internal corrosion. Then gently release the starter handle.

STORAGE PRECAUTIONS

If your generator is stored with gasoline in the fuel tank and carburetor, be careful to avoid the danger of gasoline vapor igniting. Choose equipment with good ventilation and away from fire related equipment. For example, the generator shall be stored in the working place of furnace, water heater or Clothes dryer, and the place with spark motor or electric tool operation shall also be avoided. If possible, avoid damp storage areas as damp environments can easily rust and corrode. Unless all fuel in the fuel tank is discharged completely, please make sure to place the fuel valve in the “OFF” position to reduce the possibility of oil leakage. Place the generator on a horizontal surface. Inclined surfaces can cause fuel or oil leakage. After the engine and exhaust system have cooled down, cover the generator to remove dust. If the engine and exhaust system are hot, certain materials may ignite or melt. Do not use plastic sheets as dust covers. A cover without holes can make the surroundings of the generator damp, thereby promoting rust and corrosion.

MOVE IT OUT FOR USE

Inspect the generator as described in the "Preparation before Operation" section of this manual. If the fuel is drained during storage, add new gasoline to the fuel tank. If you store spare gasoline in a container, ensure that it does not deteriorate. Prolonged oxidation and deterioration of the gasoline can lead to difficulty starting. If oil is applied to the cylinder during storage, the engine may emit slight smoke during restart, which is a normal situation.

TRANSPORT

If the generator has been run prior to transport, let the generator to cool for at least 15 minutes before loading it on the transport vehicle. If the engine and exhaust system are hot, people could be burned or certain fuels could be ignited. Keep the generator in a horizontal state during transportation to reduce the possibility of fuel leakage, and put the fuel valve in the “OFF” position. When using ropes or straps to tie up the generator during transportation, be careful to use only frame irons as the binding point. Do not tie cords or straps to any part of the generator body.

UNEXPECTED PROBLEM HANDLING

▪ENGINE DOES NOT START

Possible causes	Corrective actions
The fuel valve handle is in the “OFF” position	Rotate the fuel valve handle to the “ON” position
Engine switch in the “OFF” position	Turn the engine switch to the “ON” position
Out of fuel	Refuel
Fuel deterioration: The generator was stored without fuel treatment or gasoline was drained or deteriorated gasoline was added when refueling.	Drain the fuel from the fuel tank and carburetor and refill with new fuel
The oil level is too low, causing the oil alarm to operate to stop the engine	Add oil, turn the engine switch to the “OFF" position and restart the generator
Spark plug malfunction, blockage, or improper gap	Adjust the gap or replace the spark plug

Spark plug wetted by fuel (Engine oil spill)	Dry the spark plugs and reinstall it
Fuel filter failure; carburetor failure; ignition failure; fuel valve blockage, etc.	Take the generator to our dealer or refer to the service manual
Fuel filter failure; carburetor failure; ignition failure; fuel valve blockage, etc.	Take the generator set to the RONIX Power dealer or refer to the service manual

▪INSUFFICIENT POWER OF THE ENGINE

Possible causes	Corrective actions
Air filter element clogged	Clean or replace the air filter
Fuel deterioration: The generator was stored without treating the fuel or was refueled with spoiled gasoline.	Drain the fuel from the fuel tank and carburetor refill with new fuel
Fuel filter failure; carburetor failure; ignition failure; fuel valve blockage, etc.	Take the generator to our dealer or refer to the service manual

▪NO OUTPUT FROM VOLTAGE SOCKET

Possible causes	Corrective actions
The circuit breaker is still in the “OFF” position after starting	Turn on the circuit breaker to the “ON” position

A short circuit occurs when the output current	Disconnect running equipment and temporarily stop the engine. Make sure to disconnect all equipment and close the circuit breaker before starting, and then restart the generator. If there is still a short circuit in the generator, send the generator to the our dealer.
Generator malfunction	Replace or repair faulty parts according to the situation.

▪CARBURETOR CHANGES FOR HIGH ALTITUDE OPERATION

For high altitude areas, the standard carburetor will have a rich mixture of air and fuel. The performance of the generator decreases and the fuel consumption increases. Excessive mixing of oil and gas can also cause spark plug blockage and cause difficulty in starting. If the generator operates at an altitude outside the approved range of the engine for too long, the exhaust may increase. You can improve the high altitude performance of the generator by making specific changes to the carburetor. If your generator is used for a long time at an altitude of 1500 meters (5000 feet- or above, please ask our dealer to make changes to its carburetor. Even if changes are made to the carburetor, the engine power will still decrease, with a power reduction of approximately 3.5% for every 300 meters (1000 feet) increase in altitude. For generators that have not made changes to the carburetor, the impact of altitude on power is greater.

⚠ NOTICE:

After changing the carburetor to use at high altitudes, if the generator is used at low altitudes, the mixture of air and fuel will be too low. Using a generator with a modified carburetor at an altitude below 1500 meters (5000 feet) may cause the engine to overheat and cause serious damage to the generator. When using at low altitudes, please ask the EF Power dealer to reset the carburetor to its original specifications.

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