

Fig.A1





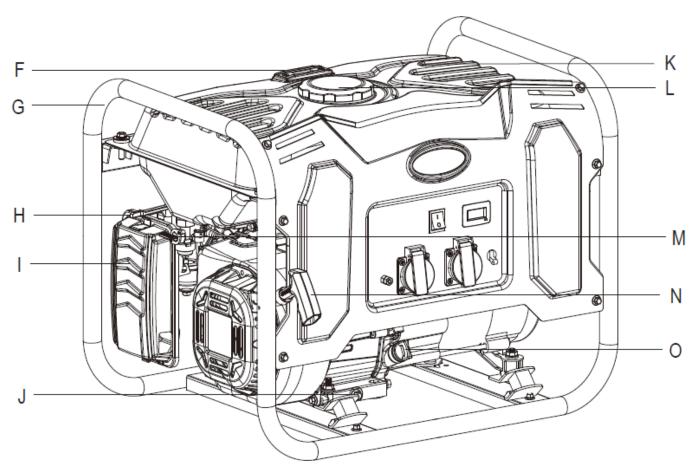


Fig. A2

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FG3050P / FG4050P / FG4650P

EN



# **GASOLINE GENERATOR** FG3050P / FG4050P / FG4650P

Thank you for purchasing this superior quality portable generator from Ford Power Equipment. When operating and maintaining this product as instructed in this manual, your generator will give you many years of reliable service.

#### 1 APPLICATION

This generator is an engine-driven, revolving field, alternating current (AC) portable generator. It is designed to supply electrical power to operate tools, appliances, camping equipment, lighting, or serve as a back-up power source during power outages. It is not designed for professional use.



WARNING! Please read and understand this operating manual before use and keep it for your future reference. Your power tool should only be passed on together with these instructions.

#### SAVE THIS MANUAL FOR FUTURE REFERENCE

This manual contains important information regarding safety, operation, and maintenance.

## 2 DESCRIPTION (FIG. A1 & A2)

A. - Grounding stud D. - Main circuit breaker

B. - ON/OFF switch E. - Outlets

C. - VFT meter (Voltage, Frequency, Time (hours)

F. - Fuel gauge K. - Fuel tank L. - Fuel fill cap G. - Generator frame

M. - Fuel valve (ON/OFF) H. - Choke lever - Air filter N. - Recoil starter grip

J. - Oil drain plug O. - Oil fill (dipstick)

## 3 PACKAGE CONTENT LIST

#### Unpacking

- Place box on a level surface
- Remove all items from box except the generator. Make sure all items listed on the packing list are included and not damaged.
- Cut down the sides of the box being careful to avoid hitting the generator.
- Check all loose parts to the following list. Contact your dealer if any loose parts are not included.



WARNING Packing materials are no toys! Children must not play with plastic bags! Danger of suffocation!

Description	Qty
Generator	1
Quick Start Guide	1
Spark Plug Wrench	1
Toolkit / sparkplug wrench	1
Funnel	1





## **4 SAFETY SYMBOLS**

The following symbols are used in this manual and/or on the machine:

WARNING!	Indicates a potentially hazardous situation which could result in serious injury or death if not avoided.
CAUTION!	Indicates a potentially hazardous situation which could result in damage to equipment or property.

C€	In accordance with essential requirements of the European directive(s)	<b>(3)</b>	Read manual before use
	Toxic Fumes	4	Risk of electric shock
	Risk of fire		Hot surface
	Risk of explosion		Lifting hazard

## **5 SAFETY INSTRUCTIONS**

The manufacturer cannot anticipate every possible hazardous circumstance that the user may encounter. Therefore, the warnings in this manual, on tags, and on affixed decals are not all-inclusive. To avoid accidents, the user must understand and follow all manual instructions and use common sense.



WARNING! Read and understand this manual in its entirety before operating this generator. Improper use of this generator could result in serious injury or death.



WARNING! Do not operate indoors or in a confined space preventing dangerous carbon monoxide gas from dissipating.

- Using a generator indoors WILL KILL YOU IN MINUTES!
- Carbon monoxide gas is a poisonous, odourless gas that can cause headache, confusion, fatigue, nausea, fainting, sickness, seizures, or death. If you start to experience any of these symptoms,
   IMMEDIATELY get fresh air and seek medical attention.
- Never use indoors, in a covered area, or in a confined space. Even if doors and windows are open.
- Install a battery operated carbon monoxide alarm near bedrooms.
- Keep exhaust from this unit from entering a confined area through windows, doors, vents, or other openings.
- When working in areas where vapours could be inhaled, use a respirator mask according to all of its instructions.



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WARNING! Engine exhaust contains chemicals that lead to cause cancer and birth defects.

Always wash hands after handling generator



WARNING! To reduce the risk of serious injury, avoid attempting to lift the generator alone



WARNING! Never exceed generator's wattage/amperage capacity. This could damage the generator and/or connected electrical devices.

• Check operating voltage and frequency requirements of all electrical devices prior to plugging them into the generator.



WARNING! Never start or stop engine with electrical devices plugged in to the receptacles. Failure to do so could damage the generator and / or connected electrical devices.

- Always start the engine and let it stabilize before connecting any electronic devices.
- Disconnect all electronic devices before stopping the engine.



WARNING! Starter and other moving parts can catch on clothing, jewellery, and hair.

- Do not wear loose clothing or gloves.
- Remove jewellery or anything else that could be caught in moving parts.
- Tie back or wear protective head covering to contain long hair.



Keep engine away from flammable objects and other

- The fuel and its vapours used to power this unit are highly flammable and could explode resulting in serious injury or death.
- Never fill or drain fuel tank indoors.
- Never overfill fuel tank. If fuel spills, move the unit at least 30 feet away from the spill and wipe up any remaining fuel on the unit before starting the engine.
- Never smoke while operating or fuelling this unit.
- Never operate or store this unit near an open flame, heat, or any other ignition source.
- Generator should have at least 5 feet of clearance from buildings or other equipment during operation.
- Keep engine free of grass, leaves, or grease which are flammable.
- When adding or draining fuel, unit should be turned off for at least 2 minutes to cool before removing fuel cap.
- If unit has been running then the fuel cap is under pressure, remove slowly.
- To keep fuel from spilling, secure unit so it cannot tip while operating or transporting.
- When transporting unit, disconnect the spark plug wire and make sure the fuel tank is empty with the fuel shut-off valve turned to the off position.



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WARNING! Pull cord recoils rapidly and pulls arm towards engine faster than you can let go which could result in injury.

• To avoid recoil, pull starter cord slowly until resistance is felt, then pull rapidly.







Avoid contacting hot areas of this unit.

- Use caution around the muffler, cylinder, and other engine parts as they can be extremely hot.
- Allow hot components to cool before touching.



WARNING! This generator produces a very high voltage which could result in burns or electrocution causing serious injury or death.

- Never handle the generator, electronic devices, or any cord while standing in water, while barefoot, or when hands or feet are wet.
- Always keep the generator dry. Never operate generator in rain or under wet conditions.
- Never plug electronic devices into generator having frayed, worn, or bare wires. Never touch bare wires or make contact with receptacles.
- Never permit a child or unqualified person to operate generator. Keep children a minimum of 10 feet away from the generator at all times.
- If using the generator for back-up power, notify the utility company.
- If connecting generator to a building's electrical system for standby power, you must use a qualified electrician to install a transfer switch. Failure to isolate the generator from the power utility could result in serious injury or death to electric utility workers.



WARNING



Generator must be properly grounded to prevent electrocution.

- Only operate generator on a level surface.
- Always connect the nut and ground terminal on the frame to an appropriate ground source.



WARNING! Never modify this unit in any way or modify governed speed.

- Increasing governing speed is dangerous which can result in personal injury and / or damaged equipment.
- Decreasing governing speed adds an excessive load and can damage equipment.
- Only when operating at the preset governing speed will this generator will supply the correct rated frequency and voltage.



WARNING! Only use this unit as intended or serious injury or death could result.

- Do not bypass any safety device. Moving parts are covered with guards. Make sure all protective covers are in place.
- Never transport or make adjustments to this unit while it is running.
- Never insert objects through cooling slots.







WARNING! Never operate this unit if there are any broken or missing parts and only use Ford Power Equipment replacement parts specifically designed for this unit.

- Improper treatment of generator can damage the unit and shorten its life.
- Always repair this unit as specified in this manual. If you have any questions contact your dealer or consult a qualified service centre.
- Shut generator off if electrical output is missing, unit vibrates excessively or begins to smoke, spark or emit flames.

## **6 ASSEMBLY**

## 6.1 Remove shipping bracket (See Fig. 1)

• Remove and discard the RED shipping bracket and mounting hardware before starting the Generator.

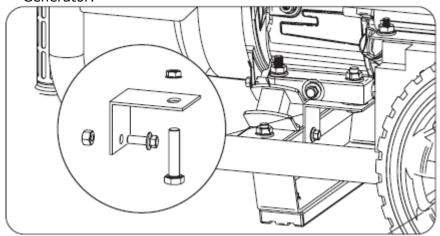


Fig. 1

## 6.2 Recoil starting (Fig. 2)

Attach the Recoil Starter Grip to the bracket

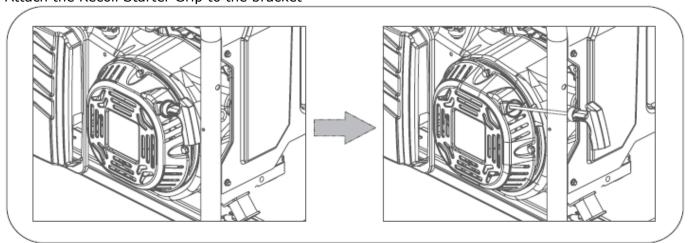


Fig. 2



### 6.3 Adding / Checking engine oil (See Fig. 3)

- Place generator on a level surface.
- Remove the crankcase dipstick to ensure you do not overfill the engine.
- Insert a funnel into the crankcase dipstick hold and carefully add 4-Cycle engine oil (SAE10W- 30) to empty reservoir until oil reaches the outer edge of the oil fill hole (crankcase dipstick hole).
- Be sure to replace dipstick before attempting to start the engine.
- To check oil, set generator on a level surface, wipe dipstick clean, then reinsert dipstick without rethreading.

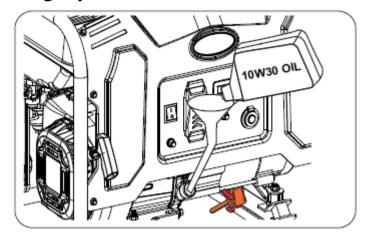


Fig. 3

## 6.4 Adding fuel (See Fig. 4)

- Set generator on a clean and level surface in an area that is well ventilated.
- Remove fuel cap.
- Insert a funnel into the fuel tank and carefully pour gasoline into the tank until fuel level reaches 1 % inches below the top of the neck. Be careful not to overfill the tank to provide space for fuel expansion.

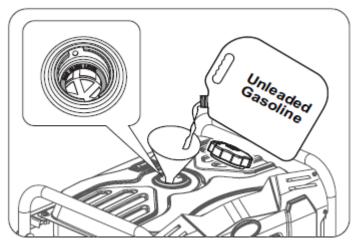


Fig. 4



CAUTION! You must add oil before first operating this generator. Always check oil level before each operation.

DO NOT USE LEADED FUEL IN THIS UNIT. IT WILL DAMAGE THE UNIT AND VOID YOUR WARRANTY.

#### 6.5 Connecting generator to an electrical system

• If connecting generator to a building's electrical system for standby power, you must use a qualified electrician to install a transfer switch. The power from the generator must be isolated from the circuit breaker or alternative power source. The connection must comply with all electrical codes and applicable laws.



WARNING! This generator produces a very high voltage which could result in burn or electrocution causing serious injury or death.

- Never handle the generator, electronic devices, or any cord while standing in water, while barefoot, or when hands or feet are wet.
- Always keep the generator dry. Never operate generator in rain or under wet conditions.

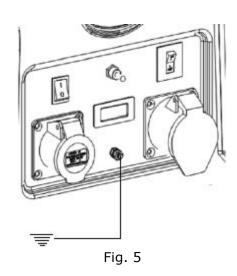


- Use a ground fault circuit interrupter GFCI (North America) or RCD (EU) in a damp or highly conductive area, such as metal decking or steel work.
- Never plug electronic devices into generator having frayed, worn, or bare wires. Never touch bare wires or make contact with receptacles.
- Never permit a child or unqualified person to operate generator. Keep children a minimum of 10 feet away from the generator at all times.
- If using the generator for back-up power, notify the utility company.
- If connecting generator to a building's electrical system for standby power, you must use a qualified electrician to install a transfer switch. Failure to isolate the generator from the power utility could result in serious injury or death to electric utility workers.

## 7 OPERATING INSTRUCTIONS

## 7.1 Grounding the Generator (See Fig. 5)

The ground terminal located on the back of the generator frame must always be used to connect generator to a driven ground rod. Connect the ground terminal to the driven ground rod with a No 8 AWG (American Wire Gauge) copper wire. The wire connects to the terminal between the lock washer and nut. Tighten the nut securely to ensure proper connection. Grounding the generator protects you from electric shock that results from a build-up of static electricity or undetected ground faults.





WARNING!



Generator must be properly grounded to prevent electrocution.

- Only operate generator on a level surface.
- Always connect the nut and ground terminal on the frame to an appropriate ground source.

# 7.2 How to Start Engine (See Fig. 6-9)

- Place generator on a level surface. All electrical loads MUST be disconnected from generator.
- Turn fuel valve to the "ON" position.) (See Fig. 6).
- Slide the choke lever to the "Choke" position (See Fig. 7). SKIP THIS IF THE ENGINE IS WARM OR HOT.
- For **manual start**, turn the engine "ON/OFF" switch to the "ON" position. Pull the recoil handle (starter cord) slowly until resistance is felt, then pull rapidly (See Fig. 8).
- Let engine run for several seconds and then gradually, as engine warms up, slide the choke lever towards the "RUN" position until the choke is fully slid to the "RUN" position (See Fig. 9).



WARNING! Never start or stop engine with electrical devices plugged in to the receptacles. Failure to do so could damage the generator and/or connected electrical devices.

- Always start the engine and let it stabilize before connecting any electronic devices.
- Disconnect all electronic devices before stopping the engine.



WARNING! Pull cord recoils rapidly and pulls arm towards engine faster than you



#### can let go which could result in injury.

• To avoid recoil, pull starter cord slowly until resistance is felt, then pull rapidly.

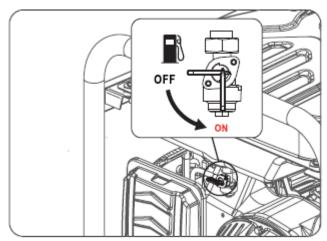


Fig. 6

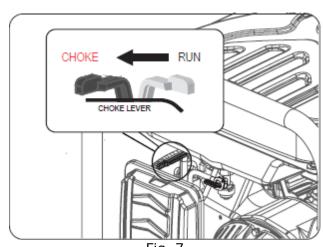


Fig. 7 SKIP THIS IF THE ENGINE IS WARM OR HOT

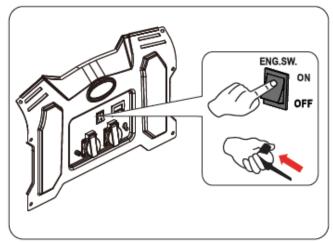


Fig. 8 - Recoil Start

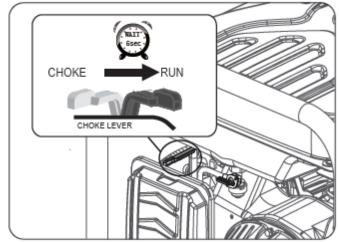


Fig. 9 -

## 7.3 How to stop the engine (See Fig. 10-12)

- All loads MUST be disconnected from the generator. Never start or stop the engine with electrical devices plugged in to the receptacles.
- Turn the fuel valve to the "OFF" position.
- Turn the engine ON/OFF switch to the "OFF" position.

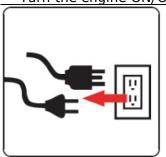


Fig. 10

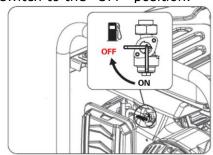


Fig. 11

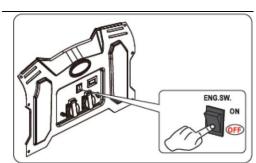


Fig. 12





## 7.4 Receptacles and extension cords

Only use high quality, well-insulated, grounded extension cords in good condition with generator receptacles. Follow each load manufacturer's power rating recommendation when selecting receptacle and extension cord.



CAUTION! Do not connect 3-phase loads to generator.

#### 8 MOVING THE GENERATOR

- Disconnect any electronic devices from generator then turn generator off.
- Turn fuel valve to the "OFF" position.



CAUTION! This product is heavy and requires several people to lift. Lift and lower with your legs by bending at the knees, not your back, to avoid injury.

## 9 DON'T OVERLOAD GENERATOR

Make sure you can supply enough rated watts and surge watts for all electronic devices connected to the generator. Rated watts refer to the power a generator must supply to keep a device running. Surge watts refer to the power a generator must supply to start an electronic device. This power surge for starting a device usually lasts between 2-3 seconds but this additional output must be taken into account when selecting the electronic devices you plan to attach to the generator. To prevent overloading the generator, take the following steps:

- 1. Add up the total rated wattage of all electronic devices that will be connected to the generator simultaneously.
- 2. Estimate surge watts by adding the item(s) with the highest output (it is unnecessary to calculate the surge output for all devices as they should be connected one at a time).
- 3. Add the Surge Watts to the total Rated Watts in step 1. Keep total load within generator's power capacity.

Operating voltage and frequency requirement of all electronic equipment should be checked prior to plugging them into this generator. Damage may result if the equipment is not designed to operate within a +/- 10% voltage variation, and +/- 3 Hz frequency variation from the generator name plate ratings. To reduce the risk of damage, always have an additional load plugged into the generator if solid state equipment (such as television set) is used. A power line conditioner is recommended for some solid state applications.



WARNING! When connecting a load, never exceed generator's power (Watt) / current (Amperage) capacity. This could damage the generator and / or connected electrical devices.

 Check operating voltage and frequency requirements of all electrical devices prior to plugging them into the generator

# 10 VFT METER (VFT = VOLTS - FREQUENCY - TIME )(SEE FIG. 13)

- When the generator is started, the voltage value is shown first.
- Press and release the mode button to toggle between Voltage, Frequency, Total Hour Meter and Run/Maintenance Timer.
- **Voltage (V)** displays the operating voltage of the generator.
- **Frequency (F)** displays the frequency in hertz at which the generator is running.
- The **Run/Maintenance Timer** displays the time in hours and minutes each time the generator is ran. The run timer resets to 00:00 when the generator is shut off. Built into this run timer is a maintenance reminder. When the new generator is ran for 25 hours, the meter will display P25. This is to remind you to change the oil after the initial 25 hours of run time.
- When the **Run/Maintenance Timer** displays P50, it is reminding you to clean the air filter.



 When the Run/Maintenance Timer displays P100, it is reminding you to change/clean the air filter, clean the air filter, and change the oil.

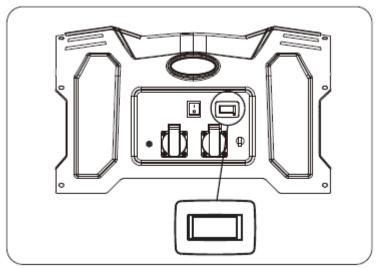


Fig 13

#### 11 POWER MANAGEMENT

- Start engine without anything connected to generator.
- When engine has stabilized, plug in and turn on first load. It is strongly recommended to plug in devices with the largest output first and the smallest output last to help prevent overloading the generator.

Allow generator output to stabilize (engine and attached devices run evenly) before plugging in the next load.

#### 12 COLD WEATHER OPERATION

Under humid conditions where temperatures drop to 40 °F (4 °C) the carburettor and/or crankcase breather system may begin to freeze. To prevent icing take the following steps:

- 1. Replace any old fuel with clean, fresh fuel.
- 2. Use synthetic 5W-30 or SAE 5W-30 engine oil. Check oil daily or after every 8 hours of use.
- 3. Turn fuel valve to the open position.
- 4. Ensure generator is serviced according to the maintenance schedule under "Maintenance" section of manual.
- 5. Shelter unit from elements.

#### 13 CREATING A TEMPORARY COLD WEATHER SHELTER

In an emergency, the original shipping carton can be used as a temporary shelter. The shelter should hold enough heat created by the generator to prevent icing.

- 6. Cut off all flaps.
- 7. Cut off one of the long sides of the carton to expose the units muffler and exhaust. Do not enclose the muffler / exhaust side of the generator.
- 8. Slide carton over generator. If necessary, remove the wheel assembly for fit.
- 9. Maintain 5 feet of clearance between the open side of box and other objects. The exposed side of the box should face away from the wind and elements.
- 10. Remove shelter when temperatures reach 40 °F (4 °C).

Regular maintenance will extend the life of this generator and improve its performance. The warranty does not cover items that result from operator negligence, misuse, or abuse. To receive full value from the warranty, operator must maintain the generator as instructed in this manual, including proper storage.







WARNING! Before inspecting or servicing this machine, make sure the engine is off and no parts are moving. Disconnect the spark plug wire and move it away from the spark plug.

#### 14 PRE-OPERATION STEPS

Before starting the engine, perform the following pre-operation steps:

- Check the level of the engine oil and the fuel tank level.
- Make sure the air filter is clean.
- Remove any debris that has collected on the generator and around the muffler and controls. Use a vacuum cleaner to pick up loose debris. If dirt is caked on, use a soft bristle brush.
- Inspect the work area for hazards.

## **15AFTER EACH USE**

Follow the following procedure after each use:

- Shut off engine.
- Store unit in a clean and dry area.

## **16 MAINTENANCE SCHEDULE**

After first 5 hours	Change oil		
After 8 hours or daily	Clean debris		
	Check engine oil level		
Annually (25 hr use)	Check and clean air cleaner		
	Change engine oil (service more often under dirty or dusty conditions)		
	Check muffler and spark arrester		
Annually (100 hr use)	Service spark plug (replace with NGK BP6ES, Champion N9YC or		
	equivalent)		
	Service fuel valve		
	Inspect muffler and spark arrester		
	Check and clean air cleaner, replace air filter		
	Clean cooling system		

# 17 CHANGING OIL (SEE FIG.14)

- Run the Generator until the Engine is warm.
- Place generator on a level surface.
- Remove the crankcase dipstick.
- Place an oil pan underneath the oil drainage bolt to collect used oil.
- Remove the oil drainage plug and allow oil to drain completely.
- Reinstall oil drainage plug, tighten securely.
- Carefully add SAE 10W-30 to empty reservoir until the oil reaches the
- outer edge of the oil fill hole (Crankcase Dipstick hole).
- Replace crankcase dipstick.

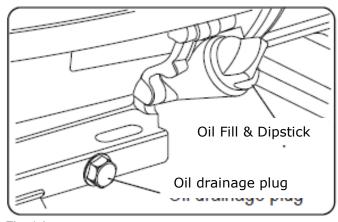
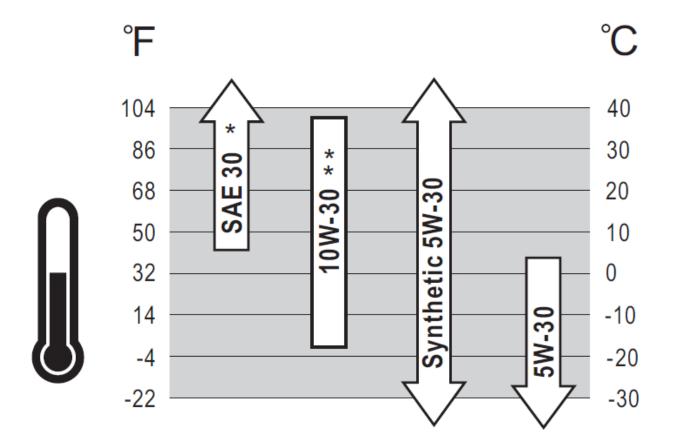


Fig.14



### **180IL RECOMMENDATIONS**

- Do not use special additives.
- Outdoor temperatures determine the proper oil viscosity for the engine. Use the chart to select the best viscosity for the outdoor temperature range expected.



#### Note:

- \* Below 40°F (4°C) the use of SAE 30 will result in hard starting.
- \*\* Above 80°F(27°C) the use of 10W-30 may cause increased oil consumption. Check oil level more frequently.



CAUTION! Used oil should be disposed of at an approved disposal site. See your local oil retailer for more information.



## 19 AIR FILTER (SEE FIG. 15)

- A dirty air filter will reduce the life span of the engine, make it difficult to start the engine, and reduce the unit's performance.
- To clean, remove the air filter cover.
- Carefully pull the air filter out by lifting up along the edges.
- Remove dirt from filter by tapping on it or having it blown out. Replace with new filter annually.

Reinstall air filter so that it seals and replace air filter cover.

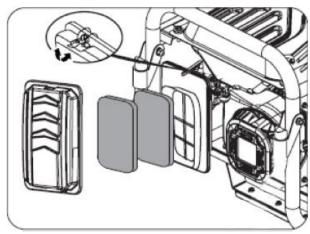


Fig. 15

# **20 CHECKING SPARK PLUG (SEE FIG. 16)**

- Disconnect the spark plug wire from the spark plug.
- Before removing the spark plug, clean the area around its base to prevent debris from entering the engine.
- Clean carbon deposits off the electrode with a wire brush.
- Check the electrode gap and slowly adjust to 0.700 mm - 0.800 mm (.028 - .031") if necessary.
- Reinstall spark plug and tighten to Torque 22.0 - 26.9 Nm (16-20 ft-lb).
- Reconnect spark plug wire.

If spark plug is worn replace only with an equivalent replacement part. Spark plug should be replaced annually. (BOSCH F7RTC, NGK BP6ES, CHAMPION N9YC or Equivalent)

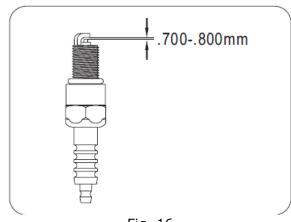


Fig. 16

## **21 SPARK ARRESTOR**

- Inspect the spark arrestor for breaks or holes. Replace if necessary. To purchase a replacement spark arrestor contact your customer service.
- Use a brush to remove carbon deposits from the spark arrestor screen as needed.
- To remove the spark arrestor: While the muffler is cool, loosen the locking clamp and slide the spark arrestor out of the muffler. Reverse this process to install it.

#### 22 COOLING SYSTEM

Cooling system should only be serviced by an authorized dealer.

#### 23 CARBURETTOR ADJUSTMENT

The carburettor is low emission and is equipped with a non-adjustable idle mixture valve. If adjustment is needed contact an authorized dealer.



## 24 REPLACING FUEL FILTER (SEE FIG. 17)

Occasionally the fuel filter may become clogged and need replacing. To purchase a replacement fuel filter contact your supplier (see manual back) or your local small Engine repair shop.

- Turn the fuel valve to the "OFF" position.
- Remove the fuel line from both sides of the filter by squeezing the ends of the retaining clip with pliers.
- Slide the fuel line off.
- Replace with new fuel filter.
- Reinstall fuel lines to new fuel filter.
- Turn the fuel valve to the "ON" position.

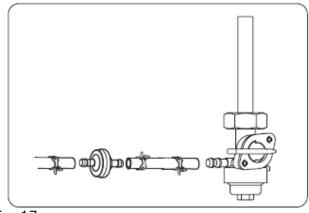


Fig. 17



CAUTION! Fuel tank must be empty before replacing fuel filter. Run unit until tank is empty, if needed, or inspect filter prior to fill-up.

## 25 DRAINING FUEL TANK AND CARBURETTOR

To help prevent gum deposits in the fuel system, drain the fuel from the tank and carburettor before storing the unit for long periods of time. This will help prevent starting problems in the future. If the unit is stored with fuel and the fuel becomes stale or turns gummy or to varnish the warranty does not cover this repair or service.

## 25.1 Draining the fuel tank

- Turn the engine OFF.
- Turn the fuel valve to the OFF position.
- Remove the fuel line that leads to the carburettor from the petcock by squeezing the ends of the hose clamps and sliding the fuel line off.
- If needed, install a fuel hose that will extend to a suitable fuel container large enough to catch the fuel being drained from the tank.
- Turn the fuel valve to the ON position.

When the fuel has drained from the tank, close the fuel valve and reinstall fuel line securely on petcock.

## 25.2 Draining the carburettor

- Turn the engine OFF.
- Turn the fuel valve to the OFF position.
- Position a suitable container under the carburettor drain screw to catch fuel; loosen the screw.
- Allow fuel to drain completely into container.
- Retighten drain screw



CAUTION! Consult your local hazardous waste management in your area for the proper way to dispose of used fuel.



# 26STORAGE AND TRANSPORTATION OF THE GENERATOR (SEE FIG. 18)

- Remove any debris that has collected on the generator and around the muffler and control panel. Use a brush or vacuum to remove loose dirt.
- Inspect air cooling slots. Remove any debris if obstructed.
- For short-term storage, start generator once every 7 days.
- For semi-long term storage, add fuel stabilizer to prevent stale fuel from causing acid and gum deposits in the fuel system and carburettor.
- For long-term storage, drain the fuel.
- Store the generator indoors to prevent freezing.
- The generator must be Shipped, Run and Stored in the upright position as seen in image 18.

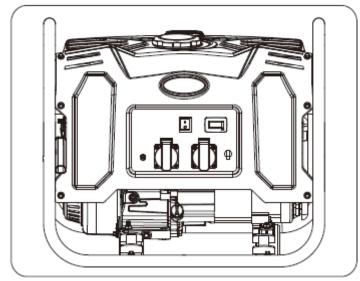


Fig. 18

### **27 ENGINE LONG TERM STORAGE:**

- Remove the spark plug and pour about 1 teaspoon of 10W30 Engine oil into the spark plug hole.
   Reinstall the spark plug. With the ON/OFF switch in the OFF position pull the recoil starter cord several times to coat the cylinder walls with oil.
- Slowly pull the recoil Starter until you feel the engine build compression (When you feel resistance). Leave the Engine in this state as this will prevent any corrosion on the cylinder walls if stored for a long period of time.

#### 28 TECHNICAL DATA

model		FG3050P(E)	FG4050P(E)	FG4650P(E)	
AC Output	Frequency	50Hz	50Hz	50Hz	
Rated power		2000W	2500W	2800W	
Peak power		2500W	3500W	3800W	
	Voltage	110 / 230V AC			
Engine	208cc OHV, 4 Stroke, Air Cooled				
Engine Oil	10W30 - 0.6L				
Fuel Tank	15L Unleaded Gasoline				

#### 29 NOISE

Noise values measured according to relevant standard. (K = 3)

	FG3050P(E)	FG4050P(E) / FG4650P(E)
Acoustic pressure level LpA	74 dB(A)	75 dB(A)
Acoustic power level LwA	95 dB(A)	96 dB(A)



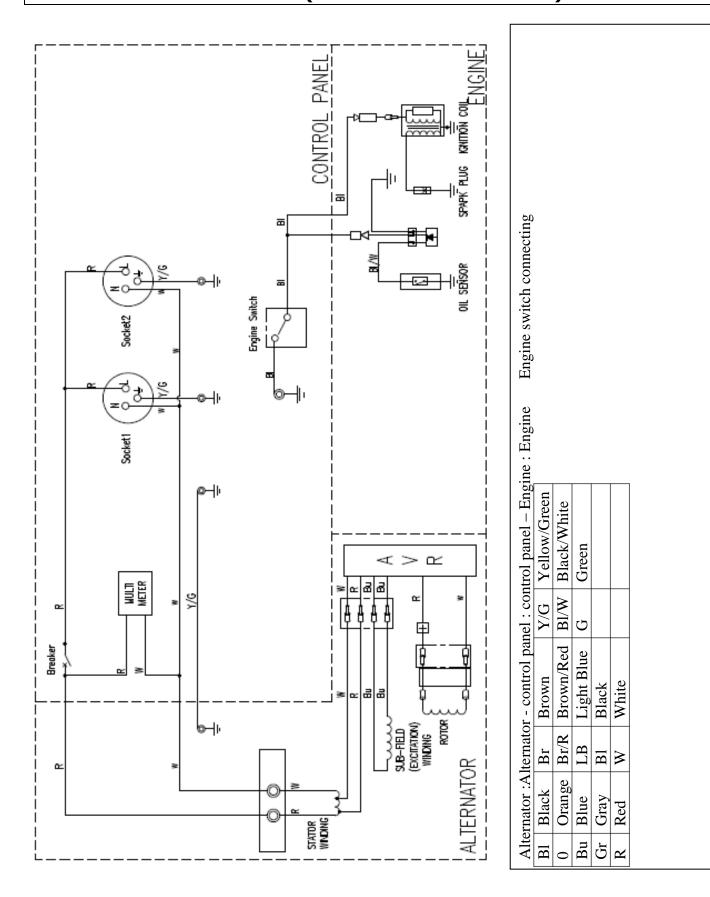
ATTENTION! The sound power level may exceed 75 dB(A), in this case individual hearing protection shall be worn.



30TROUBLESHOOTING					
Problem	Cause	Solution			
Engine is running, but AC	1. Open circuit breaker	1. Reset circuit breaker			
output is not available	2. Poor connection	2. Check and repair			
	3. Defective cord set	3. Check and repair			
	4. Connected device is faulty	4. Connect a device that is working properly			
	5. Fault in generator	5. Contact service department			
Engine runs well without	1. Short circuit in connected device	1. Disconnect device			
load but bogs down when	2. Generator is overloaded	2. See chapter "Don't overload generator"			
loads are connected	3. Clogged fuel filter	3. Clean or replace fuel filter			
	4. Engine speed is too slow	4. Contact service department			
	5. Short circuit in generator	5. Contact service department			
Engine will not start, shuts	1. ON/OFF switch set to "OFF"	1. Turn switch to "ON"			
down during operation, or	2. Dirty Air filter	2. Replace Air filter			
starts and runs rough.	3. Clogged fuel filter	3. Clean or replace fuel filter			
	4. Stale fuel	4. Replace fuel			
	5. Spark plug wire disconnected from spark plug	5. Reconnect spark plug wire			
	6. Bad spark plug	6. Replace spark plug			
	7. Water in fuel	7. Drain fuel tank and replace fuel			
	8. Fuel valve is in "OFF" position	8. Turn fuel valve to "ON" position			
	9. Over choking	9. Turn off choke			
	10. Low oil level	10. Fill crankcase to proper oil level & place			
		generator on a level surface			
	11. Rich fuel mixture	11. Contact service department			
	12. Intake valve stuck open or closed	12. Contact service department			
	13. Loss of engine compression	13. Contact service department			
	14. Engine has flooded	14. Wait 5 minutes and recrank engine			
Engine lacks power	1. Generator is overloaded	1. See chapter "Don't overload generator"			
	Clogged fuel filter	2. Clean or replace fuel filter			
	2. Dirty Air filter	3. Replace Air filter			
	3. Engine needs servicing	4. Contact service department			
Engine "hunts" or falters	1. Choke was removed too soon	1. Move choke to middle position until			
		engine runs evenly			
	2. Clogged fuel filter	2. Clean or replace fuel filter			
	3. Carburetor is running too rich or too lean	3. Contact service department			



# 31 ELECTRICAL DIAGRAM (RECOIL STARTER TYPE)





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How to contact us: (To order parts, receive warranty assistance, or other services inquiries) Please see contact data on the back of this manual.

Record the following information bellow for service or warranty assistance

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Date of Purchase:	
Model Number:	
Series Number:	
UPC Number:	