

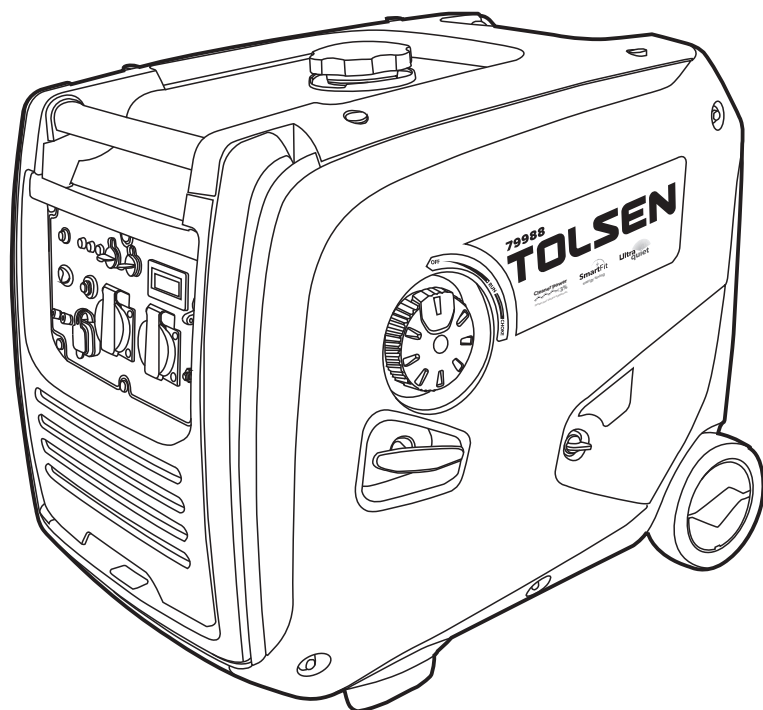
TOLSEN FORCE XPRESS

79988

QUIET INVERTER GENERATOR

INSTRUCTION MANUAL

4000W



SAVE THIS MANUAL !

You will need this manual for safety instructions, operating procedures and warranty.
Put it and the original sales receipt in a safe dry place for future reference.







SPECIFICATIONS

Item No.:79988(CE)


Generator	Output	230 VAC, 50 Hz, 4000W, 1 Phase; 12 VDC 8.3 A; 3500 Running Watts; 4000 Maximum Starting Watts
	Receptacles	2x VDE PLUG (Earthing); 1 x 12 V DC Connection terminal 2XUSB Point port(5v 1A/2.1A)
Displacement		225cc
Engine Type		Horizontal Single Cylinder 4-stroke, OHV
Cooling System		Forced air cooled
Fuel	Type	87+ octane, stabilizer-treated unleaded gasoline
	Capacity	12.5L
Engine Oil	Type SAE	10W-30
	Capacity	600ml
Run Time @ 50% Load with full tank		8h
Bore x Stroke		58mm x 70mm

The engine's emission control system complies with Eu 5 emissions.

Symbol Definitions

Symbol	property or Statement
RPM	Revolutions Per Minute
Hp	Horsepower
	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields.
	Read the manual before set -up and/or use.
	WARNING marking concerning Risk of Hearing Loss. Wear hearing protection.
	WARNING marking concerning Risk of Respiratory Injury. Operate engine OUTSIDE and far away from windows, doors, and vents.
	WARNING marking concerning Risk of Fire while handling fuel. Do not smoke while handling fuel.
	WARNING marking concerning Risk of Fire. Do not refuel while operating. Keep flammable objects away from engine.

Important safety instructions

 Warning! Read all instructions. Failure to follow all instructions listed below may result in fire, serious injury and/or DEATH. The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INFORMATION

Setup precautions

1. Gasoline fuel and fumes are flammable, and potentially explosive. Use proper fuel storage and handling procedures. Do not store fuel or other flammable materials nearby.
2. Have multiple ABC class fire extinguishers nearby.
3. Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.
4. Set up and use only on a flat, level, well-ventilated surface.
5. All connections and conduits from the Generator to the load must only be installed by trained and licensed electricians.
6. Connections for standby power to a building electrical system must be made by a qualified electrician. The connection must isolate the Generator power from utility power, and must comply with all applicable laws and electrical codes.
7. Wear ANSI-approved safety goggles, heavy-duty work gloves, and dust mask/respirator during set up.
8. Use only lubricants and fuel recommended in the Specifications chart of this manual.
9. Improper connections to a building electrical system can allow electrical current from the Generator to backfeed into the utility lines. Such backfeed 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 and a qualified electrician if intending to use the Generator for back up power.
10. Do not operate the Generator before grounding. The Generator must be earth-grounded in accordance with all relevant electrical codes and standards before operation.

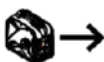
Operating precautions



1. **CARBON MONOXIDE HAZARD** using a generator indoors **CAN KILL** you in MINUTES. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.



NEVER use inside a home or garage, EVEN IF doors and windows are open.



Only use OUTSIDE and far away from windows, doors, and vents.

2. Never use a generator indoors, including in garages, basements, crawl spaces and sheds. Opening doors and windows or using fans will NOT prevent carbon monoxide build up in the home.
3. When using generators, keep them outdoors and far away from open doors, windows, and vents to avoid toxic levels of carbon monoxide from building up indoors.
4. If you start to feel sick, dizzy, or weak while using a generator, get to fresh air right away. The carbon monoxide from generators can quickly lead to full incapacitation and death.
5. Keep children away from the equipment, especially while it is operating.
6. Keep all spectators at least six feet from the engine during operation.
7. Fire Hazard! Do not fill gas tank while engine is running. Do not operate if gasoline has been spilled. Clean spilled gasoline before starting engine. Do not operate near pilot light or open flame.
8. Do not touch engine during use. Let engine cool down after use.
9. Never store fuel or other flammable materials near the engine.
10. If the plugged in product operates abnormally or unusually slow, immediately stop using the generator as a power source. Read and adhere to the instruction manual of the product to be powered to make sure that it can be safely and efficiently powered by a portable generator.
11. 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.
12. Do not exceed the running wattage of the generator. Make sure that the total electrical rating of the all of the tools or appliances plugged into the generator at the same time does not exceed that of the generator. Check that the startup surge will not be beyond the limit of the generator.
13. Avoid substantially overloading which will trip the circuit breaker. Slightly overloading the generator may not trip the circuit breaker, but will lead to premature generator failure.
14. Do not attempt to connect or disconnect load connections while standing in water, or on wet or soggy ground.
15. Do not touch electrically energized parts of the generator and interconnecting cables or conductors with any part of the body, or with any non-insulated conductive object.
16. Connect the generator only to a load that is compatible with the electrical characteristics and running wattage of the generator.
17. Insulate all connections and disconnected wires.
18. Guard against electric shock. Prevent body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators.
19. Only use a suitable means of transport and lifting devices with sufficient weight bearing capacity when transporting the generator.
20. Secure the generator on transport vehicles to prevent it from rolling, slipping, and tilting.
21. Industrial applications must follow OSHA requirements.
22. Do not leave the generator unattended when it is running. Turn off the generator (and remove safety keys, if available) before leaving the work area.
23. The generator can produce high noise levels. Prolonged exposure to noise levels above 85 dBA is hazardous to hearing. Wear ear protection when operating the generator or when working nearby while it is operating.

24. Keep access doors on enclosures locked.
25. Wear safety glasses and hearing protection during use.
26. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to a heart pacemaker could cause pacemaker interference or pacemaker failure. Caution is necessary when near the engine's magneto or recoil starter.
27. Use only accessories that are recommended by Harbor Freight Tools for your model. Accessories that may be suitable for one piece of equipment may become hazardous when used on another piece of equipment.
28. Do not operate in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Gasoline-powered engines may ignite the dust or fumes.
29. Stay alert, watch what you are doing and use common sense when operating this generator. Do not use while tired or under the influence of drugs, alcohol or medication.
30. Dress properly. Do not wear loose clothing or jewelry. Keep hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
31. Parts, especially exhaust system components, get very hot during use. Stay clear of hot parts.
32. Do not cover the generator during operation.
33. Keep the generator and surrounding area clean at all times.
34. Do not smoke, or allow sparks, flames, or other sources of ignition around the equipment, especially when refuelling.
35. Use the equipment, accessories, etc., in accordance with these instructions and in the manner intended for the particular type of equipment, taking into account the working conditions and the work to be performed. Use of the equipment for operations different from those intended could result in a hazardous situation.
36. Do not operate the equipment with known leaks in the engine's fuel system.
37. When spills of fuel or oil occur, they must be cleaned up immediately. Dispose of fluids and cleaning materials as per any local, state, or federal codes and regulations. Store oil rags in a bottom-ventilated, covered, metal container.
38. Keep hands and feet away from moving parts. Do not reach over or across equipment while operating.
39. Before use, check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the equipment's operation. If damaged, have the equipment serviced before using. Many accidents are caused by poorly maintained equipment.
40. Use the correct equipment for the application. Do not modify the equipment and do not use the equipment for a purpose for which it is not intended.

Parallel Kit precautions

⚠WARNING

TO PREVENT SERIOUS INJURY, DEATH, AND GENERATOR AND/OR EQUIPMENT DAMAGE FROM ELECTRIC SHOCK AND FIRE:

1. Follow parallel Kit instructions provided with Kit for connection and use of a parallel Kit.
2. Connect only an approved Predator Parallel Kit (sold separately) to the Parallel Kit Terminals.
3. Only connect two identical Inverter Generators together using a Parallel Kit.
4. Connect Parallel Kit only to terminals marked "Parallel Outlets" on the front of the Generator.
5. Do not remove or connect a Parallel Kit while the Generator is running.
6. Do not use a Parallel Kit that is attached to only one Generator.
7. Do not use any other outlet on a Generator that has a Parallel Kit attached.

Service precautions

1. Before service, maintenance, or cleaning:
 - a. unplug all devices from the generator.
 - b. Turn the Combination Switch to its "OFF" position.
 - c. allow the engine to completely cool.
 - d. Then, remove the spark plug cap from the spark plug.
2. Keep all safety guards in place and in proper working order. Safety guards include muffler, air cleaner, mechanical guards, and heat shields, among other guards.
3. Keep all electrical equipment clean and dry. Replace any wiring where the insulation is cracked, cut, abraded, or otherwise degraded. Replace terminals that are worn, discolored, or corroded. Keep terminals clean and tight.
4. Do not alter or adjust any part of the equipment or its engine that is sealed by the manufacturer or distributor. Only a qualified service technician may adjust parts that may increase or decrease governed engine speed.
5. Wear ANSI-approved safety goggles, heavy-duty work gloves, and dust mask/respirator during service.
6. Have the equipment serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the equipment is maintained. Do not attempt any service or maintenance procedures not explained in this manual or any procedures that you are uncertain about your ability to perform safely or correctly.
7. Store equipment out of the reach of children.
8. Follow scheduled engine and equipment maintenance.

Refueling:

1. Do not refill the fuel tank while the engine is running or hot.
2. Do not smoke, or allow sparks, flames, or other sources of ignition around the equipment, especially when refuelling.
3. Do not fill fuel tank to the top. Leave a little room for the fuel to expand as needed.
4. Refuel in a well-ventilated area only.
5. Wipe up any spilled fuel and allow excess to evaporate before starting engine. To prevent FIRE, do not start the engine while the smell of fuel hangs in the air.

Set up



READ THE ENTIRE IMPORTANT SAFETY INFORMATION

Section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

⚠ WARNING

TO PREVENT SERIOUS INJURY AND FIRE: Operate only with proper spark arrestor installed.



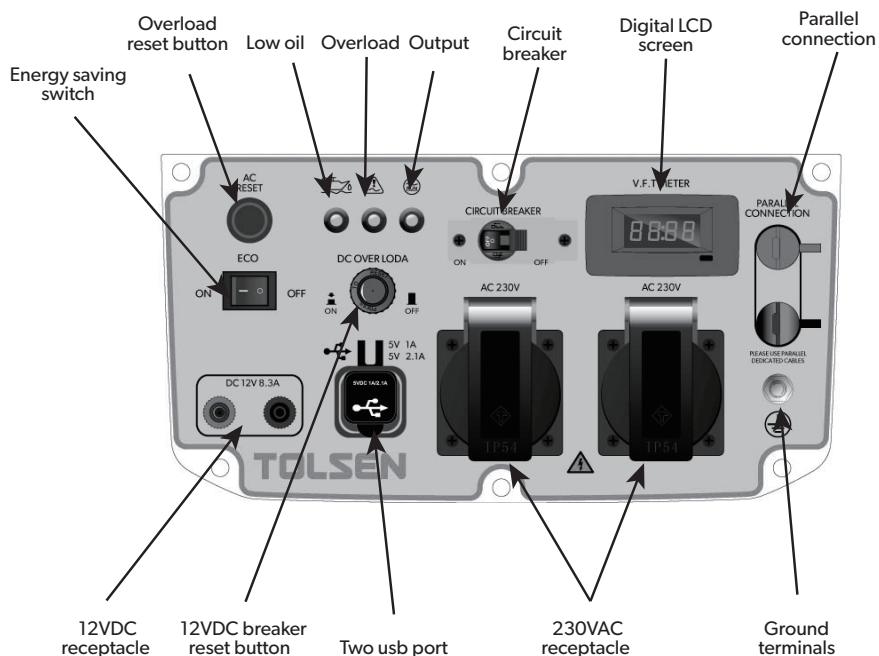
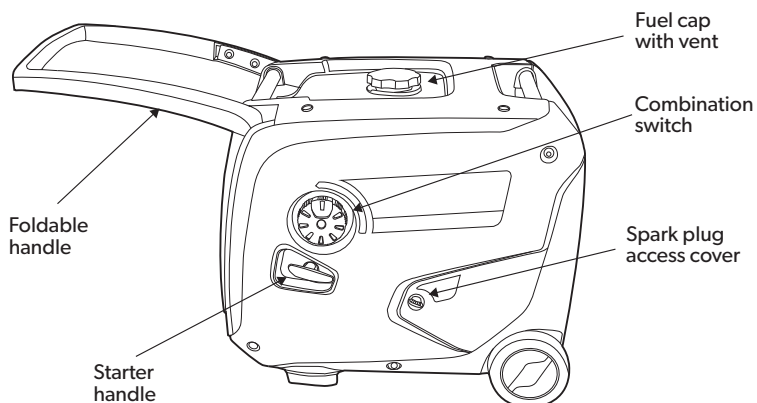
Operation of this equipment may create sparks that can start fires around dry vegetation. a spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

At high altitudes, the engine's carburetor, governor, and any other parts that control the fuel-air ratio will need to be adjusted by a qualified mechanic to allow efficient high-altitude use and to prevent damage to the engine and any other devices used with this product.

Grounding

1. The Generator must be properly grounded in accordance with all relevant electrical codes and standards before operation. Have the unit grounded by a qualified electrician if you are not qualified to do so.
2. To ground the Generator, connect a #6 AWG grounding wire (not included) from the Grounding Terminal on the Control Panel to a grounding rod (not included). The grounding rod must be an earth-driven copper or brass rod (electrode) which can adequately ground the Generator.
3. Refer to local regulations for ground source information.

COMPONENTS AND CONTROLS



OPERATION

! READ the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

PRE-Start Checks

Inspect Engine and Generator looking for damaged, loose, and missing parts before set up and starting. If any problems are found, do not use equipment until fixed properly.

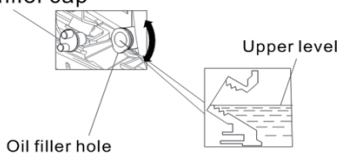
Checking and Filling Engine Oil

NOTICE: your Warranty is VOID if the Engine's crankcase is not properly filled with oil before each use. Before each use, check the oil level. Engine will not start with low or no engine oil.

1. Make sure the Engine is stopped and is level.
2. Close vent on Gas Cap.
3. On the right side of the Generator, remove the three Screws at the top and remove the Access Panel, as shown to the right.
4. Clean the top of the Dipstick and the area around it. Remove the Dipstick, turning it counterclockwise.
5. Check the oil level. The oil level should be up to the edge of the hole as shown.
6. As needed, add the appropriate type of oil until the oil level is at the proper level. SAE 10W-30 oil is recommended for general use.
7. Thread the Dipstick back in clockwise and replace the Access Panel.

NOTICE: Do not run the engine with too little oil. Engine will shut off if engine oil level is too low.

Oil filler cap



Checking and Filling Fuel

WARNING! TO PREVENT SERIOUS INJURY FROM FIRE:

Fill the fuel tank in a well-ventilated area away from ignition sources. If the Engine is hot from use, shut the Engine off and wait for it to cool before adding fuel. Do not smoke.

1. Clean the Fuel Cap and the area around it.
2. Unscrew and remove the Fuel Cap.
3. Remove the Strainer and remove any dirt and debris. Then replace the Strainer.

NOTE: Do not use gasoline containing more than 10% ethanol (E10). Do not use E85 ethanol.

NOTE: Do not use gasoline that has been stored in a metal fuel container or a dirty fuel container. It can cause particles to enter the carburetor, affecting Engine performance and/or causing damage.

4. If needed, fill the Fuel Tank to about 1 inch under the fill neck of the Fuel Tank with 87 octane or higher unleaded gasoline that has been treated with a fuel stabilizer additive. Follow fuel stabilizer manufacturer's recommendations for use.
5. Then replace the Fuel Cap.
6. Wipe up any spilled fuel and allow excess to evaporate before starting engine. To prevent FIRE, do not start the engine while the smell of fuel hangs in the air.

NOTE: Fill Fuel Tank completely before first use. Fuel Tank needs to be completely full to properly prime Carburetor.

Starting the Engine

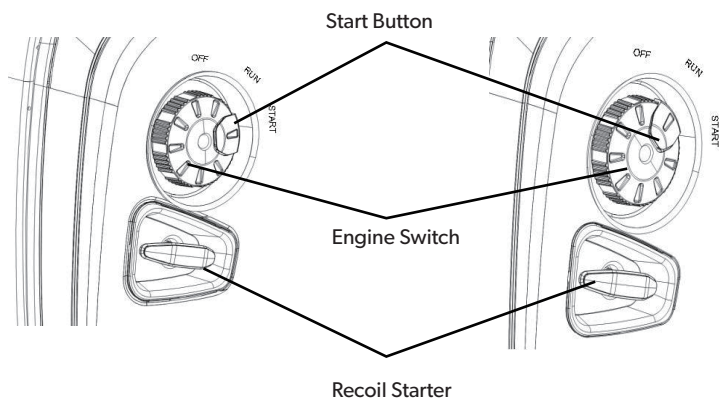


Before Starting the Engine

- a. inspect the generator and engine.
- b. Disconnect all electrical loads from the generator.
- c. Fill the engine with the proper amount and type of both stabilizer-treated unleaded gasoline and oil.

Recoil Starter

1. Remove all loads from the output end.
2. Rotate the start switch to place the start button in the "start" position.
3. Turn the AC BREAKER to "OFF"



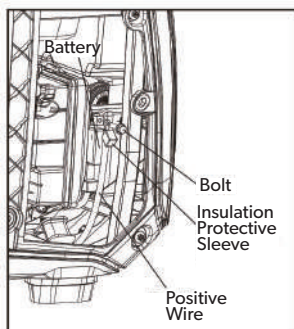
NOTICE

When the gasoline engine starts in the hot engine status, please rotate the start switch to place the start button in the "running" position.

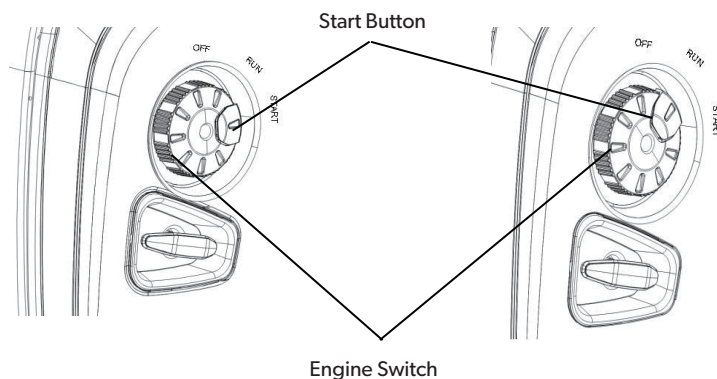
4. Pull the recoil starter slowly until it is engaged, then pull it briskly.
5. After starting the engine, rotate the engine switch to place the start button in the "run" position.
6. To use electrical equipment, AC circuit breaker protector should be placed in "on" position.

Electric Start

Before starting the generator, connect the positive wire with the positive terminal of battery, fasten it with proper tool and cover the connector with insulation protective sleeve. Refer to the below picture.



1. Remove all loads from the output end.
2. Rotate the start switch to place the start button in the "start" position.
3. Turn the AC BREAKER to "OFF"



WARNING

When the gasoline engine starts in the hot engine status, please rotate the start switch to place the start button in the "running" position.

4. Press the "ON" button.
5. After starting the engine, rotate the engine switch to place the start button in the "run" position.
6. To use electrical equipment, AC circuit breaker protector should be placed in "on" position.



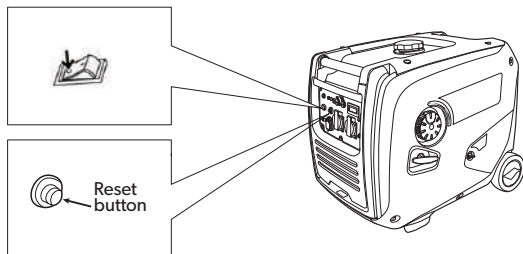
WARNING

Don't turn the generator switch to the electric starting position for more than 5 seconds, otherwise the starting motor will be damaged. If starting is unsuccessful, 10 seconds should be interval between multiple starting.

If the speed of the starting motor decreases more after a period of time, it means that the battery should be charged.

Nominal 12VDC Output

1. Do not use any 230VAC outlet while using the 12VDC outlet.
2. Move the Economy (ECO) Switch to the OFF position.
3. Only use the 12VDC receptacle to charge a 12 volt lead-acid type battery using an appropriate charge controller. (Battery and controller not included.) The 12VDC output is not regulated.
4. Do not connect any device to the 12VDC terminal that draws more than 8.3 amps.
5. If this 12VDC circuit protection is tripped, reduce the load, and press the Reset Button next to the outlet.

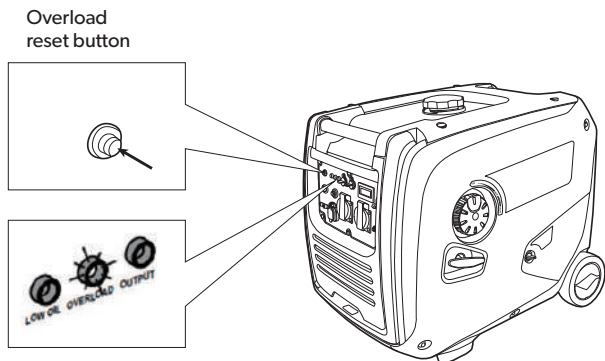


Connecting 230VAC Loads to the Generator

Overload Light

NOTE: The OVERLOAD light may turn on for a few seconds as a large device starts up. This is normal for loads approaching the capacity of this Generator.

1. The total combined load through the outlet on the Generator must not exceed the running power of the unit.
2. If the OVERLOAD light turns on and the Generator stops producing power, it has been overloaded.
3. Disconnect all electrical devices, and compare device requirements to Generator rating. Move anything that may be limiting Generator ventilation away.
4. Press and hold Overload Reset button above the Dual 120VAC Receptacle until OVERLOAD light turns off.
5. Reconnect devices while being careful to not overload Generator.

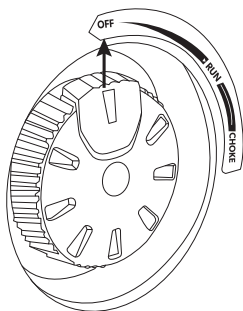


Economy (ECO) Switch

1. Turn the Economy Switch ON to limit noise and fuel consumption for lighter generator loads.
2. Turn the Economy Switch OFF to operate engine at full speed:
 - a. when starting,
 - b. when a heavy load is applied, or
 - c. when using the 12VDC output.

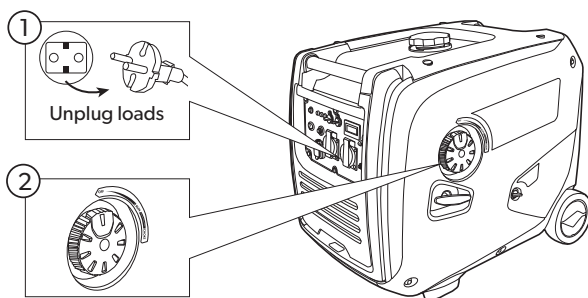
Stopping the Engine

To stop the Engine in an emergency, turn the Combination Switch off.



Under normal conditions, use the following procedure to shut off the Generator:


1. Turn all electrical load devices off and unplug them from the Generator.
2. Turn the Combination Switch off.



MAINTENANCE

WARNING































TO PREVENT SERIOUS INJURY FROM ACCIDENTAL STARTING: Turn the Combination Switch of the equipment to its “OFF” position, wait for the engine to cool, and disconnect the spark plug cap before performing any inspection, maintenance, or cleaning procedures. **TO PREVENT SERIOUS INJURY FROM EQUIPMENT FAILURE:** Do not use damaged equipment. If abnormal noise, vibration, or excess smoking occurs, have the problem corrected before further use. Follow all service instructions in this manual. The engine may fail critically if not serviced properly

 Many maintenance procedures, including any not detailed in this manual, will need to be performed by a qualified technician for safety. If you have any doubts about your ability to safely service the equipment or engine, have a qualified technician service the equipment instead.

Cleaning, Maintenance, and Lubrication Schedule

NOTE: This maintenance schedule is intended solely as a general guide. If performance decreases or if equipment operates unusually, check systems immediately. The maintenance needs of each piece of equipment will differ depending on factors such as duty cycle, temperature, air quality, fuel quality, and other factors.

NOTE: The following procedures are in addition to the regular checks and maintenance explained as part of the regular operation of the engine and equipment.

procedure	Before Each use	Monthly or every 8 hr. of use	Every 3 mo. or 50 hr. of use	50 hr. of use Every 6 mo. or 100 hr. of use	yearly or every 300 hr. of use	Every 2 years
Brush off outside of engine						
Check engine oil level						
Check air filter						
Change engine oil						
Clean/replace air cleaner			 *			
Check and clean spark plug						
1. Check/adjust idle speed 2. Check/adjust valve clearance 3. Clean fuel tank, strainer and carburetor 4. Clean carbon build-up from combustion chamber					 **	 **
Replace fuel line if necessary						 **

*Service more frequently when used in dusty areas.

**These items should be serviced by a qualified technician.

Checking and Filling Fuel

WARNING! TO PREVENT SERIOUS INJURY FROM FIRE:

Fill the fuel tank in a well-ventilated area away from ignition sources. If the engine is hot from use, shut the engine

Off and wait for it to cool before adding fuel. Do not smoke.



1. Clean the fuel cap and the area around it.
2. Unscrew and remove the fuel cap.
3. Remove the strainer and remove any dirt and debris. Then replace the strainer.

NOTE: Do not use gasoline containing more than 10% ethanol (E10). Do not use E85 ethanol. Add fuel stabilizer to the gasoline or the Warranty is VOID.

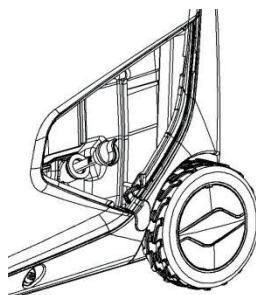
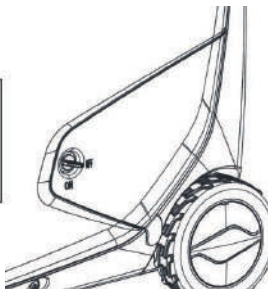
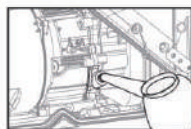
NOTE: do not use gasoline that has been stored in a metal fuel container or a dirty fuel container. It can cause Particles to enter the carburetor, affecting engine performance and/or causing damage.

4. If needed, fill the fuel tank to about 1 inch under the fill neck of the fuel tank with 87 octane or higher unleaded gasoline that has been treated with a fuel stabilizer additive. Follow fuel stabilizer manufacturer's recommendations for use.
5. Then replace the fuel cap.
6. Wipe up any spilled fuel and allow excess to evaporate before starting engine. To prevent fire, do not start the engine while the smell of fuel hangs in the air.

Engine Oil Change

CAUTION: oil is very hot during operation and can cause burns. Wait for engine to cool before changing oil.

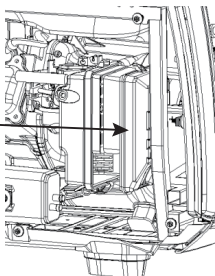
1. Make sure the engine is stopped and is level.
2. Close vent on gas cap.
3. Remove the access panel on the right side of the generator.
4. Clean the top of the oil fill plug and the area around it. Remove the oil fill plug, turning it counterclockwise.
5. Place the generator on stands with the oil fill centered over an oil drain pan. Tilt the generator over the oil drain pan and wait for oil to drain completely. Recycle used oil.
6. Set the generator back down on a level surface. Add the appropriate type of oil until the oil level is at the proper level. Sae 10w-30 oil is recommended for general use.
7. Check the oil level. The oil level should be up to the edge of the hole as shown.
8. Thread the oil fill plug back in clockwise and replace the access panel.



AIR Filter Element Maintenance

1. Remove the Access Panel on the right side of the Generator.
2. Remove the Air Filter Cover and the air filter elements and check for dirt. Clean as described below.

Air filter cover



3. Cleaning:
 - For "paper" filter elements: To prevent injury from dust and debris, wear ANSI-approved safety goggles, NIOSH-approved dust mask/respirator, and heavy-duty work gloves. In a well-ventilated area away from bystanders, use pressurized air to blow dust out of the air filter.
 - For foam filter elements: Wash the element in warm water and mild detergent several times. Rinse. Squeeze out excess water and allow it to dry completely. Soak the filter in lightweight oil briefly, then squeeze out the excess oil.
4. Install the cleaned filter.
5. Secure the Air Filter Cover and replace the Access Panel before use.

Spark plug Maintenance

1. Remove Access Panel from right side of Generator.
 2. Disconnect spark plug cap from end of plug. Clean out debris from around spark plug.
 3. Inspect the spark plug: If the electrode is oily, clean it using a clean, dry rag. If the electrode has deposits on it, polish it using emery paper. If the white insulator is cracked or chipped, the spark plug needs to be replaced. Using an incorrect spark plug may damage the engine.
 4. When installing a new spark plug, adjust the plug's gap to the specification on the Specifications chart. Do not pry against the electrode, the spark plug can be damaged.
 5. Apply anti-sieze material to Spark Plug threads. Install the new spark plug or the cleaned spark plug into the engine.
 - Gasket-style: Finger-tighten until the gasket contacts the cylinder head, then tighten about 1/2-2/3 turn more.
 - non-gasket-style: Finger-tighten until the plug contacts the cylinder head, then tighten about 1/16 turn more.
- NOTICE:** Tighten the spark plug properly. If loose, the spark plug will cause the engine to overheat. If overtightened, the threads in the engine block will be damaged.
6. Apply dielectric spark plug boot protector (not included) to the end of the spark plug and reattach the cap securely.
 7. Replace Spark Plug Access Cover and Access Panel.

TROUBLESHOOTING

problem	possible Causes	probable Solutions
Engine misfires	<ol style="list-style-type: none"> 1. Spark plug cap loose. 2. Incorrect spark plug gap or damaged spark plug. 3. Defective spark plug cap. 4. Old or low quality gasoline. 5. Incorrect compression. 	<ol style="list-style-type: none"> 1. Check cap and wire connections. 2. Re-gap or replace spark plug. 3. Replace spark plug cap. 4. Use only fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 5. Diagnose and repair compression. (Use Engine will not start: COMPRESSION RELATED section.)
Engine stops suddenly	<ol style="list-style-type: none"> 1. Fuel tank empty or full of impure or low quality gasoline. 2. Low oil shutdown. 3. Defective fuel tank cap creating vacuum, preventing proper fuel flow. 4. Faulty magneto. 5. Disconnected or improperly connected spark plug cap. 	<ol style="list-style-type: none"> 1. Fill fuel tank with fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 2. Fill engine oil to proper level. Check engine oil before EVERY use. 3. Test/replace fuel tank cap. 4. Have qualified technician service magneto. 5. Secure spark plug cap.
Engine stops when under heavy load	<ol style="list-style-type: none"> 1. Dirty air filter 2. Engine running cold. 	<ol style="list-style-type: none"> 1. Clean element.
Engine knocks	<ol style="list-style-type: none"> 1. Old or low quality gasoline. 2. Engine overloaded. 3. Incorrect spark timing, deposit buildup, worn engine, or other mechanical problems. 	<ol style="list-style-type: none"> 1. Fill fuel tank with fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 2. Do not exceed equipment's load rating. 3. Have qualified technician diagnose and service engine.
Engine backfires	<ol style="list-style-type: none"> 1. Impure or low quality gasoline. 2. Engine too cold. 3. Intake valve stuck or overheated engine. 4. Incorrect timing. 	<ol style="list-style-type: none"> 1. Fill fuel tank with fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 2. Use cold weather fuel and oil additives to prevent backfiring. 3. Have qualified technician diagnose and service engine. 4. Check engine timing.
Attached device doesn't have power	<ol style="list-style-type: none"> 1. Device not plugged in properly. 2. Circuit Breaker tripped. 3. Product needs service. 	<ol style="list-style-type: none"> 1. Turn off and unplug the device, then plug it back in again and turn on. 2. Turn off and unplug device, reset Circuit Breaker, plug in device and turn on.
Attached device begins to operate abnormally	<ol style="list-style-type: none"> 1. Problem with device. 2. Rated load capacity exceeded. 	<ol style="list-style-type: none"> 1. Immediately unplug device. Have device repaired by a qualified technician, or replace device. 2. Lower the number of items plugged into the generator to stay within the rated capacity, or use a more powerful generator.

CE DECLARATION OF CONFORMITY

WE
SUZHOU TOLSEN TOOLS CO.,LTD.
198 HUASHAN ROAD, ZHANGJIAGANG,
JIANGSU, CHINA

Declare that the product
79988 GENERATOR (H4500iE)
Rated output voltage:230VAC
Rated frequency:50Hz
Rated output power:4.2kW
Max. output power:5.0kW S2 5min
Protection class:I
Degree of protection: IP23M
Serial number: N/A

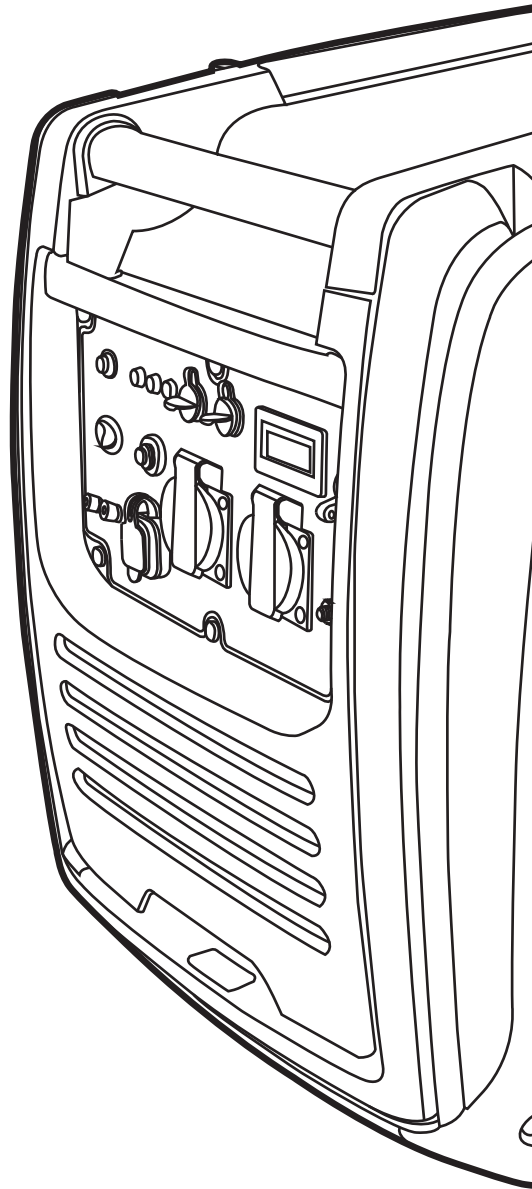
Complies with the essential health and safety requirements of the following Directives:
EC Machinery Directive 2006/42/EC
The EMC Directive 2014/30/EU

Standards and technical specifications referred to:
EN IEO 8525-13:2016
AfPS GS 2014:01 PAK
EN 55012:2007+A1
EN 61000-6-1:2007

Authorised Signatory and technical file holder
Signed for and on behalf of:
SUZHOU TOLSEN TOOLS CO.,LTD.
198 HUASHAN ROAD, ZHANGJIAGANG,
JIANGSU, CHINA
ZHANG XING YU
Group Quality Director

on:26/05/2020





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PRODUCT LINK