

Please, read this manual
before use!

Instruction



Inverter Generator

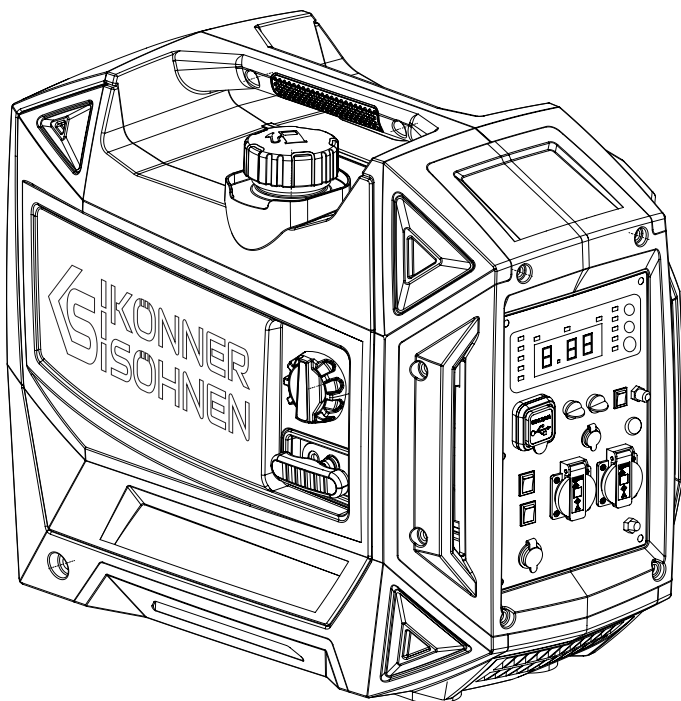
KS 2500iS

KS 2500iS H

KS 3500iS

KS 3500iS H

KS 3500iS PRO





ANNEX

Fig. 1A

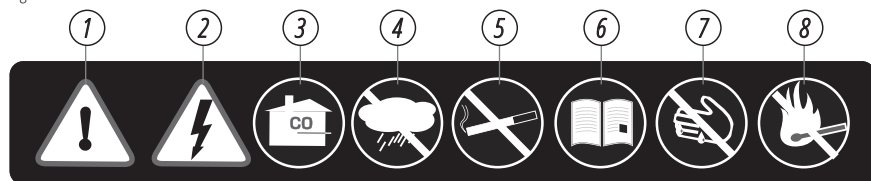


Fig. 1B

KONNER SOHNEN KS 3500iS PRO INVERTER GENERATOR GENERATOR INVERTOROWY

MAXIMUM POWER MOC MAXYMALNA	3.5* kW	POWER FACTOR WSPÓŁCZYNNIK MOCY	1.0	WEIGHT WAGA	25 kg
RATED POWER MOC NOMINALNA	3.0* kW	AC CURRENT MAX PRĄD MAX AC	15.22 A	YEAR OF ISSUE ROK PRODUKCJI	2026
VOLTAGE NAPIĘCIE	230 V/50 Hz	PROTECTED CLASS STOPień ochrony	IP23	S/N	202601.GN0351

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Fig. 1C



Fig. 1D

UNLEADED FUEL ONLY!

⚠️ NUR BLI EINFREIES BENZIN ⚠️
⚠️ SAMO BEZOLÓWEN BENZIN ⚠️
⚠️ SÓLO GASOLINA SIN PLOMO ⚠️
⚠️ TYLKO PALIWÓ BEZOLÓWIKOWE ⚠️
⚠️ ТІЛЬКИ НЕПЕТИЛОВАНИЙ БЕНЗИН ⚠️

Fig. 1E

MAINTAIN AIR FILTER!

Clean up in cleansing solvent (not flammable) and dry up once every 50 hours (every 10 hours in unusually dusty conditions) and then immerse in clean engine oil until saturated, squeeze out excessive oil.

Fig. 1F



Fig. 2

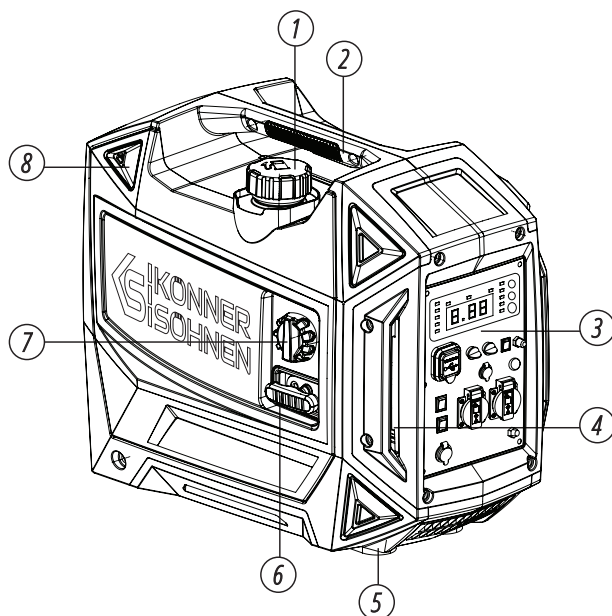




Fig. 3

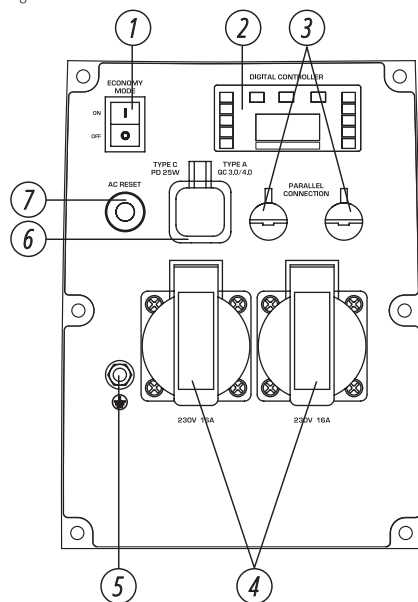


Fig. 4

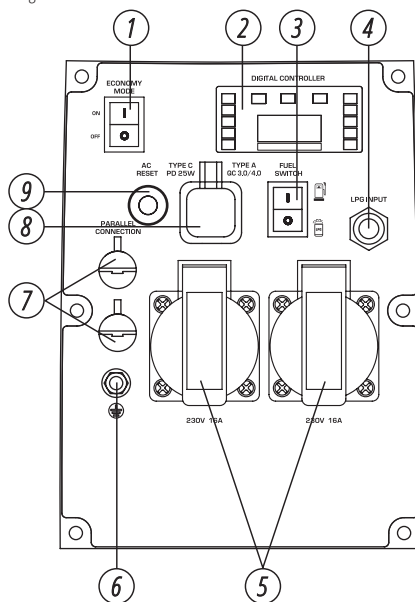


Fig. 5

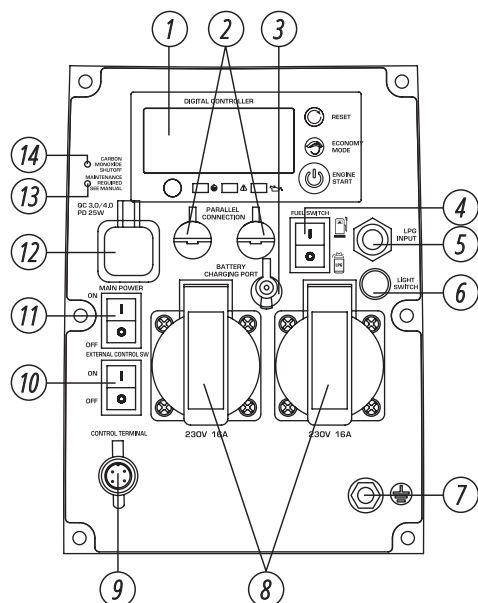


Fig. 6.1



Fig. 6.2



Fig. 6.3



Fig. 6.4



Fig. 6.5

a)



b)



Fig. 6.7



Fig. 6.6



Fig. 6.8





Fig. 7

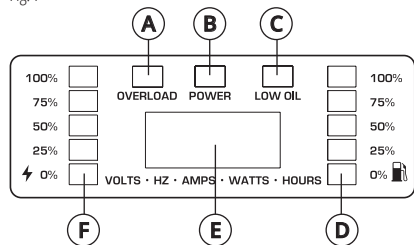


Fig. 8

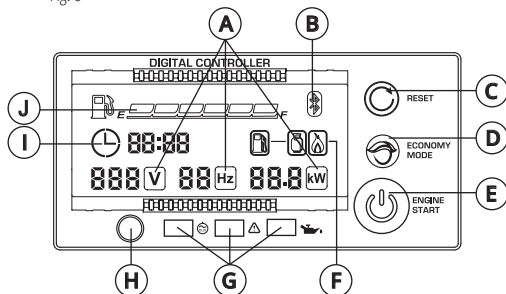


Fig. 9A



Fig. 9B

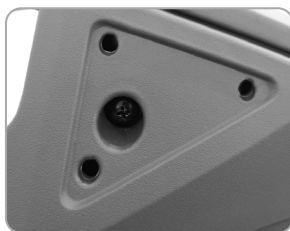


Fig. 9C



Fig. 10

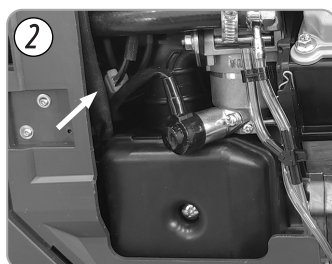


Fig. 19

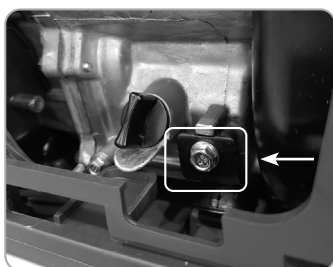
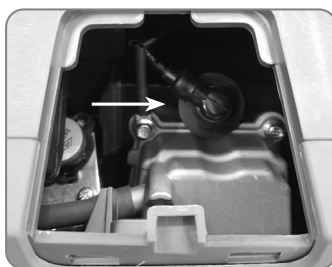


Fig. 20





INTRODUCTION

Thank you for choosing **Könnér & Söhnen®** products. This manual provides a brief description of safety requirements, setup procedures, and operating instructions. More information is available in the support section at:

konner-sohnen.com/pages/instructions

You can also download the manual by scanning the QR code or by visiting the official importer's website at **www.konner-sohnen.com**



| Please, read this manual before use!

The manufacturer reserves the right to make changes that may not be reflected in this manual, including:

- The manufacturer reserves the right to make changes in the product design, configuration and construction.
- The images and drawings in this manual are for reference only and may differ from the actual components and inscriptions on the products.

Contact information for technical support is provided on the official website. All information in this manual is correct to the best of our knowledge at the time of publication. The current list of service centers can be found on the official importer's website at **www.konner-sohnen.com**

⚠ ATTENTION – DANGER! Failure to follow the recommendations marked with this sign may lead to serious injury or death of the operator or third parties.

⚠ IMPORTANT! Useful information while operating the machine.



SAFETY INFORMATION

Do not use the generator in rooms or in conditions of excessive humidity. Do not place the generator in water or on moist soil. Do not expose the generator to rain, snow, as well as to direct sunlight for a long time. Place the generator on a flat, hard surface, away from flammable liquids/gases (at a minimum distance of 1 m). Install the generator at a distance of not less than 1 m from the front control panel and not less than 50 cm on each side, including the upper part of the generator. Keep unauthorized persons, children, and animals away from work area. Wear safety shoes and gloves.

⚠ ATTENTION – DANGER! When using the generator, attention must be paid to the actual power consumption of the connected electrical devices, including the power factor (cosφ) and the starting power, which for devices with motors can be several times higher than the rated power and must not exceed the maximum output of the generator.

⚠ ATTENTION – DANGER! As exhaust gases contain poisonous carbon dioxide and carbon monoxide (CO) gases which are dangerous for life, it is strictly forbidden to install the generator in residential buildings, premises connected to residential buildings by a common ventilation system, other rooms from which exhaust gases may enter living premises.

Residual risks

Despite all design and safety measures applied to this generator set, certain residual risks may still remain during its operation.

Noise exposure

The guaranteed sound power level of this generator does not exceed the limits established by Directive 2000/14/EC and applicable EU regulations. However, prolonged exposure to noise, even within permitted limits, may cause discomfort or fatigue.

Recommendation: When working close to the running generator for extended periods, use approved hearing protection and avoid staying unnecessarily near the noise source.

Vibration risk

The generator is equipped with vibration-isolating mounts to reduce transmission of vibration to surrounding structures.

Nevertheless, continuous or improper operation may lead to operator discomfort or health effects associated with long-term vibration exposure (such as hand-arm vibration syndrome).

Recommendation: Operate the generator only on its vibration-damping supports and avoid prolonged contact with vibrating components.

Environmental hazards

During fuel filling, oil change, or maintenance, spilled oil or fuel may cause environmental contamination.

⚠ IMPORTANT! Prevent any fuel or oil from entering soil, sewage systems, or water sources.

In case of leakage or accidental spill, stop the engine immediately, collect the liquid with approved absorbent material, and dispose of it according to local environmental regulations.



ELECTRICAL SAFETY

⚠ ATTENTION – DANGER! The device generates electricity. Follow safety precautions to avoid electric shock.

Generators are designed as portable power sources and feature basic protection through insulation of live parts in accordance with DIN VDE 0100-410. Live cables are insulated from the generator frame (IT system with floating neutral). Electrical devices may only be connected directly to the generator's sockets without additional protective measures.

⚠ IMPORTANT! Connecting a distribution board for more than one electrical device may only be carried out by qualified electricians or electrically instructed persons, observing the relevant safety precautions.

⚠ IMPORTANT! It is forbidden to connect to the generator devices which can generate current pulses and direct energy towards the generator (voltage stabilizers, devices with electronic brakes, on-grid and hybrid inverters, etc.).

The generator and power consumers form a closed system, with elements affecting each other. This system is physically different from the public network since it is significantly affected by factors such as unbalanced phase load and non-linear current consumption by power consumers that can cause damage to the generator and power consumers connected to it.

Never connect the generator to a building installation through a wall socket for power consumer or by means of a cable with two male plugs. Connection to a fixed electrical installation is permitted only through an approved changeover device installed by a qualified electrician. The changeover device must prevent any parallel connection between the generator and the public mains supply.

⚠ IMPORTANT! Using device for other purposes deprives the right for free warranty.

⚠ ATTENTION – DANGER! Be careful. Do not operate the generator, if you are tired, under the influence of drugs or alcohol. Inattention may cause a serious injury.



PRECAUTIONS WHEN WORKING WITH GASOLINE GENERATOR

Do not start the generator operation upon presence of electric load! Disconnect the load before you stop the engine. **Use only unleaded gasoline with an octane rating of 90–95 containing no more than 10% ethanol.** The use of kerosene or any other type of fuel is not allowed! Always follow the manufacturer's recommendations regarding the shelf life and storage of fuel. The fuel in the tank comes into contact with air, which can affect its quality. Over time, depending on the quality of the fuel, deposits may accumulate in the float chamber of the carburetor, which must be drained regularly to ensure the carburetor functions properly. If the generator is not used for an extended period of time, we recommend completely draining the gasoline from the carburetor and the tank via the drain screw on the carburetor to prevent the formation of deposits in the fuel system. Failure to follow these recommendations may lead to the damage of the carburetor.

⚠ ATTENTION – DANGER! Fuel contaminates the land and groundwater. Do not allow the leaking gasoline from the tank!

Fire safety

Keep a suitable fire extinguisher nearby when operating or servicing the generator.

Use only extinguishers suitable for flammable liquids and electrical equipment, such as:

- CO₂ (carbon dioxide) extinguishers
- Foam extinguishers (AFFF type)

Do not use water-based extinguishers on fuel or electrical fires.

Ensure personnel are trained in the proper use of fire extinguishers.

Each time you start the generator, inspect the battery cables to prevent sparking and possible fire. The batteries must be kept clean. Use only the recommended cables and connections during generator operation. Fuel and fumes generated during operation can be flammable and potentially explosive. Safety regulations require fully charged fire extinguishers to be kept within easy reach of the generator.

⚠ ATTENTION – DANGER! Always start and use the generator set in a well-ventilated area. It is prohibited to use the generator in an unprepared room (without calculated supply ventilation or a properly designed exhaust gas removal system).



PRECAUTIONS WHEN WORKING WITH HYBRID GENERATOR

⚠ IMPORTANT! For dual fuel models, propane-butane mixture for cars (LPG) or propane can be used as gas! It is forbidden to use any other gas!

Do not start the generator operation upon presence of electric load! Before usage make sure, that all the hoses are connected properly. In case of gas leakage, stop the gas flow from the source to generator and ventilate the room as soon as possible. For stopping gas powered engine: disconnect all the connected devices first,

then close the gas valve, then turn off the engine. After that set the starter switch to OFF position and turn off the gas supply valve.

- **ATTENTION – DANGER! Do not allow sparks near gas powered generator during its work.**
- **ATTENTION – DANGER! The gas cylinder valve must not be closed when the generator is not running. The generator must not be operated on gas in basements.**
- **ATTENTION – DANGER! Pay attention! Usage of gasoline together with liquefied gas is forbidden! When you operate using gasoline, you must stop LPG supply. When you operate generator using LPG - you must stop gasoline supply.**



SAFETY SYMBOLS DECRYPTION

Fig. 1A

1. Be careful when operating the device! Observe the safety instructions in this manual.
2. The device generates electricity. Observe safety precautions to avoid electric shock.
3. Operate the generator only in properly prepared rooms or outdoors. Exhaust gases contain CO, whose vapors are life-threatening.
4. Do not use or store the device in high humidity.
5. Do not smoke while operating the generator!
6. Read this owner's manual carefully before operating the device.
7. Do not touch the generator with wet or dirty hands.

8. Observe fire safety regulations, and do not operate the generator near open flame.

Fig. 1B Product label on the generator, listing technical features, specifications, and manufacturer information for customer and regulatory reference.

Fig. 1C Indicates the noise level.

Fig. 1D Use only unleaded petrol with an octane rating of 90–95 containing no more than 10% ethanol.

Fig. 1E Air filter changing is to be performed each 50 hours of the power plant operation (every 100 hours in unusually dusty conditions).

Fig. 1F Please don't touch! The working surface heats up when running the generator.



MAIN OVERVIEW (Fig. 2)

- | | | |
|---------------------------|---|---|
| 1. Fuel tank cap air vent | 5. Anti-vibration system | Multifunction switch for models KS 2500iS, KS 3500iS. |
| 2. Carrying handle | 6. Manual starter | |
| 3. Control panel | 7. Fuel valve for models KS 2500iS H, KS 3500iS H, KS 3500iS PRO. | 8. Reinforced rubber corner elements |
| 4. Built-in LED lighting | | |



Control panel for models KS 2500iS, KS 3500iS (Fig.3)

- | | | |
|------------------------------|-----------------------------|---------------------|
| 1. Economy mode switch | 4. AC outlets 2×Schuko 230V | 6. USB-Outputs 2×5V |
| 2. Small digital controller | 5. Earthing bolt | 7. Reset button |
| 3. Generator parallel socket | | |



Control panel for models KS 2500iS H, KS 3500iS H (Fig.4)

- | | | |
|-----------------------------|-----------------------------|------------------------------|
| 1. Economy mode switch | 4. LPG input | 7. Generator parallel socket |
| 2. Small digital controller | 5. AC outlets 2×Schuko 230V | 8. USB-Outputs 2×5V |
| 3. Fuel selector switch | 6. Earthing bolt | 9. Reset button |



Control panel for models KS 2500iS H, KS 3500iS PRO (Fig.5)

- | | | |
|------------------------------|--|------------------------------------|
| 1. Big digital controller | 6. Light switch | 11. Main power switch |
| 2. Generator parallel socket | 7. Earthing bolt | 12. USB-Outputs 2×5V |
| 3. Battery charging port | 8. AC outlets 2×Schuko 230V | 13. Maintenance required indicator |
| 4. Fuel selector switch | 9. Connection for external PF control contacts | 14. Carbon monoxide shutoff |
| 5. LPG input | 10. External control switch | |



COMPONENTS OF SET

Inverter generators are supplied in a set with portable power plug 230V (16A) (Fig. 6.1), spark plug and wrench kit (Fig. 6.2), parallel line (Fig. 6.3), screwdriver (Fig. 6.4), oil funnel (Fig. 6.5 – a) for the KS 2500iS, KS 3500iS models; b) for dual-fuel models), LPG/NG valve for dual fuel models (Fig. 6.6), two way stop start line (10m) for model KS 3500iS Pro (Fig. 6.7), charging adapter for model KS 3500iS Pro (Fig. 6.8).

SPECIFICATIONS

Model	KS 2500iS	KS 2500iS H	KS 3500iS	KS 3500iS H	KS 3500iS PRO
Voltage	230V	230V	230V	230V	230V
Maximum/Peak power	2,0 kW/2,3 kW	2,0* kW/2,3* kW	3,3 kW/3,5 kW	3,3* kW/3,5* kW	3,3* kW/3,5* kW
Nominal power	1,8 kW	1,8* kW	3,0 kW	3,0* kW	3,0* kW
Frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Current (max.)	8,7 A	8,7 A	14,3 A	14,3 A	14,3 A
Outlets	2×Schuko 230V 16A				
Engine start	manual	manual	manual	manual	manual/electric
Fuel tank volume	3,8 l	3,8 l	3,8 l	3,8 l	3,8 l
Working time at 50% load (gasoline fuel)**	0,65 l/h	0,65 l/h	1 l/h	1 l/h	1 l/h
Digital controller***	smaller	smaller	smaller	smaller	bigger
APP control	–	–	–	–	+
USB + Type C	2×USB (Type-A QC3.0/4.0, Type-C PD25W)				
Engine model	KS 110i	KS 110i	KS 160i	KS 160i	KS 160i
Engine volume	79,7 cm³	79,7 cm³	145 cm³	145 cm³	145 cm³
Engine type	gasoline, 4 stroke cycle engine	LPG/gasoline 4 stroke cycle engine	gasoline, 4 stroke cycle engine	LPG/gasoline 4 stroke cycle engine	LPG/gasoline 4 stroke cycle engine
Engine power	3 hp	3 hp	5,2 hp	5,2 hp	5,2 hp
Generator parallel socket	+	+	+	+	+
Crankcase volume	0,35 l	0,35 l	0,45 l	0,45 l	0,45 l
Power factor	cos φ 1 (230V)	cos φ 1 (230V)	cos φ 1 (230V)	cos φ 1 (230V)	cos φ 1 (230V)
CO sensor	–	–	–	–	+
LED Light	–	–	–	–	+
Gross dimensions (L×W×H)	550×340×480 mm	700×340×480 mm	550×340×480 mm	700×340×480 mm	700×340×480 mm
Net dimensions (L×W×H)	520×320×437 mm	520×320×437 mm	520×320×437 mm	520×320×437 mm	520×320×437 mm
Lithium battery	–	–	–	–	1 Ah
Gross/Net weight	22,4/19,3 kg	24,1/19,8 kg	25,5/23,5 kg	27,5/24,5 kg	30,1/25 kg
Protection class	IP23				
Maximum permissible deviation from the rated voltage: ±5%					

*LPG operation reduces generator power by 10%.

**Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the generator.

*** Smaller digital controller: overload alarm; output indicator; low oil alarm; fuel level indicator; voltage, frequency, current, output power, working hours; load. Bigger digital controller: low oil alarm, overload alarm, output indicator; output power, frequency, voltage, working hours, fuel level; Bluetooth App Control, AC reset, economy mode, engine start, fuel type, CO sensor failure).

The optimal operating conditions are ambient temperature of 17-25°C, barometric pressure of 0.1 MPa (760 mm Hg), and relative humidity of 50-60%. Under these environmental conditions, the generator can provide maximum performance in terms of the declared specifications. In the event of deviations from these environmental indicators, the generator performance may vary.

Please note that continuous loads exceeding 80% of the generator's rated power are not recommended in order to extend its service life.



EC Declaration of Conformity

Inverter generator

Könnér & Söhnen® declares that these products described below
KS 2500iS, KS 2500iS H, KS 3500iS, KS 3500iS H, KS 3500iS PRO

Technical data are in compliance with 2006/42/EC, 2014/30/EU, 2000/14/EC.

EN ISO 8528-13:2016, EN 55012:2007+A1:2009,

EN IEC 61000-6-1:2019

ISO 8528-10: 2022

EN ISO 3744:2010

These products also comply with 2006/42/EC Machinery Directive, 2014/30/EC Electromagnetic compatibility Directive (EMC), 2000/14/EC Noise Directive.

For more information, please contact Könnér & Söhnen® at the following address or refer to the back of the manual.

The undersigned is responsible for compilation of the technical file and makes this declaration on behalf of Könnér & Söhnen®.

P. Fomin

Director, 8 Flinger Broich 203, 40235 Duesseldorf, Germany:

30.01.2026

DIMAX

International GmbH

Flinger Broich 203 40235 Düsseldorf

USt-ID DE296177274

koenner-soennen.com

P. Fomin

REACH Regulation (EC) No. 1907/2006

The manufacturer confirms that this product complies with the requirements of the REACH Regulation concerning the restriction of substances of very high concern (SVHC). We confirm that supplied parts comply with REACH Regulation (EC) 1907/2006 and contain no SVHC above 0.1%

Based on information received from component suppliers, no SVHC are present in concentrations exceeding the limits defined by the regulation.

This declaration is made on the basis of self-assessment and supplier statements.

RoHS Directive 2011/65/EU

This product contains electrical and electronic components that are subject to the RoHS Directive 2011/65/EU.

Based on information and test reports provided by component suppliers, the manufacturer confirms that these components comply with RoHS Directive 2011/65/EU.



TERMS OF USE OF INVERTER GENERATOR

Before starting the device, remember that the total power of the connected power consumers should not exceed the nominal power of the generator.

⚠ IMPORTANT! Inverter generators produce 230 V at 50 Hz and must not be used as a replacement for the main power grid when powering devices designed to feed energy into the electrical grid (such as grid-tied inverters, hybrid inverters, microinverters, etc.). These devices may detect the 230 V 50 Hz output from the inverter generator as the main power supply and can damage the generator through backfeeding.

⚠ IMPORTANT! Make sure that the control panel, the blinds and the underside of the inverter are well cooled and protected against the ingress of small solids, dirt, and water. Improper operation of the cooler can cause damage to the motor, inverter or alternator.



GENERATOR OPERATION

Oil level indicator

When the oil level falls below the level required for operation, the oil level indicator lights up, and then the engine stops automatically. The engine will not start until oil is added.

AC indicator

When the generator is running and producing electricity, the AC indicator light is on.

OVERLOAD indicator

The overload indicator lights up when the connected generator is overloaded, the inverter control unit overheats or the AC output voltage rises. If the overload indicator goes on, the engine will continue to operate, but the generator will no longer produce electricity. In this case, you must perform the following steps:

1. Turn off all connected electrical appliances and stop the engine.
2. Reduce the total power of the connected devices until the nominal power of the generator is reached.
3. Check if the vent grid is clogged. Remove excess dirt or debris, if any.
4. After checking, start the engine.

⚠ IMPORTANT! The overload indicator may light up within several seconds after start-up or when connecting electrical devices requiring a high starting current, such as a compressor or voltage indicator. However, this is not a malfunction.

Earthing bolt

Depending on the installed network, the generator's grounding screw must be connected either to the equipotential bonding bar (IT network) or to the grounding system (TN network). **The generator is built as an IT system (isolated terra) and has no internal connection between N and PE.** Grounding of the generator is not required for mobile applications and direct power supply to electrical loads. Grounding the generator or equipotential bonding via the grounding screw is not required for mobile applications and direct power supply to electrical loads. Equipotential bonding between the generator and the electrical loads is achieved via the PE contact of the sockets and the corresponding conductors of the power cables. Connection of the external distribution should only be carried out by a qualified electrician, observing all prescribed safety precautions.

It is the responsibility of a trained electrician to follow national regulation to properly assess the correct installation type.

Any modification to bond Neutral to Earth must only be performed by a qualified electrician in accordance with local regulations.

Carbon monoxide shutoff (for model KS 3500iS PRO)

Flashing red light: dangerous levels of carbon monoxide gas have built up, leave immediately until area has aired out. Move generator to well-ventilated area before operation. The CO sensor monitors for the accumulation of poisonous carbon monoxide gas around the generator when the engine is running.

If increasing levels of CO gas are detected, the CO Sensor automatically shuts down the engine.

CO sensor failure (for model KS 3500iS PRO)

Flashing yellow light: carbon monoxide sensor malfunction, sensor needs service.

SMALL Digital controller for models KS 2500iS, KS 2500iS H, KS 3500iS, KS 3500iS H (Fig.7)

- A:** Overload alarm
B: Output indicator
C: Low oil alarm

- D:** Fuel level indicator
E: Voltage, frequency, current, output power, working hours
F: Load

BIG Digital controller for model KS 3500iS PRO (Fig.8)

- A:** Voltage, frequency, output power
B: Bluetooth App Control
C: AC Reset
D: Economy mode
E: Engine start

- F:** Fuel type
G: Output indicator, overload alarm, low oil alarm
H: CO sensor failure
I: Working hours
J: Fuel level indicator

Light switch (for model KS 3500iS PRO)

The generator control panel is equipped with a Light Switch button that activates additional illumination around the control panel and on the sides of the generator, providing improved visibility and convenient operation in low-light conditions.



CHECK BEFORE GETTING STARTED

Checking the fuel level

1. Unscrew the fuel cap and check the fuel level in the tank.
2. Fill the fuel tank to the fuel filter level.
3. Tighten the fuel cap securely.
4. For silent models of inverter generator, open the air intake vent on the fuel cap.

Recommended fuel: unleaded gasoline with an octane rating of 90–95 containing no more than 10% ethanol.

Fuel tank volume: see specifications table.

⚠ IMPORTANT! Wipe up spilled fuel immediately with a clean, dry, soft cloth, as the fuel may harm painted surfaces or plastic parts.

⚠ IMPORTANT! Be sure to observe the expiration date of the gasoline. If the generator is not going to be used for an extended period, always drain the gasoline from the carburetor and, if necessary, from the fuel tank. Deposits in the fuel system can lead to engine malfunctions.

■ Checking the oil level

The generator is transported free of motor oil. Do not start the engine until it is filled with sufficient amount of motor oil.

1. Unscrew the screws located beneath the rubber triangular elements of the generator and open the service cover (fig. 9A, 9B).
2. Unscrew the oil dipstick (fig. 9C) and wipe it out with a clean cloth.
3. Fill the crankcase with engine oil. The recommended amount of oil for each model is indicated in the specification chart.
4. Insert the dipstick without screwing it in.
5. Check the oil level by a mark on the oil dipstick.
6. Add oil if its level is below the mark on the oil dipstick.
7. Screw on the dipstick.

Recommended motor oil: SAE 10W30, SAE 10W40.

Recommended motor oil grade: API Service SG type or higher.

Motor oil quantity: see specifications table.



GETTING STARTED

Before starting the engine, make sure that the rated power of power consumers matches with the power of generator. Do not exceed the nominal power of the generator. **Do not connect any devices before you start the engine!**

⚠ ATTENTION – DANGER! The peak power can be delivered for a short duration, up to approximately 5 seconds. Please note that this may vary depending on environmental conditions. The max power should be used for short periods for starting equipment with high inrush currents. It is not intended for continuous operation. The required starting power of the motor must not exceed the peak starting power of the generator.

⚠ ATTENTION – DANGER! Emergency generators should not run continuously (e.g. by adding fuel to the tank or connecting a large fuel tank) or longer than recommended: 4-6 hours for LPG/gasoline or gasoline generators (depending on load).

This material is for informational purposes only and does not constitute a manual for installing the equipment or connecting it to the mains, but we strongly recommend that you read the instructions below. Equipment connection must always be carried out by a certified electrician responsible for the installation and electrical connection of the equipment according to local laws and regulations. The manufacturer assumes no liability for improper connection of the equipment or for any material or physical damage that may result from improper installation, connection or operation of the equipment.

■ Commissioning

1. Fill the crankcase with engine oil. The recommended amount of oil for each model is indicated in the specification chart.
2. Check oil level with an oil dipstick. It should be between the MIN and MAX marks on the oil dipstick.
3. Check fuel level.
4. Check the air filter for correct installation.

■ In the first 20 operating hours of the generator, the following requirements should be met:

1. During commissioning, do not connect power consumers, the power of which exceeds 50% of the nominal (operating) power of the device.
 2. After the first 20 operating hours, be sure to change the oil. It is better to drain oil while the engine is still hot after operation to ensure quick and complete oil draining.
 3. Check and clean the air filter, fuel filter and spark plug.
-



LITHIUM BATTERY – CONNECTION & MAINTENANCE

⚠ IMPORTANT! During the first startup, it is necessary to connect the cable linking the generator and the battery.

The generator is shipped with terminals disconnected to prevent battery self-discharge during storage. To connect the battery of models with electric start, proceed as follows:

Fig.10

1. Unscrew the screws located beneath the rubber triangular elements of the generator and open the service cover.
2. Connect the negative terminal of the battery by connecting the negative cable.

For models with electric start, check if the battery is charged. If necessary, recharge the battery with a dedicated charger for lithium-ion batteries or start the generator with a manual start and allow it to run idle while it is recharging.

Models with electric start are equipped with a lithium (LFP) starter battery. Connect the cable linking the generator and the battery (battery is shipped disconnected to prevent self-discharge). The battery is automatically charged while the generator is running; if the generator is used infrequently or the charge level is low, recharge it via the battery charging port using a suitable charger (max. 14–14.5 V, with LFP mode and reverse polarity protection, e.g., KS-B2A). Avoid repeated start attempts to prevent starter overheating. For long-term battery storage, disconnect the cable from the battery and recharge at least every 1–3 months to maintain the charge at 60%.

Battery Handling. Preparation for Long-Term Storage

If the generator is not used for an extended period (more than one month), the battery must be prepared for storage:

Disconnect the battery:

1. Turn off the generator and make sure all systems are de-energized.
2. Disconnect the cable connecting the generator and the battery.
3. If necessary, remove the battery from the generator for separate storage.

Storage conditions:

1. Store the battery in a dry, clean, and well-ventilated area at a temperature between +5 °C and +25 °C.
2. Avoid direct sunlight and exposure to moisture.

Maintaining the charge:

1. For long-term storage, it is recommended to charge the battery to 60%.
2. If the battery is stored for more than 3 months, it is recommended to recharge it every 2–3 months to 60%.

Returning the battery to operation.

Before reinstalling the battery on the generator:

1. Check the charge level and recharge if necessary.
2. Inspect the casing and terminals for any damage or corrosion.
3. Connect the battery.
4. Ensure all connections and mounts are secure.

Battery maintenance.

In Könnér & Söhnen® models with electric start, you should periodically perform battery voltage checks. The generator battery has a voltage of 12V, if the voltage is lower, you should perform battery charging with the help of an external charger (not included in the delivery set).

To avoid discharging the battery, it is recommended to run the generator at least once a month for 30 minutes. If the generator is not used for a long time, please disconnect the battery from the terminals. The battery that comes with the generator does not require additional maintenance.

If the generator is not used for a long time, the battery may fail. To prolong battery life it is recommended to do battery charging with an external device (not included) every three months.

Battery warranted - three months from the date of purchase of the generator.

⚠ IMPORTANT! Please note that if you fail to start up generators, the batteries may run out; therefore, the batteries must be fully charged before starting operation.

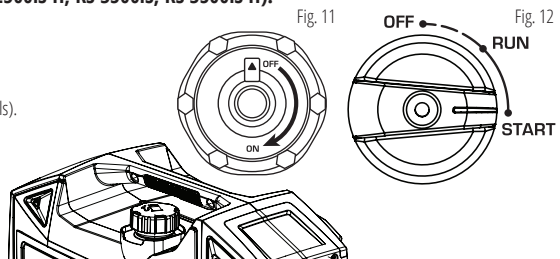
Engine start

⚠ IMPORTANT! Useful tip: If the engine stops shortly after starting or does not start at all, we recommend draining the remaining settled fuel with possible impurities from the carburetor and checking the oil level. The generator is equipped with a low oil level protection system, and the engine will stop if the oil level in the engine is too low.

⚠ IMPORTANT! Deposits from the carburetor's float chamber should be drained regularly. If the generator is not going to be used for an extended period, close the fuel tap and drain the gasoline from the carburetor to prevent possible deposits from forming inside the carburetor.

Running generator on gasoline (KS 2500iS, KS 2500iS H, KS 3500iS, KS 3500iS H):

1. Check the oil level.
2. Check fuel level.
3. Set the Economy Mode button to the "OFF" position.
4. Set the fuel switch FUEL SWITCH to "Gasoline" (for dual fuel models).
5. Open the vent on the fuel cap to the "ON" position (fig. 11).
6. Turn the Multifunctional switch to the "START" position (fig. 12).
7. For manual start pull the manual starter until a slight resistance is felt, then pull it toward you relatively sharply. Slowly return the manual starter by hand, do not release it abruptly.
8. After the engine starts, turn the multifunctional switch to the "RUN" position.
9. Wait 1-2 minutes and connect electrical appliances.



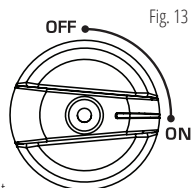
⚠ IMPORTANT! Useful tip: to ensure long-term operation of the generator engine, it is important to observe the following tips:

- Before connecting the load, allow the engine to run for 1-2 minutes to warm it up.
- When disconnecting the load after lengthy operation, do not turn off the generator. Allow the generator to run idle for 1-2 minutes so that it cools down.

⚠ ATTENTION – DANGER! Do not connect two or more devices at a time. The start-up of many devices requires high power. Devices should be connected one at a time according to their power rating.

Running generator on gasoline (KS 3500iS PRO):

1. The generator is supplied with disconnected battery. When using the generator for the first time, open the maintenance door and connect the battery line. For long-term storage of generator, disconnect the battery line.
2. Check oil level.
3. Check fuel level.
4. Set the Economy Mode button to the "OFF" position.
5. Set the fuel switch FUEL SWITCH to "Gasoline" .
6. Open the vent on the fuel cap to the "ON" position (fig. 11).
7. Open fuel valve (position "ON", fig 13).
- 8.1 For manual start press MAIN POWER button to "ON" position, pull the handle of manual starter until a slight resistance is felt, then pull it relatively sharply. Slowly return the manual starter handle by hand, do not release it abruptly.
- 8.2. For electric start – press MAIN POWER button to "ON" position, then press the ENGINE START button, hold it until the engine starts, but no longer than 5 seconds.
9. Wait 1-2 minutes and connect electrical appliances.



Running generator on LPG (KS 2500iS H, KS 3500iS H, KS 3500iS PRO models):

1. Check the oil level.
2. Set the Economy Mode button to the "OFF" position.
3. Set the fuel switch FUEL SWITCH to "LPG".
4. Connect the LPG hose to the LPG input (connect hose end **A** to the generator's LPG connection and tighten with a wrench, but very carefully to avoid twisting and damaging the gas fitting inside the generator. The torque for tightening the hose when connecting the gas is 6-7 N·m.).
5. Connect the hose end with the reducer to the gas cylinder (connect hose end **B** to the gas cylinder, as shown in Fig. 14).
6. Open the gas valve on the cylinder.



⚠ IMPORTANT! Making sure that no gas is leaking.

7. Set the multifunctional switch to a position in between "START" and "RUN" (fig. 12). Please note! The engine switch position depends on the ambient temperature and the composition of the gas mixture. If the engine is warm, it can be started directly in the "RUN" position. Pull the handle of manual starter until a slight resistance is felt, then pull it relatively sharply. Slowly return the handle manual starter by hand, do not release it abruptly. Turn the Multifunctional switch to the "RUN" position (fig. 12).
8. For electric start (model KS 3500iS PRO)- press MAIN POWER button to "ON" position, then press the ENGINE START button. If the engine does not start on the first try, press the ENGINE START button again in 3-5 seconds.
9. When using for the first time, fill the gas line with gas by turning the key (pressing start button) to the "OFF" position and slowly pull the starter handle to the full cord length 2 to 3 times with the gas cylinder valve open.

⚠ IMPORTANT! Disconnect the load from the generator before changing fuel. The Economy Mode switch must be in the "OFF" position.

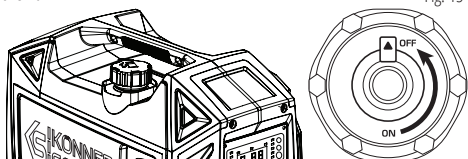
It is recommended to stop the generator before switching from gasoline to LPG! Gasoline remains in the carburetor make it difficult to start the engine on LPG. Let the generator run out of gasoline until it stops. To do this, close the fuel valve with the generator running and wait until the generator stops completely. Then start the generator on LPG. You can also drain the remaining gasoline from the carburetor before starting the generator on LPG.

⚠ IMPORTANT! Place the container with gas only vertically, according to the instruction manual for gas cylinders. The horizontal placement of gas cylinders leads to hybrid generator gearbox failure.

⚠ IMPORTANT! Fuel switch should only be performed with the load off.

To stop the engine, proceed as follows

1. Turn off all devices.
2. Allow the generator to run idle for approx. 1-2 minutes.
3. For dual fuel models close LPG supply valve on LPG bottle.
4. Turn the multifunctional switch (Fig. 16) or fuel valve (Fig. 17) (depends on mod-



el) to the "OFF" position. For model KS 3500iES PRO press the ENGINE START button, then press MAIN POWER button to "OFF" position.

5. Unplug the devices.

6. After the generator stops, allow it to cool down and close the air vent on the fuel cap (set to "OFF", as shown in Fig. 15).

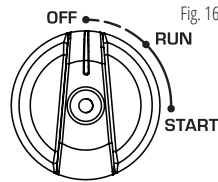


Fig. 16

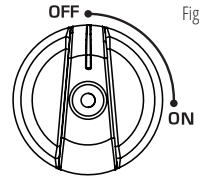


Fig. 17



FUNCTIONAL DESCRIPTION OF INVERTER GENERATORS

⚠ WARNING! It is strictly prohibited to use dry-contact control, an external ATS system, or the remote-start function when operating the generator on LPG.

Economy mode function

Start the generator with Economy Mode OFF. Activate it only after the engine stabilizes and when the load is low (up to approx. 20% of rated power) to reduce fuel consumption and noise. Switch Economy Mode OFF when connecting high starting current devices, increasing load, during parallel operation, or when charging a battery via 12V DC to avoid overload or voltage instability.

Parallel function

You can increase the total output power of the generators by connecting the two inverter generators together with special cables for parallel connection which are in a set. Parallel connection of two generators ensures total rated output power of these generators. When the generators are connected in parallel, the power loss is 10% of the total rated power that can be obtained.

During parallel operation, the Economy Mode switch must be in the same position on both generators.

1. Connect the parallel cable to the dedicated outputs on the generator control panel. Do not use any other cables.

2. Start the engines, check that the green Working Mode indicator on each generator is on.

3. Plug the appliance into a socket. Check the latest info on a website about models, which can be connected in parallel. Connect only those models, which are recommended by producer.

4. Switch on the appliance.

If the overload indicator lights up, follow the standard generator overload procedure (reduce the load and press the RESET button on both generators).

⚠ ATTENTION – DANGER! Do not connect or disconnect parallel cables while the generator is running. If you plan to use only one generator, the parallel cables must be disconnected with the engine off.

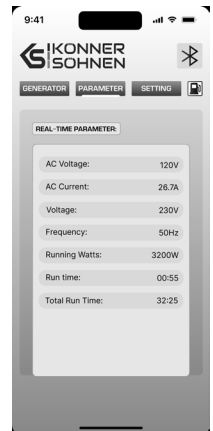
Remote Control function (Fig. 18)

The generators KS 3500iS PRO can be monitored and controlled remotely using the dedicated mobile application via Bluetooth connection. The application allows you to start and stop the generator remotely and monitor its operating status in real time.

Through the application you can view key operating parameters such as AC voltage, AC current, frequency, running power (watts), current running time, and total operating hours. The app also displays generator fuel level status, and provides notifications about warnings or error conditions.

The mobile application **Konner Sohnen** is available for download from the Apple App Store and Google Play.

Fig. 18



Charging an external 12V battery

1. Start the engine.

2. Connect the red wire to the positive (+) terminal of the battery.

3. Connect the black wire to the negative (-) terminal of the battery.

4. Connect the wire to a 12V/8A DC socket on the control panel of the generator.

5. To start charging the battery, set Economy mode to "OFF".

6. Turn the 12 V DC fuse to the "ON" position.

⚠ IMPORTANT! The 12V socket can only be used as a backup source for recharging batteries and shall not be deemed as a full-featured battery charger.

If the DC overload protection trips, stop charging the battery because the charging current is too high. Do not charge batteries if their current consumption is more than 5-8 A (depending on the generator model).

⚠ ATTENTION – DANGER! The 12V connection on the generator is designed only as an emergency power source for 12V batteries and must not be used as a 12V power source for sensitive 12V power consumers.

This manual compliance! You can find a list of service center addresses on the website of exclusive importer: www.konner-sohnen.com

Technical maintenance works

Unit	Action	At each start	First month or 20 operating hours	Every 3 months or 50 operating hours	Every 6 months or 100 operating hours	Every year or 300 operating hours
Motor oil	Level check	✓				
	Replacement		✓	✓		
Air filter	Check /Cleaning	✓	✓	✓		
	Replacement					✓
Spark plug	Cleaning		✓	✓		
	Replacement				✓	
Fuel tank	Level check	✓				
	Cleaning					✓
Fuel filter	Check (clean out)		✓	✓		

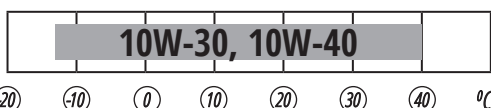
- If the generator often operates at high temperature or high load, the oil should be replaced every 25 operating hours.
- If the engine often runs in dusty or other harsh conditions, clean the air filter every 10 operating hours.
- If you missed the maintenance time, perform it as soon as possible to save the generator engine.

⚠ IMPORTANT! The manufacturer shall not be liable for any damage caused by failure to perform maintenance work.

RECOMMENDED OILS

Use oils designed for four-stroke cycle vehicle engines SAE10W-30, SAE10W-40. Motor oils with other viscosity levels, may be used only if the average air temperature in your region does not exceed the limits of the temperature range, specified in the table.

Upon oil level decrease it is necessary to add the required quantity in order to provide the correct generator operation. It is necessary to check the oil levels according to technical maintenance schedule.



To drain engine oil, perform the following actions:

1. Please drain the oil while the engine is warm. This provides a quick and complete oil drain.
2. Wear protective gloves to avoid getting oil on the skin.
3. Unscrew the screws located beneath the rubber triangular elements of the generator and open the cover (fig. 9A, 9B).
4. Place a drain oil holding tank under the engine.
5. Turn the drain cap, located in the engine under the oil-depth gage cap (fig. 19).
6. Wait till the oil drains.
7. Replace the drain cap and tighten it well.
8. Close the maintenance cover.

The generator is equipped with a magnetic oil dipstick. The magnetic tip helps collect small metal particles that may appear in the engine oil during operation. When checking or changing the oil, remove the dipstick and wipe it clean, as metal particles may accumulate on the magnetic tip.

To refill oil, perform the following actions:

1. Make sure that the generator is set on flat level surface.
2. Open the oil-depth gage cap on the engine.
3. By means of a funnel, pour the advanced purification engine oil to the crankcase.

⚠ NOTE! The engine oil can be pumped out using an oil suction pump instead of being drained.



AIR FILTER TECHNICAL MAINTENANCE

Air filter cleaning is to be performed each 50 hours of the generator operation (every 10 hours in unusually dusty conditions).

Cleaning the filter:

1. Open the clips on the upper cap of the air filter.
2. Remove the sponge filtering element.
3. Remove all dirt deposits inside the hollow case of the air filter.
4. Thoroughly wash the filtering element in warm soapy water.
5. Dry the sponge filter.
6. Dry filtering element is to be moistened by motor oil and excess oil is to be squeezed out.

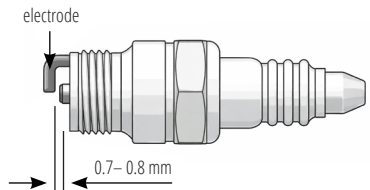


SPARK PLUGS TECHNICAL MAINTENANCE

Spark plug has to be intact, without soot deposits and to have a correct gap.

Spark plug verification (fig.20):

1. Remove the cap from the spark plug.
2. Remove the spark plug by means of a corresponding spanner.
3. Examine the spark plug. If it is shattered – it is necessary to replace it. Recommended replacement spark plugs A5RTC.
4. Measure the gap. It has to be within range 0,7–0,8 mm.
5. In case of repeated use, the spark plug has to be cleaned by means of a metal brush. After that – set the correct gap.

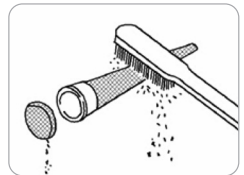


MUFFLER AND SPARK ARRESTER MAINTENANCE

The engine and muffler will get very hot after the generator has been started. Do not touch the engine or muffler with any part of your body or clothing during inspection or repair until they have cooled down.

Remove the screws and then pull the protective cover towards you. Loosen the bolts and remove the cover, screen and spark arrester of the muffler. Descale the screen and spark arrester of the muffler with a wire brush. Inspect the screen and spark arrester of the muffler. Replace them if they are damaged. Replace the spark arrester. Replace the screen and cover of the muffler. Replace the cover and tighten the screws.

⚠ IMPORTANT! Match the protrusion of the spark arrester to the hole in the pipe muffler.



FUEL FILTER

⚠ ATTENTION – DANGER! Do not use gasoline near an open flame and do not smoke while handling it.

1. Remove the fuel tank cap and fuel filter.
2. Clean the filter with gasoline.
3. Wipe the filter and replace it.
4. Replace the fuel tank cap. Make sure that the fuel tank cap is tight.

⚠ IMPORTANT! The generator must be stored and transported with a closed vent at all times (fig. 15)!

Storage room has to be dry and free from dust deposits. Storage room also has to be locked away from children and animals. It is recommended to store and use the generator at temperature of -20°C to +40°C. Avoid direct sunlight, rain on the generator. When using and storing hybrid generator, gas tank should be kept indoors at temperatures below +10°C. If the temperature is lower, gas will evaporate.

⚠ IMPORTANT! Warning! Generator is to remain ready for operation at all times. Therefore in case of device malfunctions, they are to be repaired before dismantling the generator for storage.

⚠ IMPORTANT! Before long-term storage of the generator during the engine work close the fuel valve and let the engine to elaborate gasoline from carburetor. Wait until engine stops itself.

■ Long-term storage

- Generator and engine external parts (especially the cooling radiators) are to be thoroughly cleaned.
- Carburetor float chamber screw has to be removed and the chamber – drained.
- Remove the spark plug.
- Oil drain screw is to be removed and the oil – drained.
- Pour one teaspoon of motor oil to the cylinder (5-10 ml). After that – pull the starter cord for a few times, to let the oil equally distribute on the cylinder walls.
- Install the spark plug.
- Pull the starter handle until you feel the resistance. to let the piston relocate to the upper pressure tact point.
- Smoothly release the starter handle.
- Remove the battery terminals. Grease the battery terminals and connecting terminals with grease to protect against oxidation (if model equipped with fuel filter).

■ Generator transportation

⚠ IMPORTANT! We recommend filling the fuel tank only 70% to avoid fuel spillage during generator operation and transportation .

For easy generator transportation use packaging, which generator was sold in. Secure the box with the generator so that it does not tip over during transportation. Before moving the generator drain the fuel and disconnect the terminals of the battery. Keep the generator upright. Never place the generator on its side or upside down!

To move the generator from one place to another lift it by holding the handles. Be careful - the generator is heavy (over 90 kg). At least two men are needed to move the generator. Be careful, do not expose your feet under the frame of the generator.



RECYCLING INFORMATION

■ WEEE Directive Compliance (2012/19/EU)

This product is subject to the European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE). The inverter generator must not be disposed of together with household waste. At the end of its service life, the product must be taken to an authorized collection point for electrical and electronic equipment for proper treatment, recovery, and recycling. The generator housing is made of plastic and should be recycled in accordance with local regulations. The packaging materials, including the cardboard box, are recyclable and should be disposed of through appropriate recycling systems.

■ Battery safety

- Used batteries must be disposed of in accordance with local environmental regulations.
- Do not dispose of batteries in fire or with household waste.
- Improper handling of batteries may cause leakage, fire, or explosion.
- Always replace batteries with the same type and specification recommended by the manufacturer.
- Avoid short-circuiting battery terminals.



POSSIBLE FAILURES AND SOLUTIONS

Typical failures	Possible reason	Solution
Engine does not starting	Engine starting swinch set to OFF position.	Set the engine starting switch to ON.
	Fuel valve set to off position.	Turn the valve to ON position.
	Air flap is opened.	Shut the air choke lever.
	No fuel.	Add fuel.
	Low-quality or dirty fuel is in engine.	Change the fuel.
	Sparking plug smoked or corrupted distance between contacts is not nominal.	Clean or replace the plug; Set proper distance between contacts.
Low engine power / heavy starting	Dirt in fuel tank.	Clean the fuel tank.
	Dirt in the air filter.	Clean the air filter.
	Water in a fuel tank/ carburetor; carburetor is jammed.	Empty the fuel tank, carburetor.
	Distance between contacts of a sparking plug is not nominal.	Set proper distance between contacts.
Engine overheated	Cooling fins are dirty.	Clean the cooling fins.
	Air filter is dirty.	Clean the air filter.
No voltage while working engine	Circuit breaker is active.	Turn on the cricuit breaker.
	Connected cables are corrupted.	Check the cables; if using extension cord, change it.
	Plugged device failure.	Try to connect other devices.
Connected devices are not working while generator is running	Generator is overloaded.	Unplug some devices to reduce load.
	Short circuit ocured in one of the devices connected.	Unplug that device to restore the stability of a system.
	Air filter is dirty.	Clean the air filter.
	Repetitions of an engine are lower than nominal.	Contact the service center.



WARRANTY SERVICE TERMS

The international manufacturer warranty is 2 year. The warranty period starts from the date of purchase. Within the warranty period, if the product fails because of defects in the production process, it will be exchanged on the same product or repaired.

The warranty card should be kept throughout the warranty period. In case of warranty card loss, a second one will not be provided. The customer must provide the warranty card and buyer`s check during request for repair or exchange. Otherwise, the warranty service will not be provided.

Provide clean product to the service center. Parts, that must be replaced, are the property of the service center.

CONTACTS

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