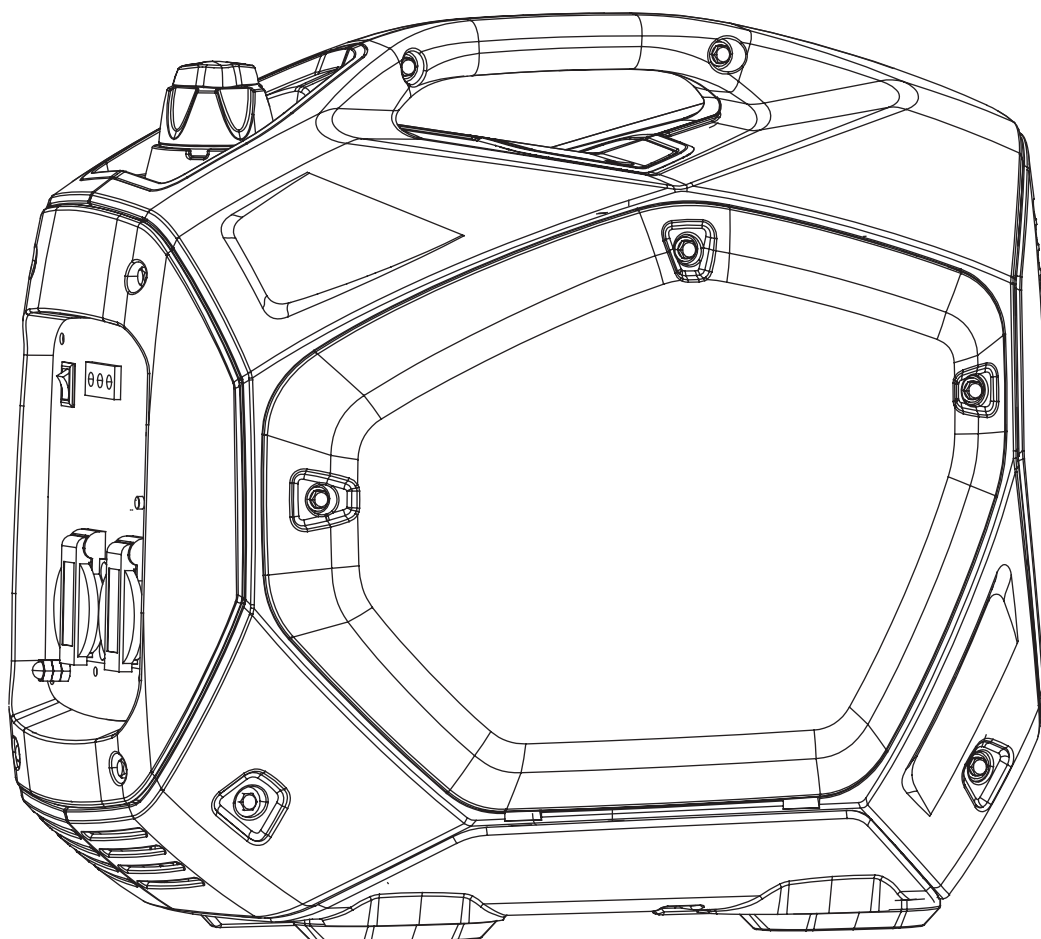




2.2KVA ENCLOSED GENERATOR USER MANUAL

AKGE-2.2KGE_01



V1.3

**PLEASE READ AND UNDERSTAND THIS MANUAL
COMPLETELY BEFORE USING THIS PRODUCT.**

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1. SAFETY INFORMATION

EXHAUST FUMES ARE POISONOUS

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

FUEL IS HIGHLY FLAMMABLE AND POISONOUS

- Always turn off the engine when refueling.
- Never refuel while smoking or in the vicinity of an open flame.
- Take care not to spill any fuel on the engine or muffler when refueling.
- If you swallow any fuel, inhale fuel vapor, or allow any to get in your eyes, see your doctor immediately. If any fuel spills on your skin or clothing, immediately wash with soap and water and change your clothes.
- When operating or transporting the machine, be sure it is kept upright. If it tilts, fuel may leak from the carburetor or fuel tank.

ENGINE AND MUFFLER MAY BE HOT

- Place the machine in a place where pedestrians or children are not likely to touch the machine.
- Avoid placing any flammable materials near the exhaust outlet during operation.
- Keep the machine at least 1 m (3 ft) from buildings or other equipment, or the engine may overheat.
- Avoid operating the engine with a dust cover.
- Be sure to carry the generator only by the carrying handle.

ELECTRIC SHOCK PREVENTION

- Never operate the generator in rain or snow.
- Never touch the machine with wet hands or electrical shock will occur.

CONNECTION NOTES

- Do not connect the generator to any power outlet.
- Do not connect the generator in parallel with any other generator.
- This generator is designed for portable use to supply power to appliances connected to its socket outlets. Any other connection should be in accordance with applicable Australian and New Zealand national safety standards such as the Wiring Rules (AS/NZS 3000) including the sub-standards to that series e.g. AS/NZS 3001, and should be performed by suitably qualified personnel in order to avoid a hazard.

SAFETY SYMBOLS



Caution - The user should be aware of a general hazard.



Dangerous Voltage



Flammable

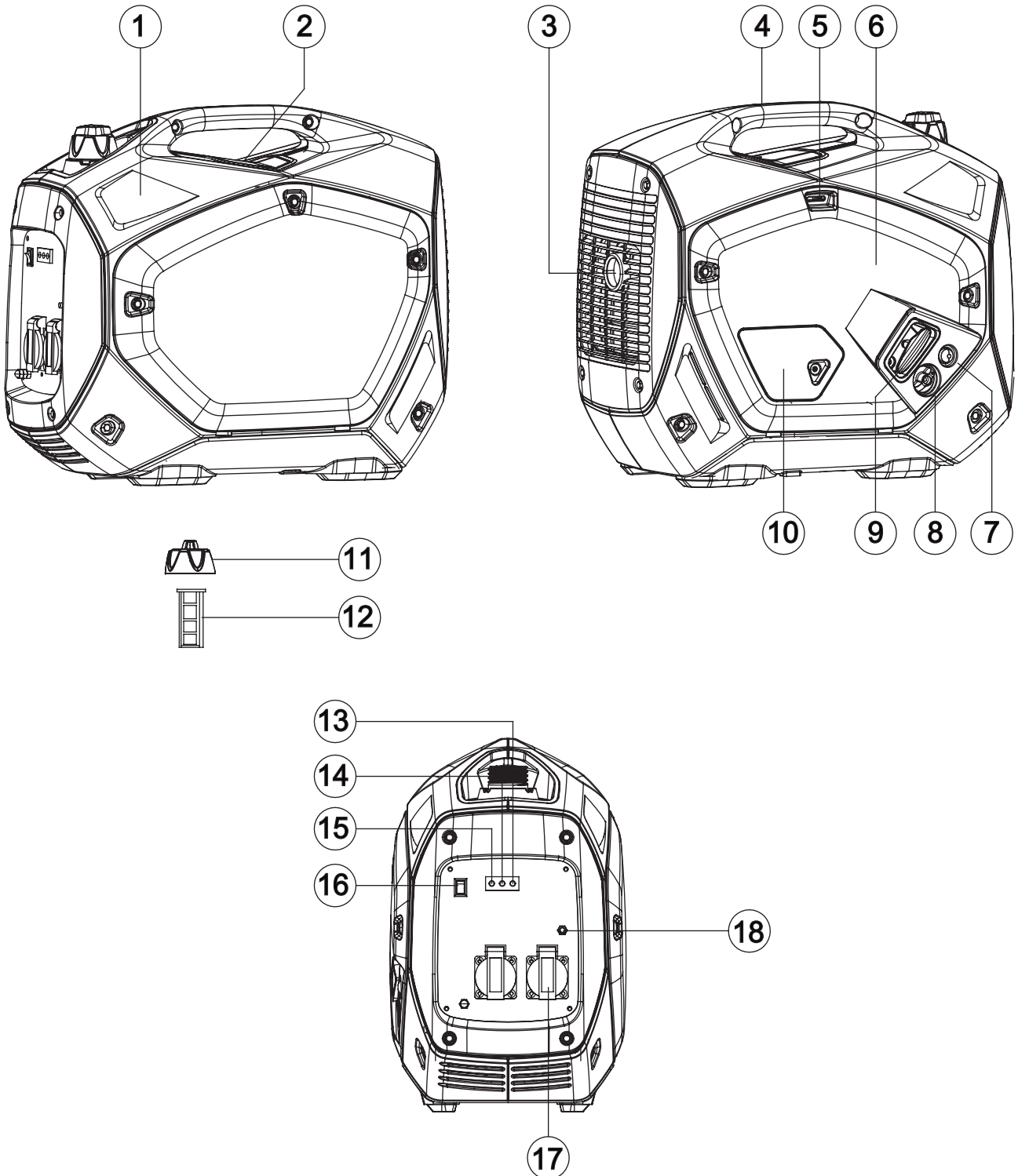


Hot Surface - Do not touch.

2. CONTROL FUNCTIONS

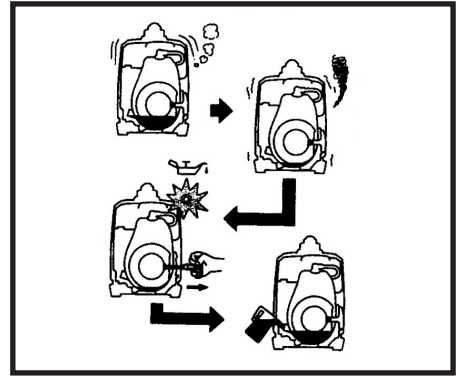
GENERATOR OVERVIEW (FOR RECOIL STARTER TYPE)

- | | | |
|-----------------------------|-------------------------------|------------------------|
| (1) Fuel tank | (2) Spark plug access panel | (3) Muffler |
| (4) Carrying handle | (5) Choke lever | (6) Air filter |
| (7) Fuel pump | (8) Fuel petcock | (9) Recoil starter |
| (10) Oil filler cap | (11) Fuel tank cap | (12) Fuel filter |
| (13) AC pilot light | (14) Overload indicator light | (15) Oil warning light |
| (16) Economy control switch | (17) AC receptacle | (18) Output reset |



OIL WARNING SYSTEM

When the oil level falls below the lower level, the engine stops automatically. Unless you refill with oil, the engine will not start again.



ENGINE AND FUEL COCK SWITCH

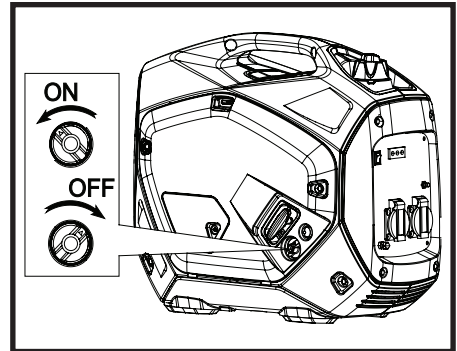
The engine switch controls the ignition system.

① ON (RUN)

Ignition circuit is switched on. The engine can be started.

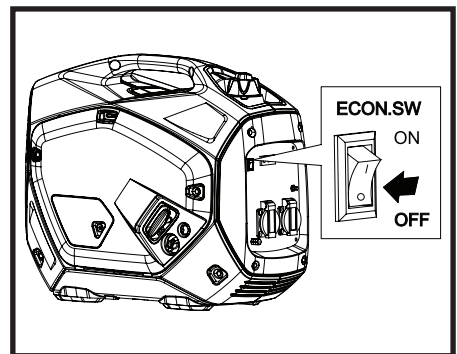
② OFF (STOP)

Ignition circuit is switched off. The engine will not run.



ECONOMY CONTROL SWITCH

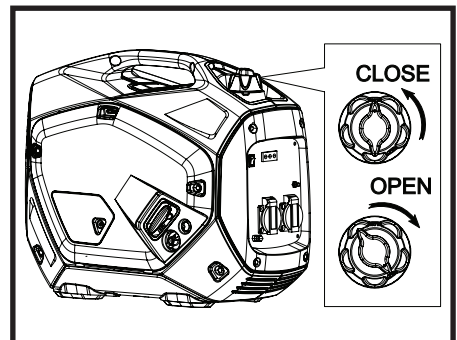
When the economy control switch is turned **ON**, the economy control unit will change the engine speed according to the connected load. The results are improved fuel economy and less noise.



FUEL TANK CAP AIR VENT KNOB

The fuel tank cap is provided with an air vent knob to stop fuel flow. The air vent knob must be turned once clockwise from the closed position. This will allow fuel to flow to the carburetor and the engine to run.

When the engine is not in use, tighten the air vent knob counterclockwise until it is finger-tight to stop fuel flow.

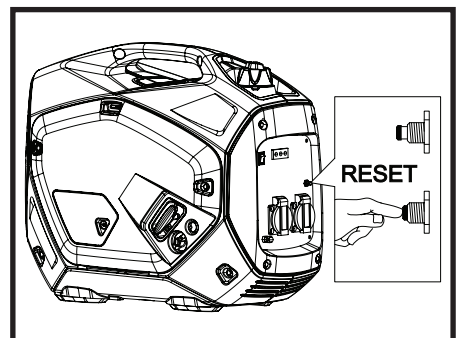


OUTPUT RESET

Push the reset button continuously for 2 seconds, this will reset the AC output if the generator has stopped due to the overload protection.

NOTE

If the overload protection has been tripped ensure the total load does not exceed the rated power output.



3. PRE-OPERATION CHECK

- Pre-operation checks should be made each time the generator is used.

CHECK ENGINE FUEL

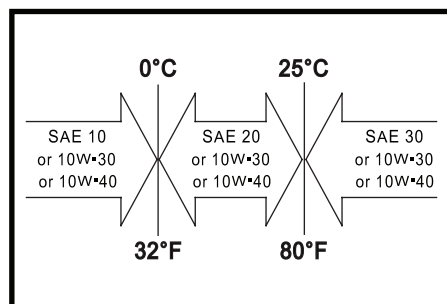
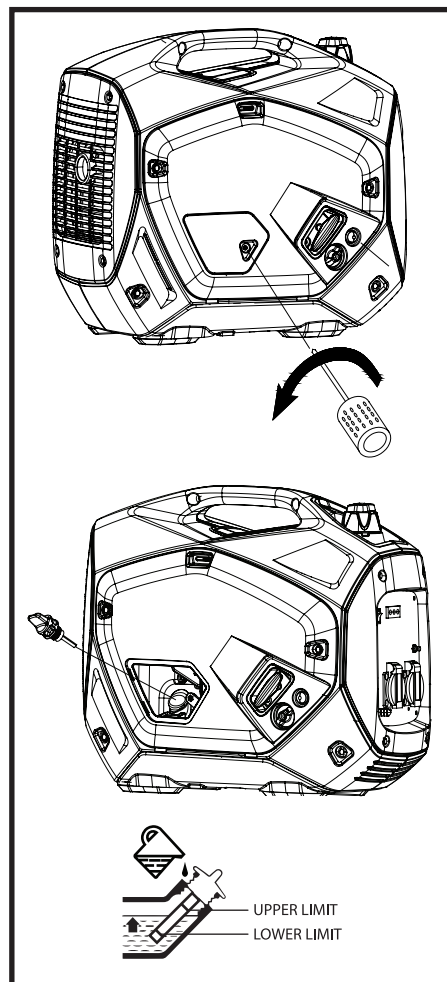
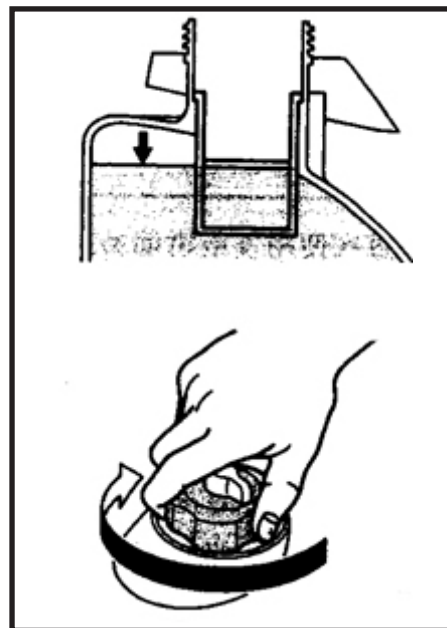
- Make sure there is sufficient fuel in the tank.
- If fuel is low, refill with unleaded automotive gasoline.
- Be sure to use the fuel filter screen on the fuel filter neck.
- Recommended fuel: Unleaded gasoline.
- Fuel tank capacity: *(see page 17)*

WARNING

- Do not refill tank while engine is running or hot.
- Close fuel cock before refueling with fuel.
- Be careful not to allow dust, dirt, water or other foreign objects to enter fuel.
- Do not fill above the top of the fuel filter or it may overflow when the fuel heats up later and expands.
- Wipe off spilt fuel thoroughly before starting engine.
- Keep open flames, sparks, and other ignition sources away.

CHECK ENGINE OIL

- Make sure the engine oil is at the upper level of the oil filler hole. Add oil as necessary.
- Remove oil filler cap and check the engine oil level.
- If oil level is below the lower level line, refill with suitable oil to upper level line. Do not screw in the oil filler cap when checking oil level.
- Change oil if contaminated.
- Oil capacity: *(see page 17)*
- Recommended engine oil:
API Service "SJ"



4. OPERATION

NOTE


- The generator has been shipped without engine oil. Fill with oil or it will not start.
- Do not tilt the generator when adding engine oil. This could result in overfilling and damage the engine.

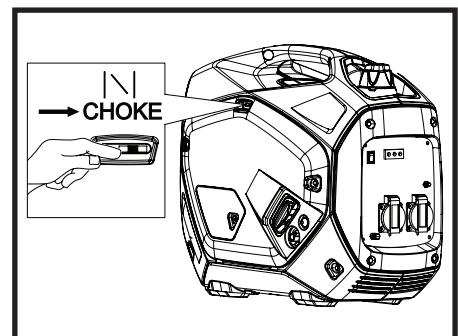
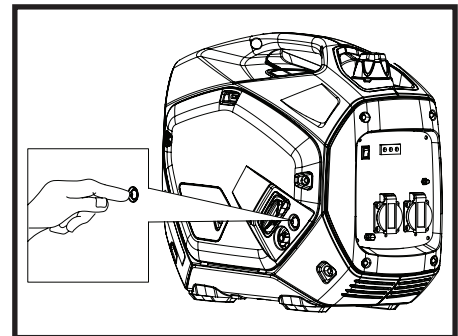
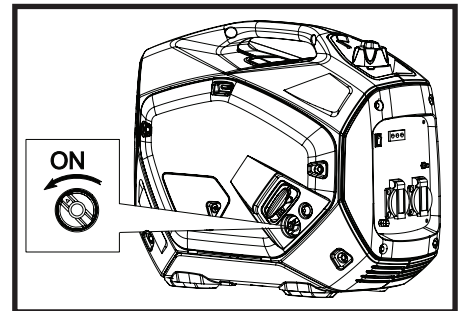
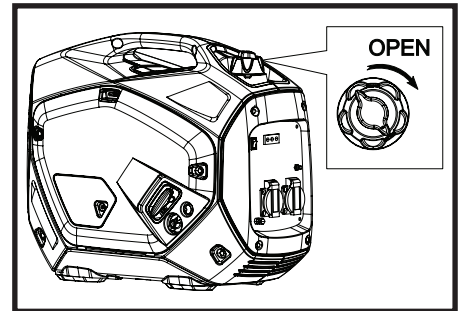
STARTING THE ENGINE


NOTE

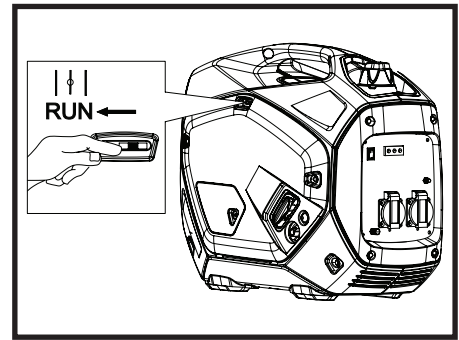
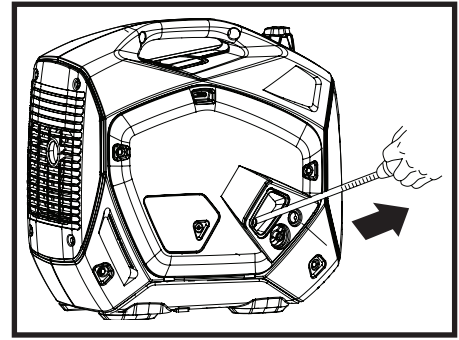
- Before starting the engine, ensure there are no appliances connected to the generator until the engine has come to an idle.

PULL START

1. Open the fuel tank air vent to the **OPEN** position.
2. Turn the fuel petcock lever to the **ON** position.
3. When starting the generator for the first time, **press the primer bulb 6 times** after filling with Petrol.
4. Turn the choke lever to the |  | **CHOKE** position. Not necessary if the engine is warm.



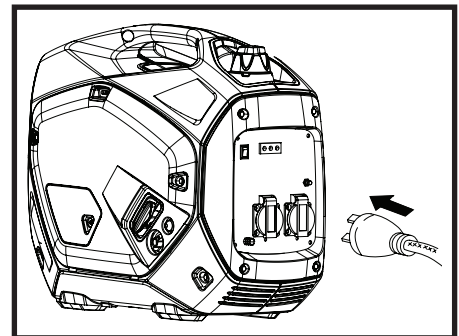
5. Pull the starter handle slowly until resistance is felt. This is the “Compression” point. Return the handle to its original position and pull swiftly. Do not fully pull out the rope. After starting, allow the starter handle to return to its original position while still holding the handle. Grasp the carrying handle firmly to prevent the generator from falling over when pulling the recoil starter.
6. Warm up the engine.
7. Turn the choke lever back to the |  | **RUN** position.
8. Warm up the engine without a load for a few minutes.



USING ELECTRIC POWER

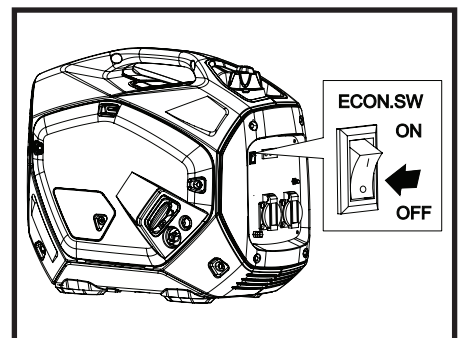
1. AC APPLICATION

- a. Check the AC pilot lamp for proper voltage.
- b. Turn off the switch(es) of the electrical appliance(s) before connecting to the generator.
- c. Insert the plug(s) of the electrical appliance(s) into the receptacle.



CAUTION

- Be sure the electric apparatus is turned off before plugging in.
- Be sure the total load is within generator rated output.
- Be sure the socket load current is within socket rated current.
- The economy control switch must be turned to **OFF** when using electric devices that require a large starting current, such as a compressor or a submersible pump

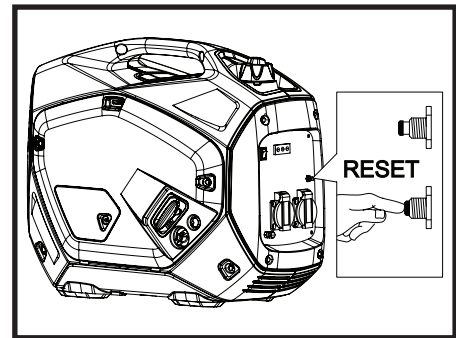
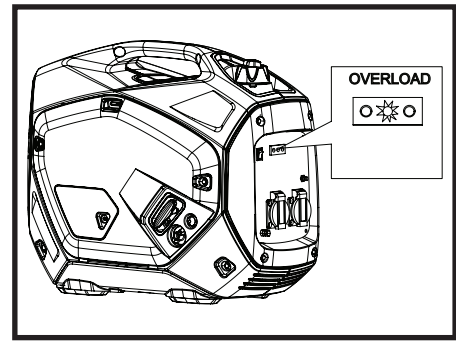


2. OVERLOAD INDICATOR LIGHT

The overload indicator light will blink when an overload of a connected electrical device is detected. Decrease the load to below the rated output and the overload indicator light will go off.

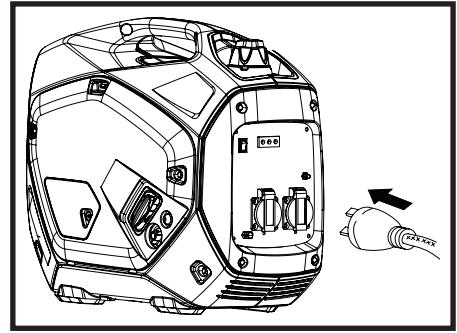
When an overload is detected, the inverter unit overheats, or the AC output voltage decreases, the overload indicator light will come on and the electronic breaker will then activate, stopping power to the generator in order to protect the generator and any connected electrical devices. The output pilot light (Green) will be off, the overload indicator light will turn RED, & the engine will stop. If a overload occurs the following steps will need to be done:

- a. Turn off any connected electrical devices
- b. Reduce the total wattage of connected devices
- c. Check for blockages in the cooling air inlet, muffler air exhaust pipe opening and the control unit before restarting engine.

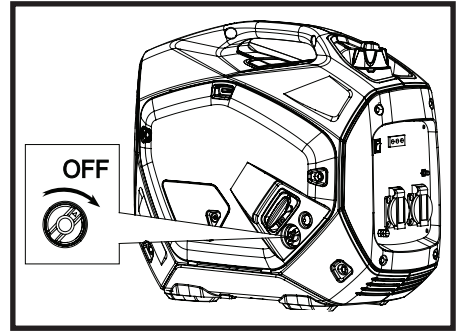


STOPPING THE ENGINE

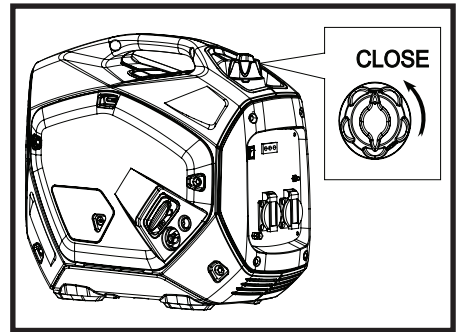
1. Turn off the power switch of the electric apparatus or disconnect any electric devices.



2. Turn the fuel petcock lever to **OFF**.



3. Turn the fuel tank cap air vent knob counterclockwise to the **CLOSED** position.



5. PERIODIC MAINTENANCE

MAINTENANCE CHART

ITEM	REMARKS	PRE-OPERATION CHECK (DAILY)	INITIAL 1 MONTHS OR 20 HR	EVERY 3 MONTHS OR 50HR	EVERY 6 MONTHS OR 100HR	EVERY 12 MONTHS OR 300HR
Spark Plug	Check condition adjust gap and clean. Replace if necessary.			●		
Engine Oil	Check oil level	●				
	Replace		●		●	
Air Filter	Clean. Replace if necessary.			●		
Fuel Filter	Clean fuel filter. Replace if necessary				●	
Choke	Check choke operation					
Valve Clearance	Check and adjust when engine is cold.					●
Fuel Line	Check fuel hose for crack or damage. Replace if necessary.	●				
Exhaust System	Check for leakage. Retighten or replace gasket if necessary	●				
	Check muffler screen. Clean / replace if necessary.					●
Carburetor	Check choke operation	●				
Cooling System	Check fan damage.					●
Starting System	Check recoil starter operation.	●				
Idle speed	Check and adjust engine idle speed					●
Fittings/ Fasteners	Check all fittings and fasteners correct if necessary.				●	
Crankcase Breather	Check breather hose for cracks or damage. Replace if necessary					●
Generator	Check the pilot light comes on	●				

Regular maintenance is most important for the best performance and safe operation.

ENGINE OIL REPLACEMENT

1. Place the generator on a level surface and warm up the engine for several minutes. Stop the engine and turn the fuel petcock knob to the OFF position. Turn the fuel tank cap air vent knob counterclockwise to the CLOSED position.
 2. Loosen the screw and remove the cover.
 3. Remove the oil filler cap.
 4. Place an oil pan under the engine. Tilt the generator to drain the oil completely.
 5. Return the generator to a level surface.
 6. Add engine oil until it reaches the upper level.
 7. Install the oil filler cap.
 8. Install the cover and tighten the screw
- Recommended engine oil: **(see page 17)**
API Service “SJ”

CAUTION

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

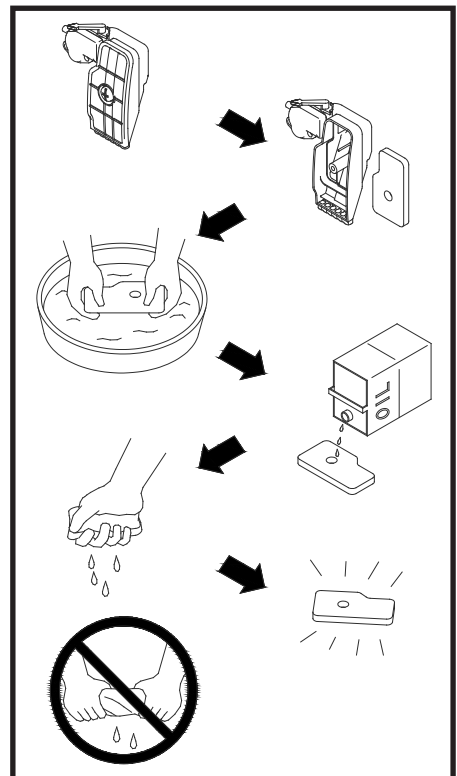
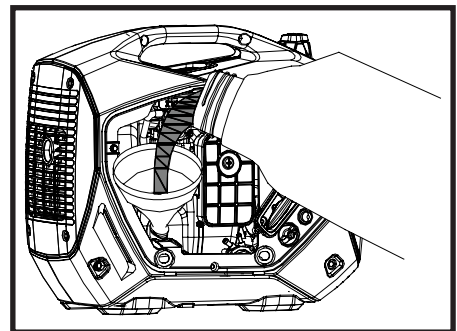
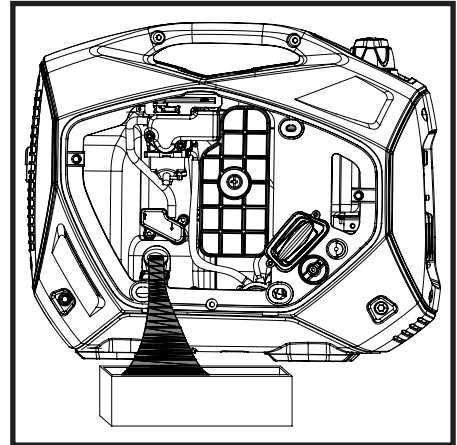
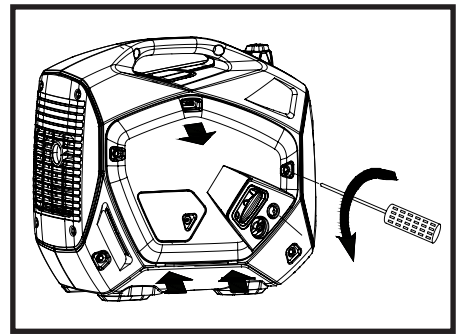
AIR FILTER

Maintaining an air filter is very important. Dirt and debris entering through improperly installed, improperly serviced, or inadequate filters can damage and wear out engines prematurely. Always keep the filter clean.

1. Remove the cover.
2. Remove the air filter.
3. Wash the filter in a solvent and dry.
4. Oil the filter and squeeze out excess oil. The filter should be wet but not dripping.
5. Insert the filter into the cover.
6. Install the cover.

CAUTION

- The engine should never run without the filter; excessive piston and/or cylinder wear may result.



CLEANING AND ADJUSTING THE SPARK PLUG

1. Remove the cover.
2. Check for discoloration and remove any carbon buildup.
3. Check the spark plug type and gap.
4. Install the spark plug.
5. Install the cover.

CAUTION

- **Standard electrode color:** Tan Color.
- **Standard Spark Plug:** A5RTC (TORCH)
- **Spark Plug Gap:** 0.6-0.7 mm (0.024-0.028 in)

FUEL TANK FILTER

1. Remove the fuel tank cap and filter.
2. Clean the filter with solvent. If damaged, replace.
3. Wipe the filter and insert it.

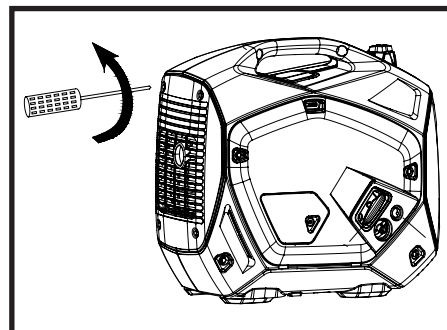
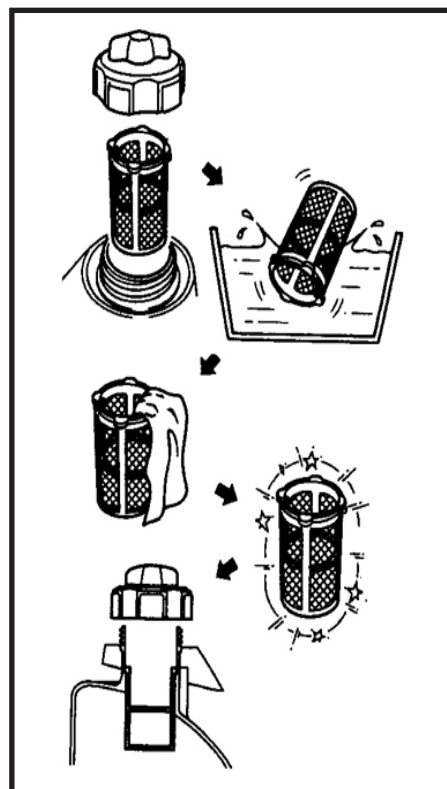
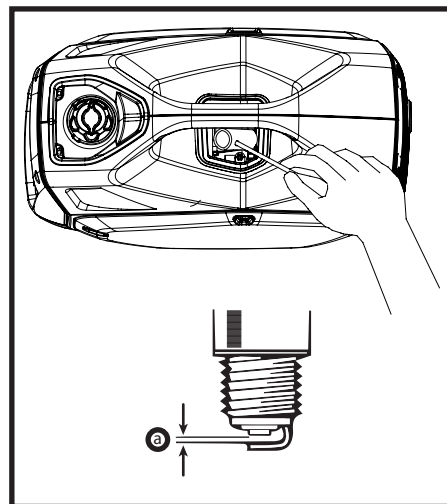
WARNING

- Be sure the tank cap is securely tightened.

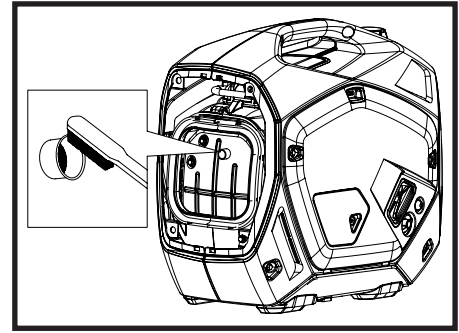
MUFFLER SCREEN

WARNING

- The engine and muffler will be very hot after the engine has been run.
- Avoid touching the engine and muffler while they are still hot with any part of your body or clothing during inspection or repair.



1. Remove the cover.
2. Remove the muffler screen.
3. Use a flathead screwdriver to pry the spark arrester out from the muffler.
4. Remove the carbon deposits on the muffler screen and spark arrester using a wire brush.
5. Install the muffler screen.
6. Install the cover.



6. TROUBLESHOOTING

ENGINE WON'T START

1. Fuel systems

No fuel supplied to combustion chamber.

- | | |
|-----------------------|--|
| • No fuel in tank: | Supply fuel. |
| • Fuel in tank: | Fuel tank cap air vent knob to OPEN , fuel cock knob to ON . |
| • Clogged fuel line: | Clean fuel line. |
| • Clogged carburetor: | Clean carburetor. |

2. Engine oil system

Oil level Insufficient

- | | |
|---------------------|-----------------|
| • Oil level is low: | Add engine oil. |
|---------------------|-----------------|

3. Electrical systems

Poor spark

- | | |
|--|---------------------------------------|
| • Spark plug dirty with carbon or wet: | Remove carbon or wipe spark plug dry. |
| • Faulty ignition system: | Consult dealer. |

4. Compression insufficient

- | | |
|---------------------------------|-----------------|
| • Worn out piston and cylinder: | Consult dealer. |
|---------------------------------|-----------------|

GENERATOR WON'T PRODUCE POWER

Safety device (AC) to "OFF":	Stop the engine, then restart.
------------------------------	--------------------------------

7. STORAGE

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

DRAIN THE FUEL

1. Remove the fuel tank cap, drain the fuel from the fuel tank
2. Remove the cover, drain fuel from the carburetor by loosening the drain screw.

ENGINE

1. Remove the spark plug, pour in about one tablespoon of SAE 10W30 or 20W40 motor oil into the spark plug hole and reinstall the spark plug.
2. Use the recoil starter to turn the engine over several times (with ignition off).
3. Pull the recoil starter until you feel compression.
4. Stop pulling.
5. Clean exterior of the generator and apply a rust inhibitor.
6. Store the generator in a dry, well-ventilated place, with the cover placed over it.
7. The generator must remain in a vertical position.

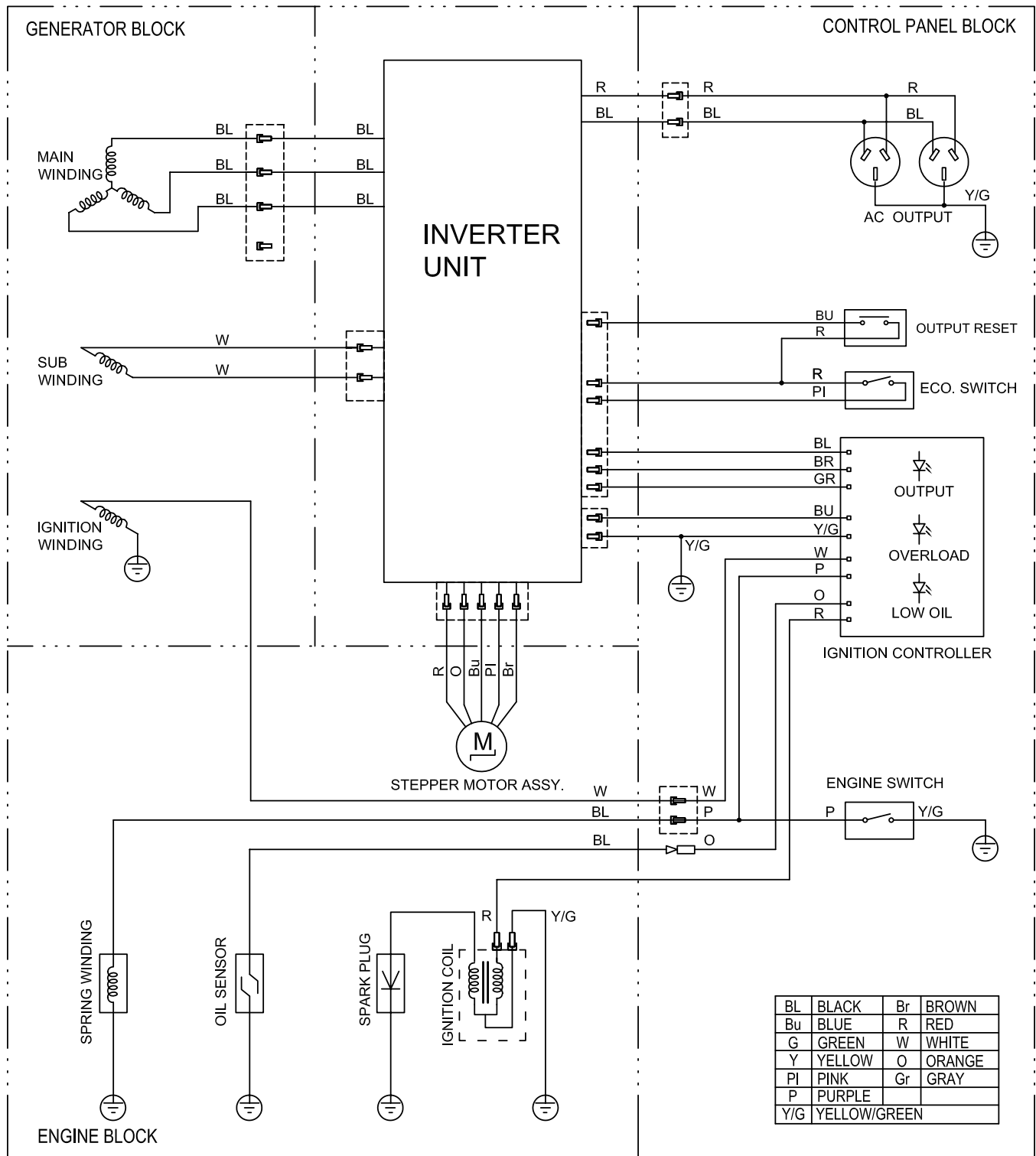
8. SPECIFICATIONS

MODEL		2200I
GENERATOR	Type	Inverter Generator
	AC Voltage	240V
	Frequency	50Hz
	Max. Output	2.2 kW
	Rated Output	2.0 kW
	Power Factor	1.0
ENGINE	Model	XY156F
	Type	Air-cooled, 4 cycle, OHV, Gasoline Engine
	Bore×Stroke mm×mm	56×46
	Displacement	114 cc
	Max. Output	2.5KW / 4500rpm
	Fuel	Regular Automobile Gasoline
	Fuel tank Capacity	4.1 liters
	Rated Continuous Operation	3.5 (100% Load)
	Lubricating oil	SAE 10W30
	Lubricating oil Capacity	0.52 liter
	Starting System	Recoil Starter
	Ignition system	C.D.I.
	Spark Plug: Type	A5RTC (TORCH)
DIMENSION	Net dimension L×W×H	525×282×440 mm
	Overall dimension L×W×H	555×320×465 mm
	Net Weight	19.0 Kg
	Gross Weight	21.5 Kg

Specifications subject to change without prior notice.

9. WIRING DIAGRAM

2200I (240V)



24 MONTH LIMITED WARRANTY

WARRANTY PERIOD:

Full 24 month warranty from date of purchase against all manufacturing defects.

WHAT DOES THE WARRANTY COVER?

Under normal usage conditions, this warranty covers:

- a. Any defect in design or manufacture which results in the product failing to perform substantially as described in authorised advertising or literature.
- b. We will either repair or replace the product at our discretion providing that the fault is found to have been caused by a design or manufacturing defect and not misuse or tampering.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The benefits provided to you as the consumer by this warranty are in addition to other rights and remedies available to you under the law.

THE WARRANTY DOES NOT COVER:

- a. Any damage resulting from improper use
 - b. Faulty installation or modification made during installation
 - c. The cost of removing and reinstalling the product
 - d. Travel and /or other expenses due to customer's remote location
 - e. Transport charges and damage in transit. It is your responsibility to deliver and pick up your product, including any costs associated with the postage of your repair or replacement product. If you do freight your product we recommend that you insure against loss or damage.
 - f. Any loss directly or indirectly associated with the product failing to operate.
 - g. Damage caused by mould, insects, animals, misuse, incorrect operation, adverse weather, accidents and fair wear and tear
-

TO MAKE A CLAIM, PLEASE ENSURE YOU RETAIN YOUR SALES RECEIPT OF PURCHASE

1800 88 39 64



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