Owner ` s Manual

GENERATOR

KB3800GF KB3800GFE KB5000GF

KB5000GFE KB6500GF KB6500GFE

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KB8000GF KB8000GFE KB8000GFS

KB9000GF KB9000GFE GF9000GFS

IMPORTANT NOTICES

Please pay special attention to statements by the following words:

WARNING

A warning is used to alert the user to fact that hazardous operating and maintenance procedures may result in injury to or death of personnel if not strictly observed.

CAUTION

A caution is used to alert the user to fact that hazardous operating and maintenance procedures may result in

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damage to or destruction of equipment if not strictly observed.

NOTE

A note is used to give helpful information.

This manual should be considered as a permanent part of the unit and should remain with the unit when resold.

The installation and major repair work shall be carried out only by specially trained personnel.

Contents

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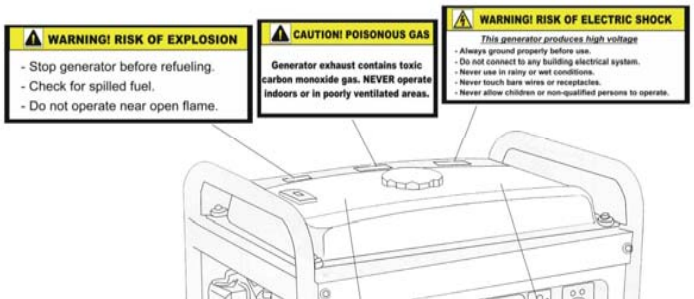
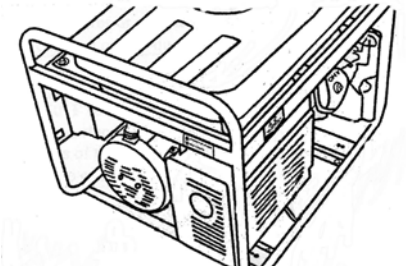
SAFETY

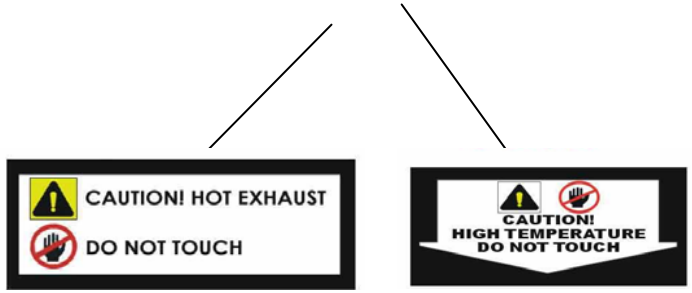
SAFETY LABELL LOCATIONS

These labels warn you of potential hazards that can cause serious injury. Read them carefully.

If a label comes off or becomes hard to read, contact your Generator dealer for a replacement.







NOTICE

Never remove the WARNING label.

SAFETY

SAFETY INFORMATION

Generators are designed to give safe and dependable service if operated according to instructions. Read and understand this owner's manual before operating your generator. You can help prevent accidents by being familiar with your generator's controls, and by observing safe operating procedures.

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Operator Responsibility

·Know how to stop the generator quickly in case of emergency.

·Understand the use of all generator controls, output receptacles, and connections.

·Be sure that anyone who operates the generator receives proper instruction. Do not let children operate the generator without parental supervision.

Carbon Monoxide Hazards

·Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death.

·If you run the generator in an areas that is confined, or even partially enclosed, the air you breathe could contain a dangerous amount of exhaust gas. To keep exhaust gas from accumulating, provide adequate ventilation.

SAFETY

Electric Shock Hazards

·The Generator produces enough electric power to cause a serious shock or electrocution if misused.

·Using a generator or electrical appliance in wet conditions, such as rain or snow, or near a pool or sprinkler system, or when your

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hands are wet, could result in electrocution. Keep the generator dry.

·If the generator is stored outdoors, unprotected from the weather, check all electrical components on the control panel, before each use. Moisture or ice can cause a malfunction or short circuit in electrical components which could result in electrocution.

·Do not connect to a building electrical system unless an isolation switch has been installed by a qualified electrician.

·The circuit maintenance and installation need to be gone on by professional , and meet the following standard;

1) Article 551 of the National Electrical Code ,ANSVNFPA 70-1990,and
2) The standard for Recreational Vehicles, ANSVNFPA 501 C-1990.

SAFETY

Fire and Burn Hazards

·The exhaust system gets hot enough to ignite some materials.

- Keep the generator at least 3 feet (1 meter) away form buildings and other equipment during operation
- Do not enclose the generator in any structure.

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- Keep flammable materials away form the generator.

·The muffler becomes very hot during operation and remains hot for a while after stopping the engine .Be careful not to touch the muffler while it is hot. Let the engine cool before storing the generator indoors.

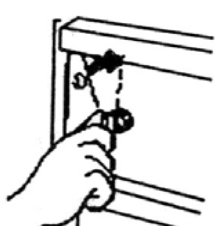
·Gasoline is extremely flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks where the generator is refueled or where gasoline is stored. Refuel in a well-ventilated area with the engine stopped.

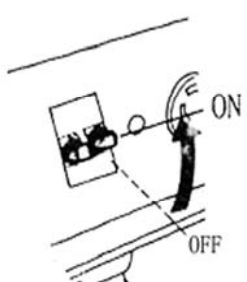
·Fuel vapors are extremely flammable and may ignite after the engine has started. Make sure that any spilled fuel has been wiped up before starting the generator.

CONTROLS

Engine Switch

To start and stop the engine





Switch position:

OFF: To stop the engine.

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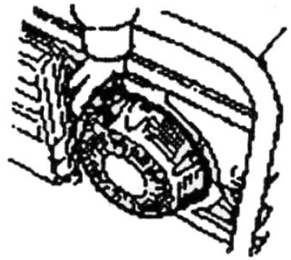
ON: To run the engine. electric start recoil start

START： To start the engine (only for electric start)

NOTICE

If the start motor has not any respond, please check the circuit break off or on.

Recoil Starter



To start the engine, pull the starter grip lightly resistance is felt, then pull briskly.

NOTICE

Do no allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.

CONTROLS

Fuel Valve Lever

The fuel valve is located between the fuel tank and carburetor. When the valve lever is in the ON position, fuel is allowed to flow from the fuel tank to the carburetor. Be sure to return the fuel valve lever to the OFF position after stopping the engine.

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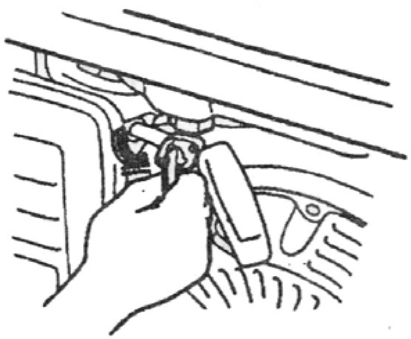

Choke Rod

The choke is used to provide an enriched fuel mixture when starting a cold engine. It can be opened and closed by operating the choke lever manually. Pull the rod out toward CLOSED to enrich the mixture for cold starting.

CONTROLS

Ground Terminal

The generator ground terminal is connected to the frame of the generator, the metal non-current-carrying parts

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of the generator, and the ground terminals of each receptacle.

Before using the ground terminal, consult a qualified electrician, electrical inspector or local agency having jurisdiction for local codes or ordinances that apply to the intended use of the generator.

Oil Alert System

The oil alert system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase can fall below a safe limit, the Oil Alert system will automatically stop the engine (the engine switch will remain in the ON position). The Oil Alert system should not take place of checking the oil level before each use.

If engine stops or not restart, check the engine oil level (see page 26) before troubleshooting in other areas

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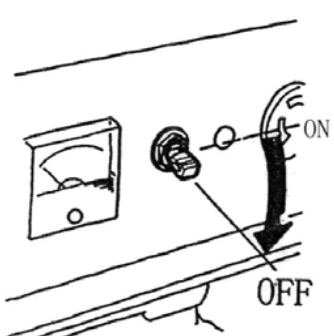
CONTROLS

CIRCUIT BREAKER

The AC circuit breaker will automatically switch OFF if there is a short circuit or a significant overload of the generator at the receptacle.



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If the AC circuit breaker is switched OFF automatically, check that the appliance is working properly and does not exceed the rated load capacity of the AC circuit before switching the circuit breaker ON again.

The circuit breaker may be used to switch the generator AC power ON or OFF.

Voltage selector switch (only for dual voltage system)

The Voltage selector switch switches the main power carrying windings of the generator to produce “120V ONLY” or “120V/240V”. If a 240V appliance is connected to the 4-prong receptacle, the switch must be in the “120/240V” position. If only a 120V appliance is being connected to any of the120V 3-prong receptacles, select the “120V ONLY” position.

Switch Position

120/240V: The 120Vand 120/240V receptacles can be used simultaneously.

120V ONLY: ONLY the 120V receptacles can be used. Do not use the 120/240V receptacle in this position. The most power will be available at the 30A 120V locking plug receptacle.

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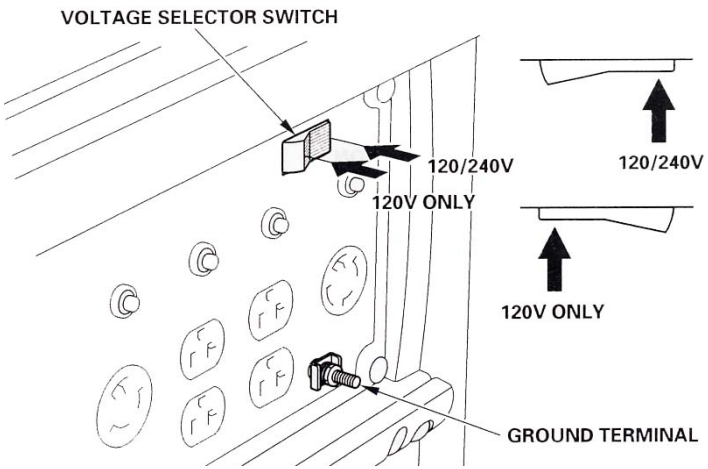

USE

Connections to Building Electrical System

Connections for standby power to a building electrical system must be made by a qualified electrician. The

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connection must isolate the generator power from utility power, and must comply with all applicable laws and electrical codes. A transfer switch, which isolates generator power from utility power, is available through authorized generator dealer.

WARNING

Improper connections to a building electrical system can allow electrical current from the generator to back feed into the utility lines. Such back feed may electrocute utility company workers or others who contact the lines during a power outage, and the generator may explode, burn, or cause fires when utility power is restored. Consult the utility company or a qualified electrician.

Ground Terminal

The generator ground terminal is connected to the frame of the generator, the metal non-current carrying parts of the generator, and ground terminals of each receptacle.

Before using the ground terminal, consult a qualified electrical inspector or local agency having jurisdiction for local codes or ordinances that apply to the intended use of the generator.

GENERATOR USE

AC Applications

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Before connecting an appliance or power cord to the generator:

· Make sure that it is in good working order. Faulty appliances or power cords can create a potential for electrical shock.

·If an appliance begins to operate abnormally, becomes sluggish or stops suddenly, turn it off immediately. Disconnect the appliance, and determine whether the problem is the appliance, or if the rated load capacity of the generator has been exceeded.

·Make sure that the electrical rating of the tool or appliance does not exceed that of the generator. Never exceed the maximum power rating of the generator. Power levels between rated and maximum may be used for no more than 30 minutes.

NOTICE

Substantial overloading will open the circuit breaker. Exceeding the time limit for maximum power operation or slightly overloading the generator may not switch the circuit breaker OFF, but will shorten the service life of the generator.

GENERATOR USE

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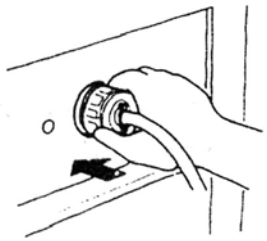
AC OPERATION



1. Start the engine (see page 16).
2. Switch ON the AC circuit breaker.
3. Plug in the appliance .

NOTICE

·Be sure that all appliances are in good working order before connecting them to the generator. If an appliance begins to operate abnormally, becomes sluggish, or stops suddenly, turn off the engine switch immediately. Then disconnect the appliance and examine it for signs of malfunction.

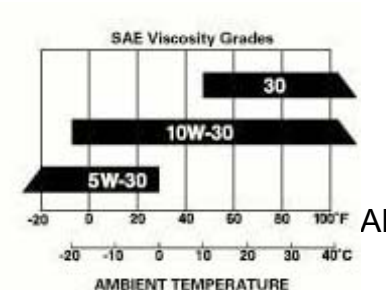
·Most motorized appliances require more that rated wattage for startup. Do not exceed the current limit specified for any one receptacle. If an overloaded circuit causes the AC circuit breaker to switch OFF, reduce the electrical load on the circuit, wait a few minutes and then reset the circuit breaker.

CHECK

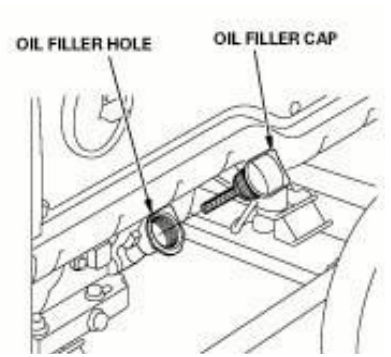
ENGINE OIL

NOTICE

Engine oil is a major factor affecting engine performance and service life. Non-detergent and 2-stroke engine oils will damage the engine and are not recommended.



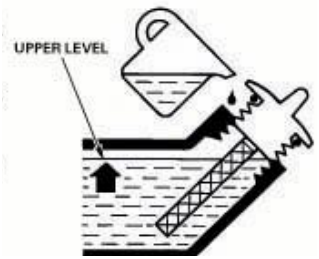
Check the oil level BEFORE EACH USE with the generator on a level surface and the engine stopped.
Use 4-stroke motor oil that meets or exceeds the requirements for service classification SJ. Always check the API SERVICE label on the oil container to be sure it includes the letters SJ.



SAE 10W-30 is recommended for general, all-temperature use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.

CHECK

1. Remove the oil filler cap and wipe the dipstick clean.
2. Check the oil level by inserting the dipstick into the filler neck without screwing it in.
4. If the level is low, fill to the top of the oil filler neck with the recommended oil.



Fuel

Check the fuel gauge, and refill the tank if the fuel level is low.

Refuel carefully to avoid spilling fuel. Do not fill above the shoulder of the fuel strainer.

WARNING

Gasoline is highly flammable and explosive, and you can be burned or seriously injured when refueling.

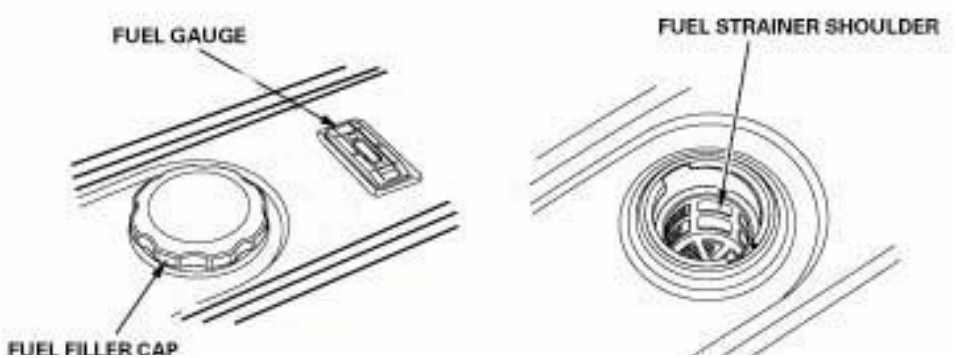
·Stop engine and keep heat, sparks, and flame away.

·Refuel only outdoors.

·Wipe up spills immediately.

Fuel tank capacity:

25L (6.6 US gal)



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CHECK

NOTICE

Fuel can damage paint and plastic. Be careful not to spill fuel when filing your fuel tank. Damage caused by spilling fuel is not covered under warranty.

Use unleaded gasoline with a pump octane of 86 or higher.

This engine is certified to operate on unleaded gasoline.

Unleaded gasoline produces fewer engine and spark plug deposits and extends exhaust system life,

Never use stale or contaminated gasoline or oil/gasoline mixture.

Avoid getting dirt or water in the fuel tank.

Occasionally you may hear a light “Spark knock” or “pinging”(metallic rapping noise) while operating under heavy loads. This is no cause for concern.

If spark knock or pinging occurs at a steady engine speed, under normal load, change brands of gasoline. If spark knock or pinging persists, see an authorized to manual.

NOTICE

Running the engine with persistent spark knock or pinging is misuse, and the Distributor’s Limited Warranty dies

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not cover parts damaged by misuse.

STARTING THE ENGINE/STOPPING THE ENGINE

Starting the Engine

1. Make sure that the AC circuit breaker is in the OFF position. The generator may be hard to start if a load is connected.
2. Turn the fuel valve lever to the ON position.
3. Turn the choke rod to the CLOSED position.
4. Move the engine switch to the ON position.
5. Pull the starter grip lightly until resistance is felt, then pull briskly.

NOTICE

Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter or housing.

6. As the engine warms up, slowly push the choke rod to the OPEN position.

Stopping the engine

In an emergency:

To stop the generator in an emergency, turn the engine switch to the OFF position.

In normal use:

1. Turn the AC circuit breaker to the OFF position.

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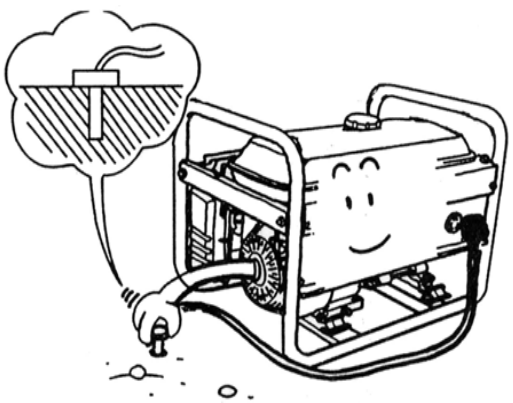
2. Turn the engine switch to the OFF position.
3. Turn the fuel valve lever to the OFF position.

SERVICE

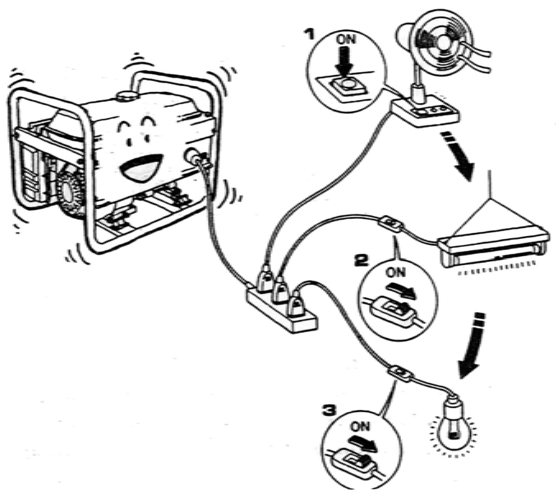
Always do as the following so as to keep the generator in a sound condition.

WARNING

1. Always connect the generator to the earth or the Recreational vechicle to prevent misusing with wire.



2.If the generator is to supply tow or above loads with power supply, be sure to connect them one with higher start current fist.



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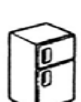
Don’t move the earth wire during normal maintenance or repair.

SERVICE

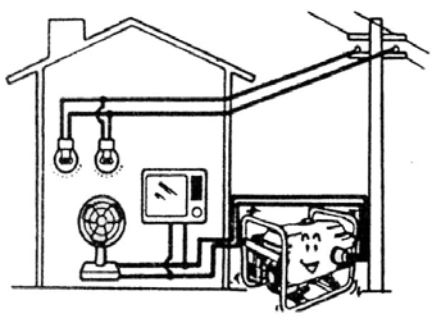
3. The following table gives reference information for connecting the electric appliances to the generator.

Description	Wattage		Typifier	Example		
	Start	Rating		Electric device	Start	Rating
●Incandescent lamp ●Heating device	×1	×1	 Incandescent lamp  TV	 Incandescent lamp 100W	100V A (W)	100V A (W)
●Fluorescent lamp	×2	×1.5	 Fluorescent lamp	 40W Fluorescent lamp	80V A (W)	60V A (W)
●Drive device	×3~5	×2	 Refrigentor  Electric fan	 Refrigerator 150W	450~750V A (W)	300V A (W)

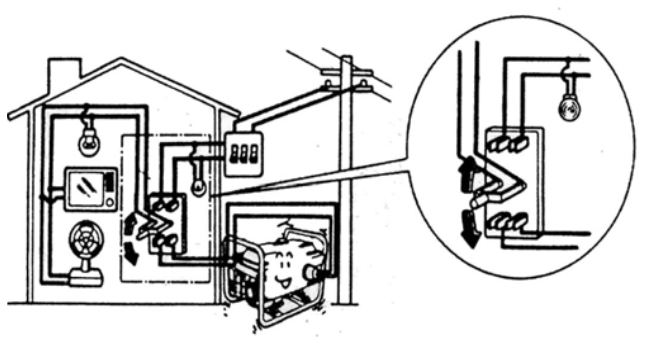
SERVICE

4. Connecting methods are illustrated as follow.

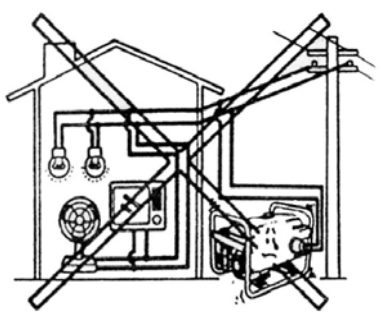
a) Correct



b) Correct



c) Forbidden



WARNING

When connect the generator home power supply, be sure that a skilled electrician dose this job. Improper connecting between the generator and

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loads may cause damage to the generator,

even a fire.

MAINTENANCE

The Importance of maintenance

Good maintenance is essential for safe, economical, and trouble-tree operation. It will also help reduce air pollution.

WARNING

Improper maintenance, or failure to correct a problem before operation, can cause malfunction in with you can be seriously hurt or killed.

Always follow the inspection and maintenance recommendations and schedules in this owner's manual.

To help you properly care for your generator, the following pages include a maintenance schedule, routine inspection procedures, and simple maintenance procedures using basic hand tools. Other service tasks that are more difficult, or require special tools, are best handled by professionals and are normally preformed by generators or other qualified mechanic.

The maintenance schedule applies to normal operating conditions. If you operate your generator under sever conditions, such as sustained high-load or high-temperature operation, or use it in unusually wet or dusty conditions, consult your servicing needs and use.

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Maintenance, replacement, or repair of the emission control devices and systems may be preformed by any engine repair establishment or individual, using parts that are “certified” to EPA standards.

Maintenance Safety

Some of the most important safety precautions follow. However, we can not warn you of every conceivable hazard that can arise in performing maintenance. Only you can decide whether or not you should perform a given task.

WARNING

Failure to properly follow maintenance instructions and precautions can cause you to be seriously hurt or killed. Always follow the procedures and precautions in the owner’s manual.

Safety precautions

·Make sure the engine is off before you begin any maintenance or repairs. This will eliminate several potential hazards:

----**Carbon monoxide poisoning from engine exhaust.**

Be sure there is adequate ventilation whenever you operate the engine.

----**Burns from hot parts.**

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Let the engine and exhaust system cool before touching.

MAINTENANCE

----Injury from moving parts.

Do not run the engine unless instructed to do so.

·Read the instructions before you begin, and make sure you have the tools and skills required.

·To reduce the possibility of fire of explosion. be careful when working around gasoline. Use only a nonflammable solvent, not gasoline, to clean parts. Keep cigarettes, sparks and flames away from all fuel-related parts.

Remember that your servicing dealer knows your generator best and is fully equipped to maintain and repair it.

To ensure the best quality and reliability, use only new, genuine parts or their equivalents for repair or replacement.

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Emission Control System Information

Soured of Emissions

The combustion process produces carbon monoxide, oxides of nitrogen, and hydrocarbons. Control of hydrocarbons and oxides of nitrogen is very important because, under certain conditions, they react to form photochemical smog when subjected to sunlight, Carbon monoxide does not react in the same way, but it is toxic.

Engine utilizes lean carburetor setting and other systems to reduce the emissions of carbon monoxide, oxides of nitrogen, and hydrocarbons.

Tampering and Altering

Tampering with or altering the emission control system may increase emissions beyond the legal limit. Among those acts that constitute tampering are:

·Removal or alteration of any part of the intake , fuel , or exhaust systems.

·Altering or defeating the governor linkage or speed-adjusting mechanism to cause the engine to operate outside its design parameters.

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Problems That May Affect Emissions

If you are aware of any of the following symptoms, have your engine inspected and repaired by your servicing dealer.

·Hard starting or stalling after starting.
·Rough idle.
·Misfiring or backfiring under load.
·Afterburning(backfiring).
·Black exhaust smoke or high fuel consumption.

Replacement Parts

The emission control systems on your generators were designed, built, and certified to conform with EPA and California emission regulations. We recommend the use of generators parts whenever you have maintenance done. These original-design replacement parts are manufactured to the same standards as the original parts, so you can be confident of their performance. The use of replacement parts that are not of the original design and quality may impair the effectiveness of your emission control system.

A manufacturer of an aftermarket part assumes the responsibility that the part will not adversely affect emission performance. The manufacturer or rebuild of the part must certify that use of the part will not result in a failure of the engine to comply with emission regulations.

Maintenance

Follow the maintenance schedule on page 12.Remenber that this schedule is based on the assumption that your machine will be used for its designed purpose. Sustained high-load or high-temperature operation, or use in unusually wet or dusty conditions, will require more frequent service.

Maintenance Schedule

REGULAR SERVICE PERIOD (3) ITEM Performed at every indicated Month or operating hour interval, whichever comes fist			Before each use	Fist month or 20 Hrs.	Every 3 months or 50 Hrs.	Every 6 months or 100 Hrs.	Every year or 300 Hrs.
·	Engine oil	Check level	○				
		Change		○		○	
·	Air filter	Check	○				
		Clean			○(1)		
		Replace					○*
·	Spark plug	Check-adjust				○	
		Replace					○
	Spark arrester	Clean				○	
·	Idle speed	Check-adjust					○(2)
·	Valve clearance	Check-adjust					○(2)
·	Combustion chamber	Clean	After every 500Hrs. (2)				
·	Fuel tank and filter	Clean				○(2)	
·	Fuel tube	Check	Every 2 years (Replace if necessary) (2)				

·Emission related items.

(1) Service more frequently when used in dusty areas.

(2) These items should be serviced by an authorized generator dealer, unless the owner has the proper tools and is mechanically proficient. See the Shop Manual.

(3) For commercial use, long hours of operation to determine proper maintenance intervals.

ENGINE OIL CHANGE

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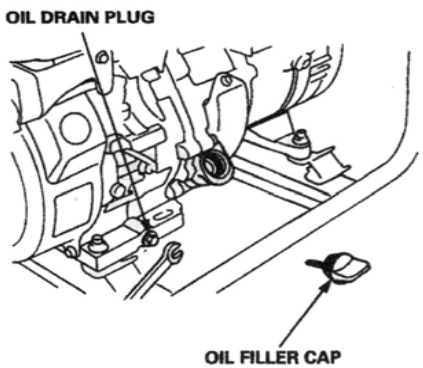
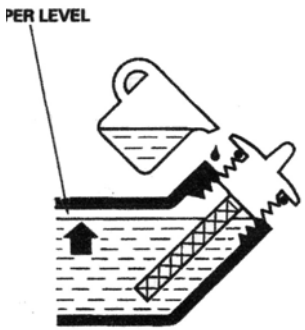
Drain the oil while the engine is warm to assure rapid and complete draining.

1. Remove the drain plug and sealing washer, remove the oil filler cap, and drain the oil.
2. Reinstall the drain plug and sealing washer. Tighten the plug securely.
3. Refill with the recommended oil (see page 14) and check the oil lever.

Oil capacity:

1.1l (1.2US qt)





Wash your hands with soap and water after handing used oil.

Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local service station or recycling center for reclamation. Do not throw it in the trash, pour it on the ground, or down a drain.

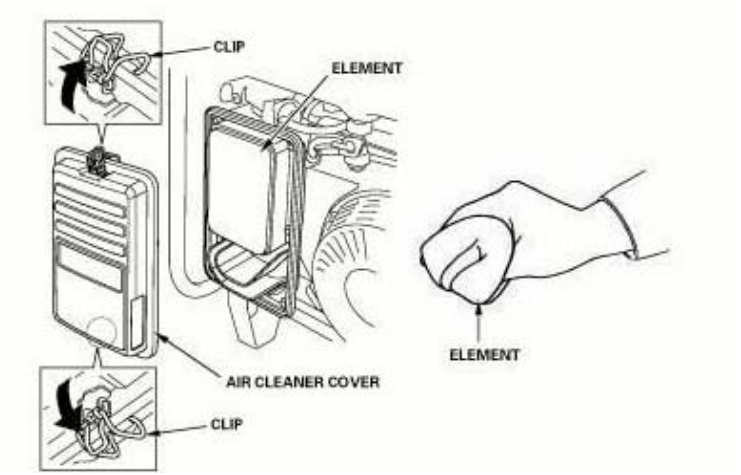
Air Cleaner Service

A dirty air cleaner will restrict air flow to the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operation the generator in extremely dusty areas.

NOTICE

Never run the generator without the air filter. Rapid engine wear will result.

1. Unsnap the air cleaner cover clips, remove the air cleaner cover, and remove the element.
2. Wash the air cleaner element in a solution of household detergent and warm water, then rinse thoroughly, or wash in nonflammable or high flashpoint solvent. Allow the air cleaner element to dry thoroughly.
3. Soak the air cleaner element in clean engine oil and squeeze out the excess oil. The engine will smoke during initial startup it too much oil is left in the air cleaner element.
4. Reinstall the air cleaner element and the cover.

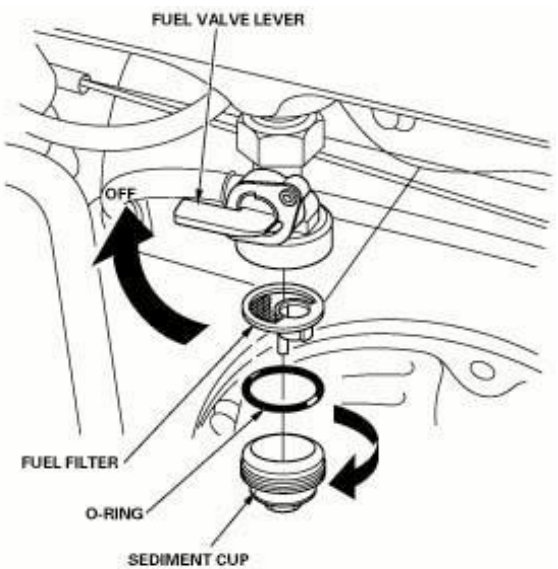


Fuel Sediment Cup Cleaning

-

The sediment cup prevents dirt or water which may be in the fuel tank from entering the carburetor. If the engine has not been run for a long time, the sediment cup should be cleaned.

1. Turn the fuel valve lever to the OFF position. Remove the sediment cup, O-ring, and filter.
2. Clean the sediment cup, O-ring, and filter in nonflammable or high flash point solvent.
3. Reinstall the filter, O-ring, and sediment cup.
4. Turn the fuel valve lever ON and check for leaks.



Spark Plug Service

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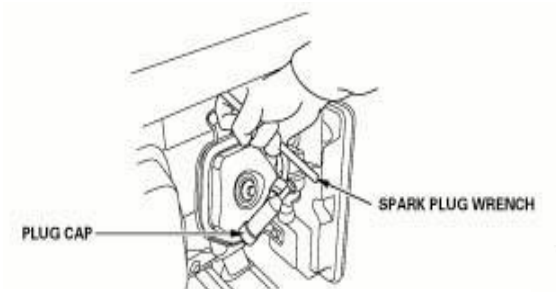
In order to service the spark plug, you will need a spark plug wrench (commercially available).

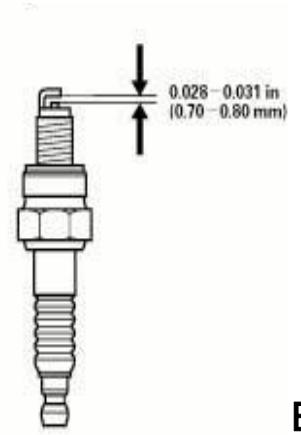
Recommended spark plugs: NHSP LD F7TC

To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

If the engine has been running, the muffler will be very hot. Be careful not to touch the muffler.

1. Remove the spark plug cap.
2. Clean any dirt from around the spark plug base.
3. Use a spark plug wrench to remove the spark plug.
4. Visually inspect the spark plug. Discard it if the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.
5. Measure the plug gap with a feeler gauge. Correct as necessary by carefully bending the side electrode.





The gap should be: 0.70-0.80 mm (0.028-0.031 in)

E

6. Check that the spark plug washer is in good condition, and thread the spark plug in by hand to prevent

-

cross-threading.

7. After the spark plug is seated, tighten with a spark plug wrench to compress the washer.

-If installing a new spark plug, tighten 1/2turn after the spark plug seats to compress the washer. If reinstalling a used spark plug, tighten 1/8-1/4 turn after the spark plug seats to compress the washer.

NOTICE

The spark plug must be securely tightened. An improperly tightened spark plug can become very hot and could damage the engine.

Never use spark plugs which have an improper heat range. Use only the recommended spark plugs or equivalent.

Spark Arrester Maintenance

If the generator has been running, the muffler will be very hot. Allow it to cool before proceeding.

NOTICE

The spark arrester must be serviced every 100 hours to maintain its efficiency.

Clean the spark arrester as follows:

-

1. Loosen the screw by the exhaust port of the muffler and remove the spark arrester.
2. Use a brush to remove carbon deposits from the spark arrester screen.
   Inspect the screen for breaks or tears and replace it if necessary.
3. Install the spark arrester in the reverse order of removal.

TRANSPORTING/STORAGE

-

When transporting the generator, turn the engine switch and the fuel valve OFF. Keep the generator level to prevent fuel spillage. Fuel vapor or spilled fuel may ignite.

WARNING

Contact with a hot engine or exhaust system can cause serious burns or fires. Let the engine cool before transporting or storing the generator.

Take care not to drop or strike the generator when transporting. Do not place heavy objects on the generator.

Before storing the unit for an extended period:

1. Be sure the storage area is free of excessive humidity and dust.
2. Service according to the table below:

TRANSPORTING/STORAGE

-

STORAGE TIME	RECOMMENDED SERVICE PROCEDURE TO PREVENT HARO STARTING
Less than 1 month	No preparation required
1 to 2 months	Fill with fresh gasoline and add gasoline conditioner*.
2 months to 1 year	Fill with fresh gasoline and add gasoline conditioner*. Drain the carburetor float bowl.
1 year or more	Fill with fresh gasoline and add gasoline conditioner*. Remove the spark plug. Put a tablespoon of engine oil into the cylinder. Turn the engine slowly with the pull rope to distribute the oil. Reinstall the spark plug. Change the engine oil. After removal from storage, drain the stored gasoline into a suitable container, and fill with fresh gasoline before starting.
*Use gasoline conditioners that are formulated to extend storage life. Contact your authorized generator dealer for conditioner recommendations.	

TRANSPORTING/STORAGE

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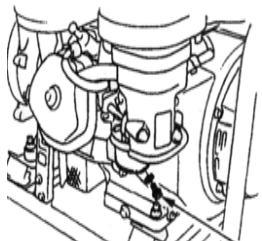


Storage

1、 Drain the carburetor by loosening the screw.

Drain the gasoline into a suitable container.

WARNING

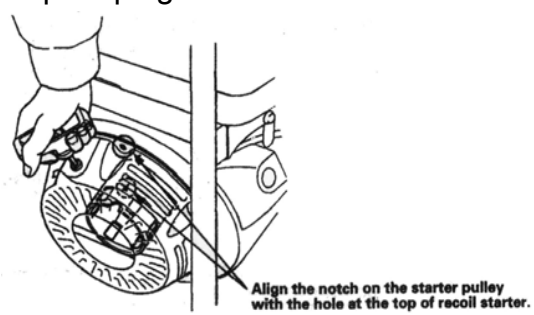
Gasoline is extremely flammable and is explosive under certain conditions. Perform task in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area during this procedure.

2、 Change the engine oil (see page 25-26).

3、 Remove the spark plug, and pour about a tablespoon of clean engine oil into the cylinder. Crank the engine several revolutions to distribute the oil, then reinstall the spark plug.

4、 Slowly pull the starter grip until resistance is felt.

At this point, the piston is coming up on its compression stroke and both the intake and exhaust valves are closed. Storing the engine in this position will help to protect is from internal corrosion.



PARTS

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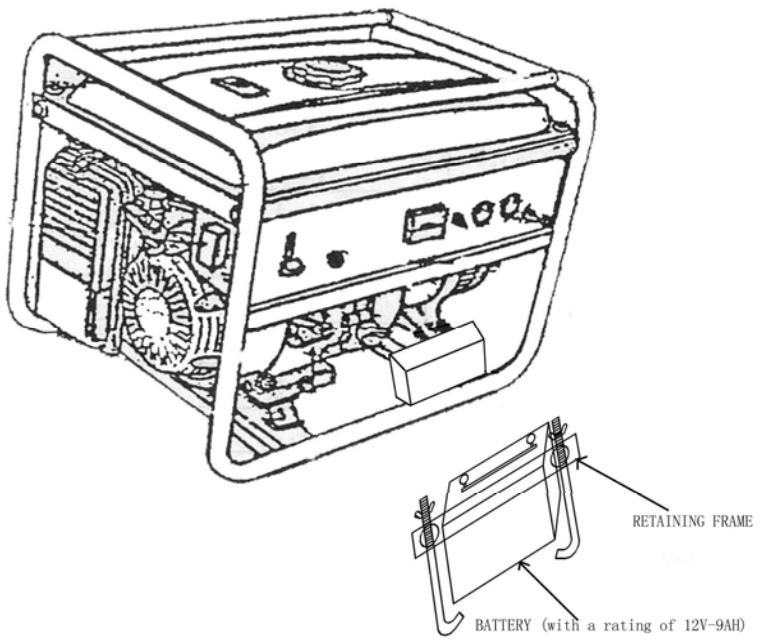
Installation of battery

1. Put the battery on the frame of battery (Note: the pole face inside of the frame).
2. Hang one end of the tie rod in the holes both sides of the battery, then drill the other end through the holes of fixing board.
3. Keep the fixing board to the edge of opposite side of poles.
4. Spin the M6 nut on the tie rod and reinforce it.
5. Connect the anode wire on the anode pole and cover the red rubber lagging on the anode pole. Connect the negative wire on the negative pole and cover the black rubber lagging on the negative pole.



ASSEMBLY OF

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Battery use:

1. The specification of battery recommended: 12V, 9AH
2. Don't connect the anode and negative pole erroneously, when use the battery.
3. The battery need to be injected electrolyte before use.
4. The height of electrolyte need to be inspected each month. When the height is low, please inject distilled water or pure water between upper level and low level (Don't use electrolyte and tap water).
5. The battery need to be clean. If the electrolyte is spattered on the generator set, the grounding and down-lead will be eroded. Please wash them with water if erosion.

WARNING

1. The explosive gas will be happened when use the battery. So don't close with fire, spark and reinforce of grounding and down-lead.
2. The battery includes strong acid. Don't spatter battery on your skin and in your eyes. If it happens, wash your skin or eyes with water right now. if it very serious, go to the doctor for help.
3. Please note that if the battery is smirched by gasoline, oil or organic impregnant, the rind of the battery will be damaged.
4. When replacing the new battery, please send the old battery to recycle bin. Don't discard it optionally.

ASSEMBLY OF

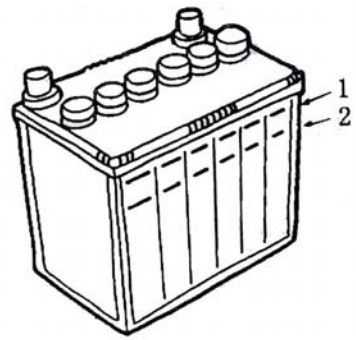
-

PARTS

NOTICES

Check and make sure that the electrolyte level of each battery cell is between is upper and lower level marks

1. upper level mark 2.lower lever mark



In order to extend the life of the accumulator, please
pay attention to the maintenance of the accumulator.
Please inspect the electrolyte surface every month. If the electrolyte surface decreases the lowest or protection board, add distilled water or pure water to the highest surface. Acid, alkali, non-pure water (such as tap water, river water, sea water) are forbidden as supply liquid.
The accumulator after added liquid should be used in time. It should be charged regularly. if hasn't been used for a long time.
Charge requirement of the accumulator: charge 3 – 5hours according to 1/10 current of rated capacity of the accumulator.
Avoid overcharge, overdid charge. Back charge is forbidden.

ASSEMBLY OF

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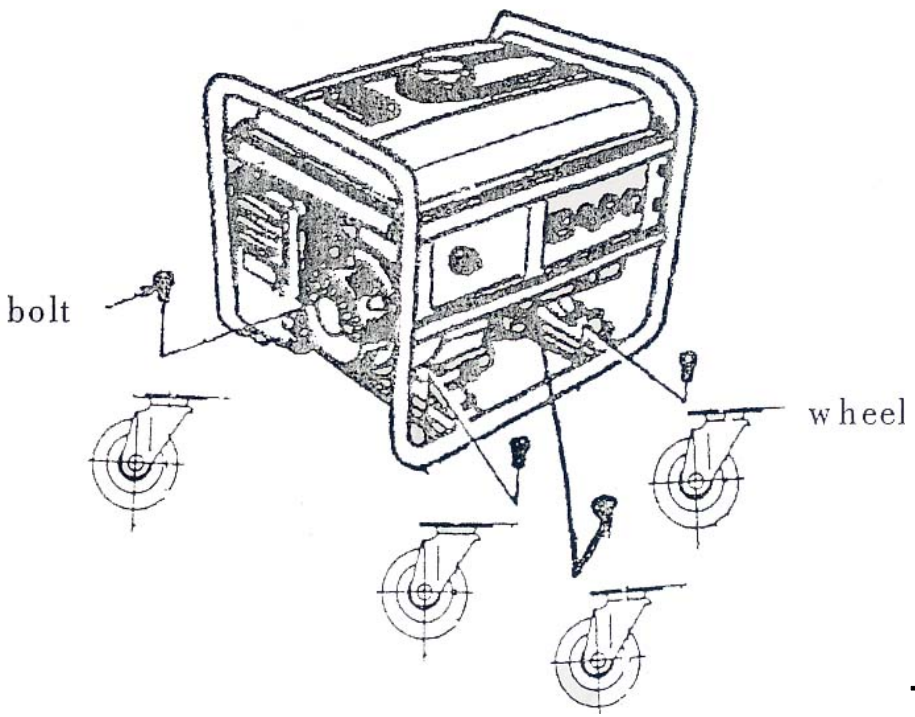
PARTS

Wheel

Fit the four wheels to the generator with bolts and nuts.

Before starting the generator, press the lock system of wheels to prevent displacement during the work time.



TROUBLESHOOTING

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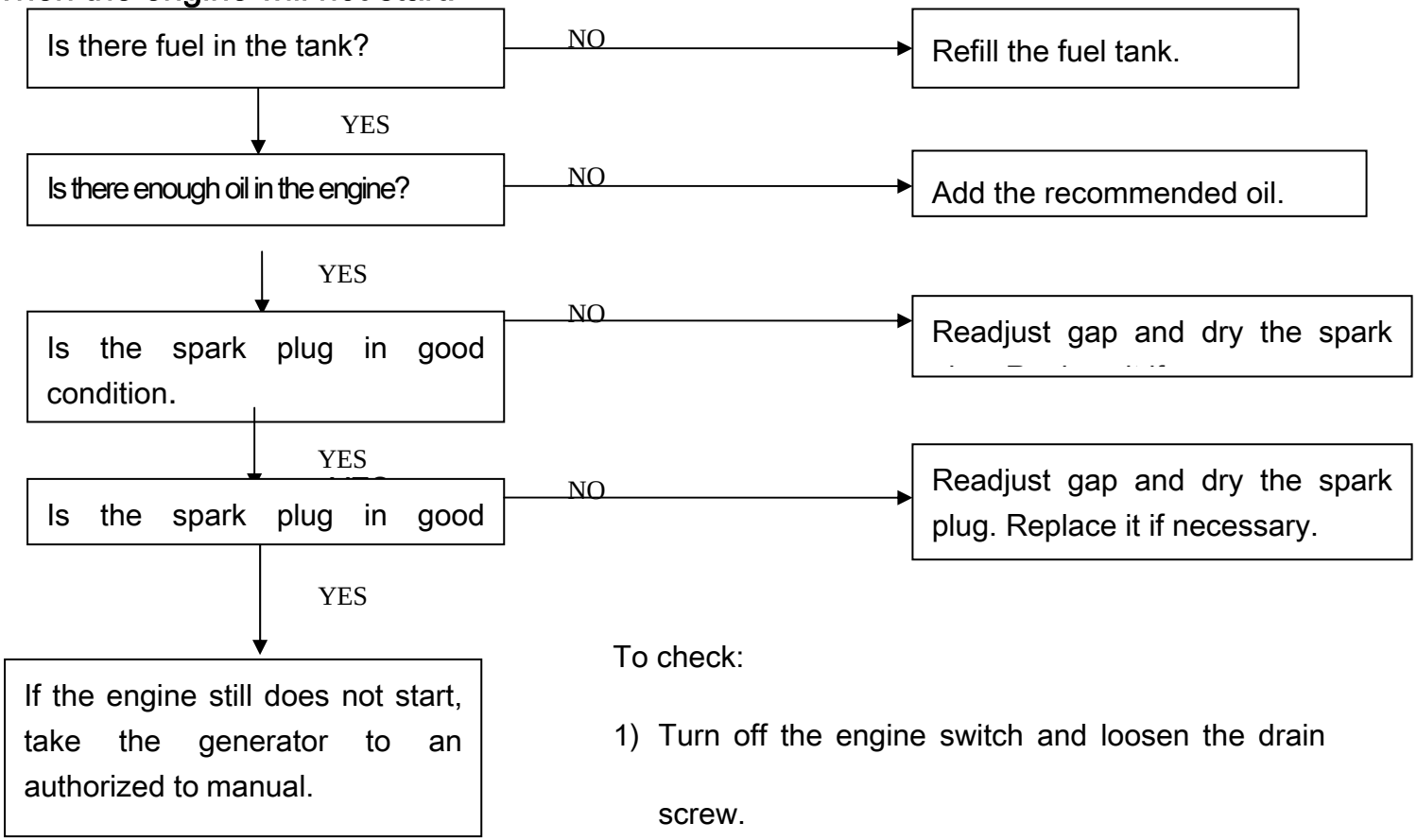
When the engine will not start:



To check:

1) Turn off the engine switch and loosen the drain screw.

-

SPECIFICATIONS

Model		DF3800H DFD3800H DFY3800H	DF5000H DFD5000H DFY5000H	DF6500H DFD6500H DFY6500H	DF8000H DFD8000H DFY8000H	DF9000H DFD9000H DFY9000H
Generator	Rated Frequency	50Hz(60Hz)				
	Rated Power	3.0KW (3.5Kw)	4.0KW (4.5Kw)	5.0KW (5.5Kw)	6.0KW (6.5kw)	7.0KW (7.5KW)
	Max. Power	3.5KW (4.0Kw)	4.5KW (5.0Kw)	5.5KW (6.5Kw)	7.5KW (8.0Kw)	8.0KW (9.0KW)
	Rate Voltage	230V (240V) 120/240V (110/220V)				
	Power Factor	1.0				
Engine	Model	DJ177FD (DJ177FD-B)	DJ188FD (DJ188FD-B)		DJ190FD (DJ190FD-B)	
	Type	4-stroke/air cooling/single cylinder/OHV horizontal shaft				
	Displacement	270cm^3	389cm^3		420 cm^3	
	Ignition Model	Transistorized Magneto				
	Starting Model	Recoil Start (electric start)				
	Max. Output	9HP/3600rmp	13HP/3600rmp		15 HP/3600rmp	
	Fuel Tank Capacity	25L(6.6Gal)				
	Oil Capacity	1.1L(0.29Gal)				
	Continuous Work Time (full load)	8Hr	8Hr	7Hr	7.5Hr	6.5Hr
Generating set	Dimensions (l×w×h)(mm)	700mm×530mm×570mm (890mm×560mm×600mm)				
	Dry Weight (kg)	68kg(78kg)	80kg(92kg)	85kg(97kg)	88kg(98kg)	92kg(103kg)

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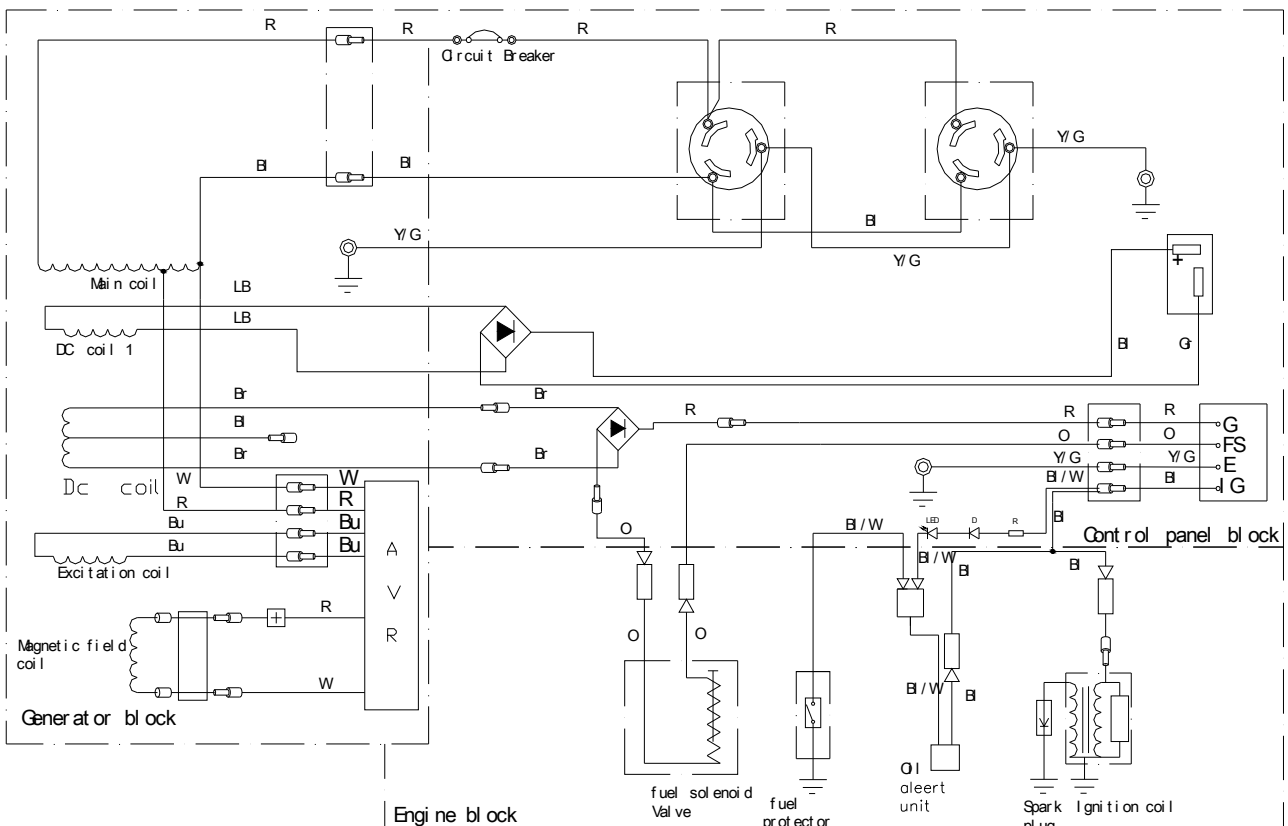


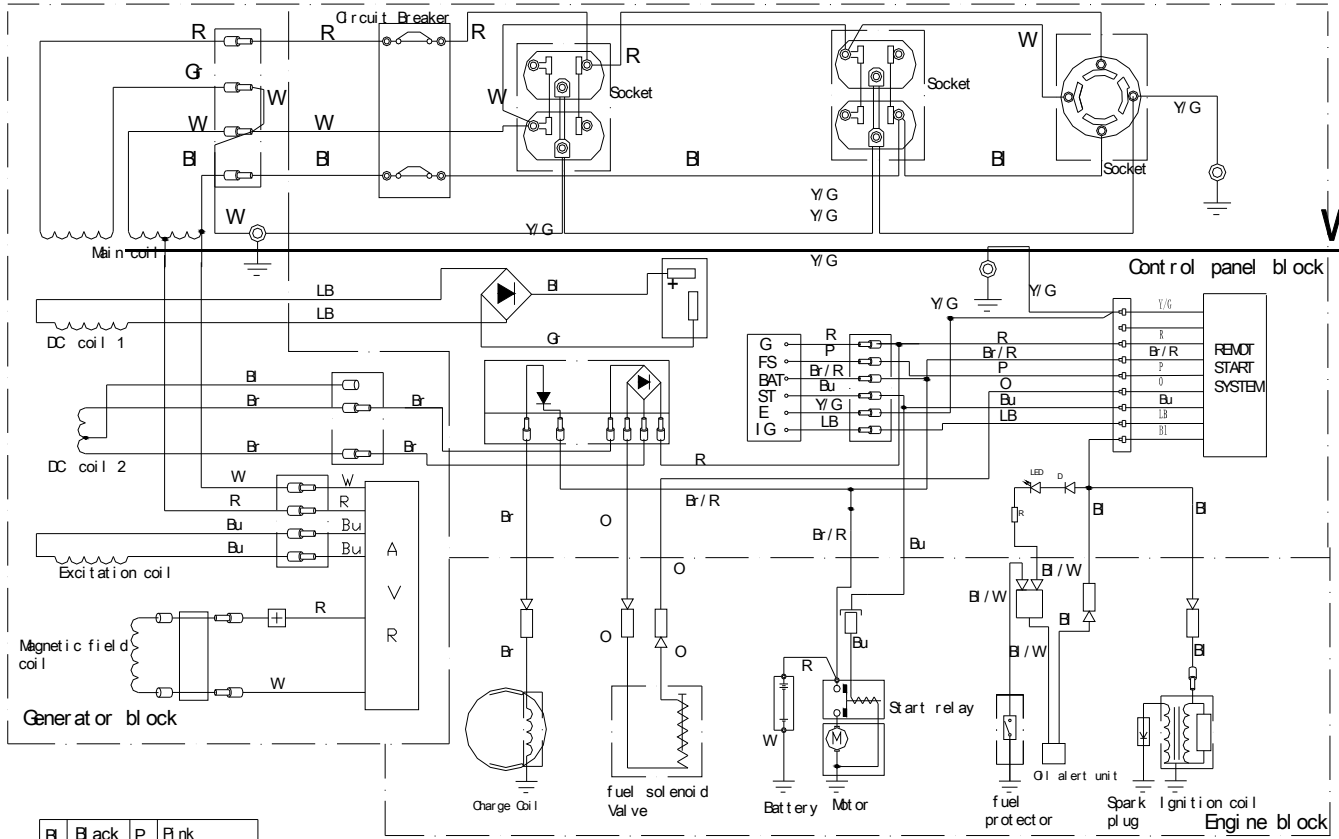
Bl	Black	P	Pink
O	Orange	Br/R	Brown/Red
Bu	Blue	LB	Light blue
Gr	Gray	Y/G	Yellow/Green
R	Red	W	White

Ignition switch connecting

	IG	E	FS	G
ON			o—o	
OFF	o—o			

DF3800H-DF9000H WIRING DIAGRAM
(SINGLE VOLTAGE)

WIRING DIAGRAM



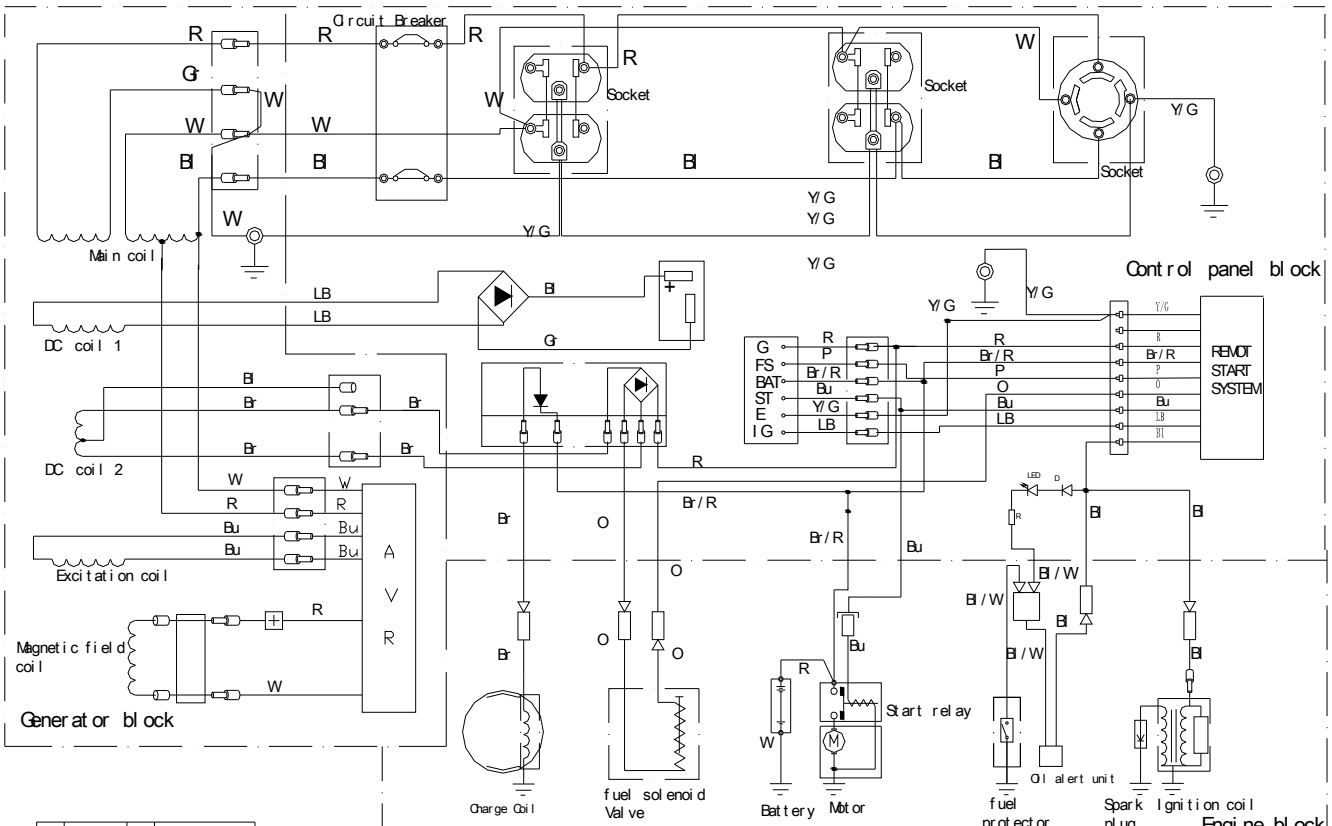
Bl	Black	P	Pink
O	Orange	Br/R	Brown/Red
Bu	Blue	LB	Light blue
Gr	Gray	Y/G	Yellow/Green
R	Red	W	White

Ignition switch connecting

	IG	E	BAT	ST	FS	G
OFF	○	○			○	○
ON						
Start			○	○		

DFY3800H-DFY9000H WIRING DIAGRAM
(DUAL VOLTAGE)

-



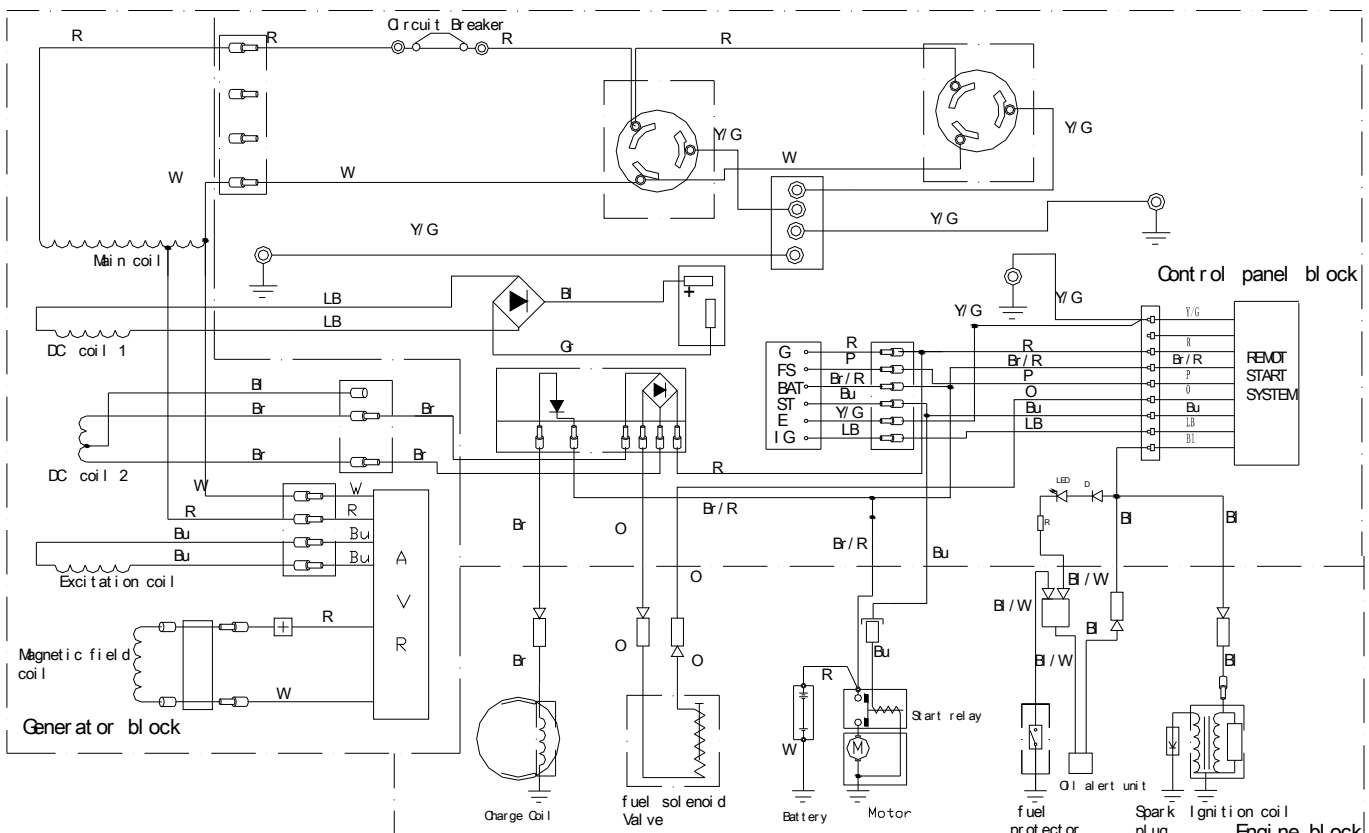
Bl	Black	P	Pink
O	Orange	Br/R	Brown/Red
Bu	Blue	LB	Light blue
Gr	Gray	Y/G	Yellow/Green
R	Red	W	White

Ignition switch connecting

	IG	E	BAT	ST	FS	G
OFF	o	o			o	o
ON						
Start			o	o		

DFY3800H-DFY9000H WIRING DIAGRAM
(DUAL VOLTAGE)

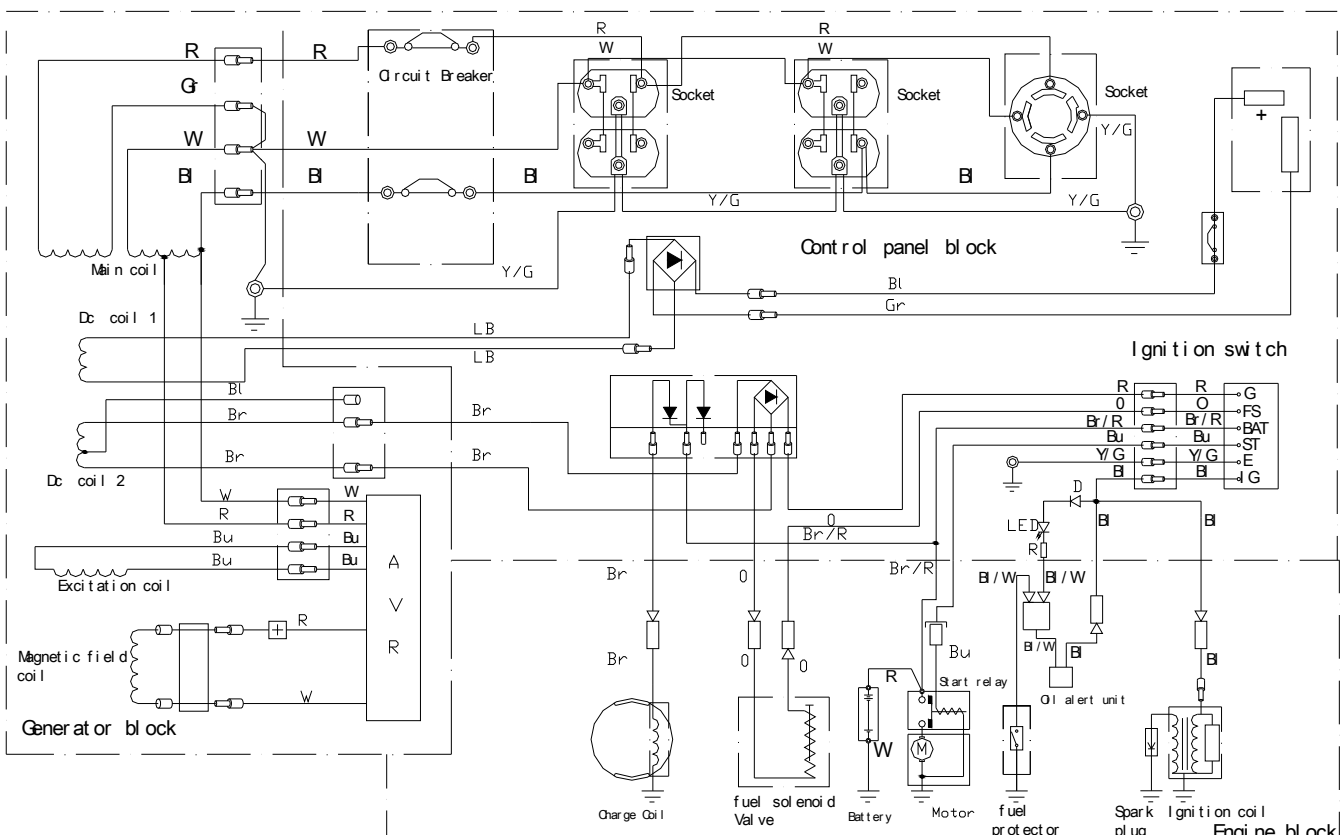
WIRING DIAGRAM



Bl	Black	P	Pink
O	Orange	Br/R	Brown/Red
Bu	Blue	LB	Light blue
Gr	Gray	Y/G	Yellow/Green
R	Red	W	White

DFY3800H-DFY9000H WIRING DIAGRAM
(SINGLE VOLTAGE)

WIRING DIAGRAM

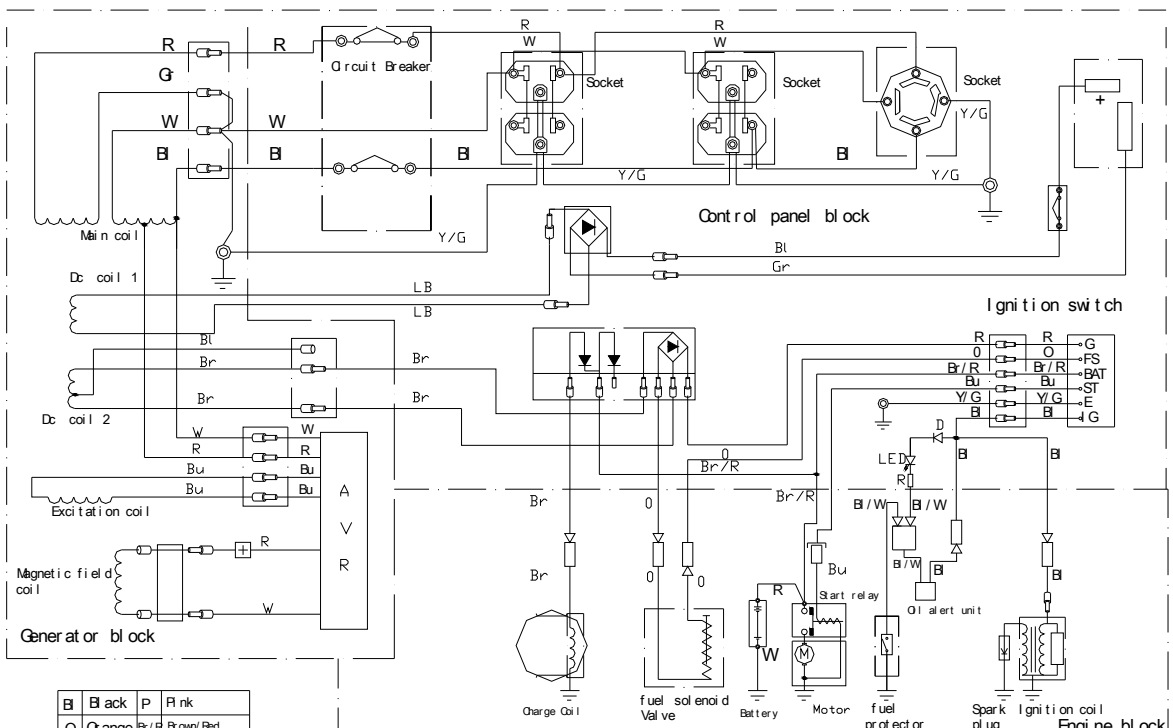


Bl	Black	P	Pink
O	Orange	Br/R	Brown/Red
Bu	Blue	LB	Light blue
Gr	Gray	Y/G	Yellow Green
R	Red	W	White

Ignition switch connecting

	IG	E	BAT	ST	FS	G
OFF	o	o			o	o
ON						
Start			o	o		

DFD8800H-DFD9000H WIRING DIAGRAM
(DUAL VOLTAGE)



Bl	Black	P	Pink
O	Orange	Br/R	Brown/Red
Bu	Blue	LB	Light blue
Gr	Gray	Y/G	Yellow/Green
R	Red	W	White

Ignition switch connecting

	IG	E	BAT	ST	FS	G
OFF	o	o			o	o
ON						
Start			o	o		

DFD3800H-DFD6500H WIRING DIAGRAM
(DOUBLE VOLTAGE)

Intelligence Protect Switch

1. When the load reaches the rated power, indicator light turns green.
2. When the load reaches the maximum power, indicator light runs red, the buzzer alarms.
3. When the load exceeds the maximum power for 1 minute, it automatically switches off the output.
4. Press the switch, the generator set works again.

Automatic Generator System (AGS)

After installation, be sure the machine is not overloaded. Once the electricity goes out, the generator will cut off outside circuit, starting and generating automatically. As the outsides power-supply becomes normal, the generator will cut off itself and connect the circuit automatically.

NOTICE

If machine cannot start, please check that whether the indicator glitters when start the machine. And add oil if it glitters

1. Be sure the load won't be overloaded, then install the generator set;
2. Usually , the AGS switch on the control panel will be on "automatic" position, and the key on "running"

-

position.

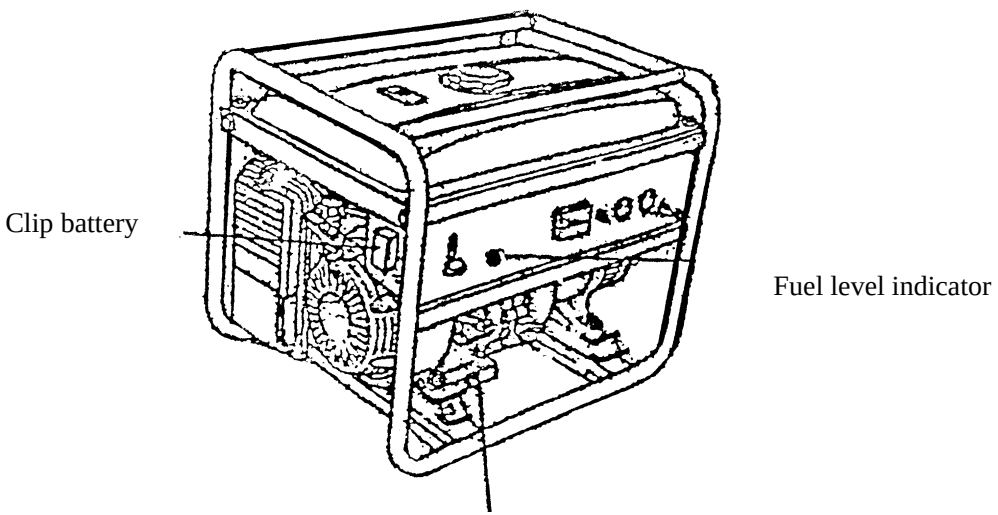
3. To put the choke switch on the “off” position.

OPTIONAL EQUIPMENT

Alarm System

1) The indicator light will be on when oil is insufficient and machine starts, the indicator light will be off when oil is sufficient.

2) When the machine is running, the indicator will be on if the oil is insufficient, the indicator will be off when oil is at critical position.



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Engine No.

remote start:

Aim remote start the gasoline engine (distance between more than 50m).

Requirement:

1. Turn off the machine manually after remote starting is acceptable;
2. Turn off the machine by remote key after manually start is acceptable;
3. Turn off the machine by remote key after remote start is acceptable;
4. Following is not acceptable when manually start and remote start:
   (1) start
   (2) turn off
   (3) connect the fuel electromagnetism valve;
5. Once the remote start broken, manually start will be another option;

-

6. Remote start be useless after start;

7. After recoil start, remote turn off is acceptable;

Min. start voltage:6.2V

When turn off by remote key, it should last 8 seconds.

Remote start should last 4seconds.

WARING

Please make sure the 12V (DC) line connect to battery before starting, otherwise the remote start system will be damaged during machine running.

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INSTRUCTIONS FOR THE WARRANTY CERTIFICATE

1. Keep the certificate well.

2. Be familiar with the warranty details in the certificate.

3. When you draw the certificate, pay attention to items in the certificated filled by your seller.

COMMODITY PURCHASING EVIDENCE

Product name						
Engine No.						
Nameplate						
Purchase date						
Owner inf.	Name		Sex		Age	
			Tel			
	Address					
	Occupation					
	Use site					
Seller inf.	Seller name					
	Address					
	Tel.					

IMPORTANT NOTE

The evidence will be kept as one of the owner's inportant documents, so, be sure to give the evidence to the seller.

TO OWNERS:

When purchasing a new product in a seller, be sure to read carefully the following in the table and be sure to make a mark O beside the description which you have understand, at last, sign your name.

Agree with all the details contained in the warranty certificate and accept them

Check	Product instruments from the seller
1	Parts and operation instruments
2	Pre-running check of the generato-
3	Starting up procedure
4	Generator dismantlement
5	Stopping procedure
6	Accept regular inspection
7	Simple check and maintenance
8	Maintenance under long-term nonuse
9	Check before maintenance request
10	Power supply range applicable

(This sheet is for our co.)

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Engine No.						
Nameplate						
Purchase date						
Owner inf.	Name		Sex		Age	
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	Address					
	Occupation					
	Use site					
Seller inf.	Seller name					
	Address					
	Tel.					

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Product name						
Engine No.						
Nameplate						
Purchase date						
Owner inf.	Name		Sex		Age	
			Tel			
	Address					
	Occupation					
	Use site					
Seller inf.	Seller name					
	Address					
	Tel.					

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