# USER MANUAL

EN

**Please read this manual carefully before use!**

K&S BASIC
SIMPLE ENERGY

## Inverter generator

KSB 32i S



# EC Declaration of Conformity

**Nr. 267**

| | |
|---|---|
| **Manufacturer:** | DIMAX INTERNATIONAL GmbH |
| **Address:** | Flinger Broich 203, 40235 Duesseldorf, Germany |

**We DIMAX INTERNATIONAL GmbH, hereby declare under our sole responsibility that specified below products is in conformity with the relevant Union harmonisation legislation.**

| | |
|---|---|
| **Product:** | Inverter generator "K&S BASIC" |
| **Type / Model:** | KSB 32i S |
| **Applied EC Directives:** | 2006/42/EC Machinery Directive<br>2014/30/EC Electromagnetic compatibility Directive (EMC)<br>2000/14/EC Noise Directive (amended in 2005/88/EC)<br>(EU) 2016/1628 Non-Road mobile machinery emissions |
| **Applied Standards:** | EN ISO 8528-13:2016<br>EN 55012:2007/A1:2009<br>EN IEC 61000-6-1:2019 |

Gasoline engine KSB 130i corresponds to European Emission Standard Stage V.
This is confirmed by EU TYPE-APPROVAL CERTIFICATE granted by NSAI certification. Technical service responsible for carrying out the test - CETOC Technical Service s.r.l. Date of issue 27/08/2025

**2000/14/EC_2005/88/EC Annex VI**
For model KSB 32i S Noise Lwa guaranteed Lwa= 96 dB (A)

| | |
|---|---|
| **Issued date:** | 2026-02-10 |
| **Place of issue:** | Duesseldorf |
| **Director:** | Fomin P. |

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CE

## 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.

## INTRODUCTION

Thank you for choosing for **K&S Basic®** 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 go to the support section and download the manual by scanning the QR code or on thewebsite of the official importer of **K&S Basic®** at **www.konner-sohnen.com**

*Please read this manual carefully 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 that you are free to use in case of any problems can be found at the end of this manual. All information in this manual is correct to the best of our knowledge and belief at the date of its 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 1

Do not use the generator in rooms with poor ventilation 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 1.1

 **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.

 **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.**

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

## PRECAUTIONS WHEN WORKING WITH GASOLINE GENERATOR 1.2

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:

- $CO_2$ (carbon dioxide) extinguishers
- Foam extinguishers (AFFF type)

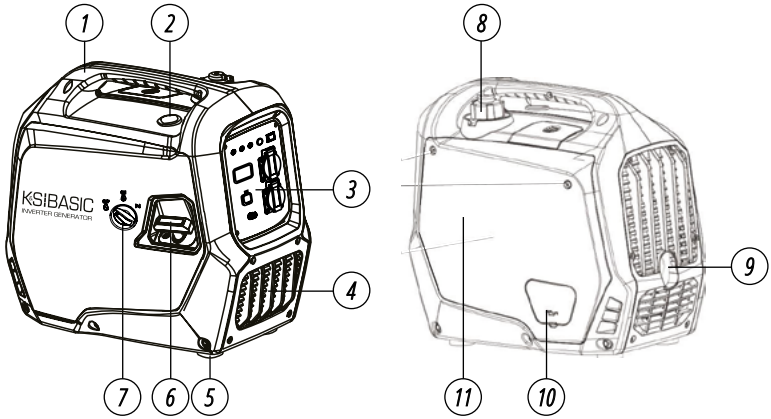
Do not use water-based extinguishers on fuel or electrical fires.

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.

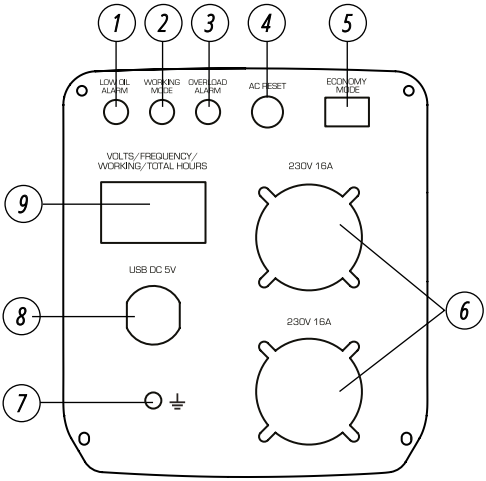
**ATTENTION – DANGER!** **Always start and use the generator set in a well-ventilated area. It is prohibited to use the generator in an unprepared room (without calculated supply ventilation or a properly designed exhaust gas removal system).**

## MAIN OVERVIEW 2




1. Transport handle
2. Spark plug service cover
3. Control panel
4. Ventilation grill
5. Antivibration supports
6. Manual starter
7. Multifunctional engine switch
8. Fuel tank cap air vent
9. Muffler
10. Service cover (for motor oil change)
11. Air filter service cover

1. Oil level indicator
2. Working mode indicator
3. Overload indicator
4. RESET button
5. Economy Mode switch
6. AC outlets Schuko 230V
7. Earthing bolt
8. USB-Outputs 2A~5V
9. LED-display (voltage, frequency, working hours)




## ACCESSORIES

- Portable power plug 230V (16A) – 2 pcs.
- Spark plug wrench
- Screwdriver
- Oil funnel

## SPECIFICATIONS 3

| Model | KSB 32i S |
|---|---|
| Voltage | 230 V |
| Max power | 3.2 kW |
| Nominal power | 3.0 kW |
| Frequency | 50 Hz |
| Current (max.) | 13.91 A |
| Outlets | 2×Schuko 230V 16A |
| Engine start | manual |
| Fuel tank volume | 5.5 l |
| LED display | voltage, frequency, working hours |
| Noise level Lwa | 96 dB |
| Engine model | KSB 170i |
| Engine cylinder volume | 149 $cm^3$ |
| Engine type | gasoline 4 stroke cycle engine |
| Engine power | 6.0 hp |
| Maximum ambient temperature | 40°C |
| Crankcase volume | 0.6 l |
| Power factor | cos φ 1 (230V) |
| Gross dimensions (L×W×H) | 545×335×510 mm |
| Net weight | 22 kg |
| Protection class | IP23M |
| **Maximum permissible deviation from the rated voltage: ±5%** | |

To ensure reliability and increase the engine service life, peak powers may be slightly limited by circuit breakers.

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.

## TERMS OF USE OF INVERTER GENERATOR 4

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 supply 230V 50Hz, and it is forbidden to use such a generator as a replacement for the public power grid for feed-in devices (on-grid inverters, hybrid inverters, microinverters, AC battery storage systems, etc.). Feed-in devices can misinterpret the 230V 50Hz voltage from an inverter generator as the grid and 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.**

## WORKING WITH THE DEVICE 5

### OIL LEVEL INDICATOR (RED)

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.

### RUN/OVERLOAD INDICATOR

 **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.**

Once the generator is working in the normal mode, output voltage light is green. In case of overload, indicator lights red. After 2 minutes working in overload mode, protection device switches on and turns off the power generation to protect the connected electrical equipment and generator. In the event of a short circuit, protection device immediately shuts off electricity. In both cases, indicator is blinking red, but the engine does not stop.

Restart the engine to make the generator produce electricity again.

RESET BUTTON: The RESET button has a built-in overload indicator. When approaching the overload condition, the indicator starts flashing. 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.
2. Reduce the total power of the connected devices until the nominal power of the generator is reached.
3. Press the RESET button once to restore socket voltage. After that the WORKING MODE indicator will flash 3 times and the power supply will be restored.

### FUEL TANK CAP AIR VENT

The fuel cap is equipped with a vent for air supply to the fuel tank. When the engine is running, the vent must be in the "ON" position (OPEN). This will allow fuel to enter the carburetor for engine operation. When the generator is not in use, close the vent to the "OFF" position.

### 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.**

## CHECK BEFORE GETTING STARTED 6

### 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. Open the air intake vent on the fuel cap .

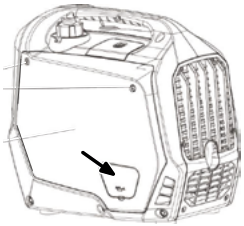
**Recommended fuel:** unleaded gasoline with an octane rating of 90–95 containing no more than 10% ethanol.

**Fuel tank volume:** 5.5 l.

**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.**

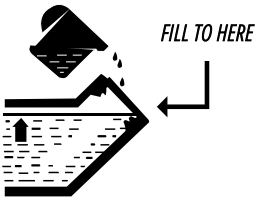
### CHECK THE OIL LEVEL



Generstor is transported without the motor oil. Please don't start the engine without filling the sufficient amount of motor oil.

1. Open the service cover (See fig).
2. Unscrew the oil dipstick 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:** 0.6 l.

## GETTING STARTED 7

**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!**

**IMPORTANT!**

**Do not change the controller settings in terms of the amount of fuel or speed governor (this adjustment was made at the factory). Otherwise, this may result in changes in the engine operation or its failure.**

**ATTENTION – DANGER!**

**When drawing power between the rated and maximum power levels, the generator must not run for longer than 5 seconds. This is common, for example, when starting the electric motor. The required starting power of the motor must not exceed the maximum starting power of the generator.**

**ATTENTION – DANGER!**

**Standby 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 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.

## ENGINE START

**IMPORTANT!**

**Useful tip: If the engine stalls shortly after starting or does not start at all, we recommend draining deposits from the carburetor and checking the oil level. The generator is equipped with a low oil level indicator, and the engine will stop if the engine oil level 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.**

1. Check oil level.
2. Check fuel level.
3. Open the vent on the fuel cap to the "ON" position (Fig. 1).
4. Turn the multifunctional engine switch to the «Air choke» posotion (Fig.2).

In this position:

**a.** Ignition circuit is on. **b.** Fuel valve is open. **c.** Air choke is closed.

(If the engine is warm, no need to turn to Choke position, turn immediately to "ON" position).

5. Pull the manual starter until a slight resistance is felt, then pull it toward you relatively sharply. Slowly turn the manual starter by hand, do not release it abruptly.
6. Set the multifunctional engine switch to the «ON» position (Fig. 2).
7. Wait 1-2 minutes and connect electrical appliances.

Fig. 1

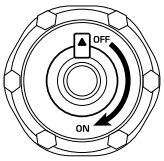
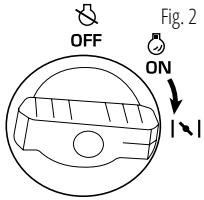



Fig. 2




**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. Do not connect any power consumers within the first 2 minutes after the generator has been started.**

# FUNCTIONAL DESCRIPTION OF INVERTER GENERATORS 8

**It is forbidden to start the generator with the ECONOMY MODE ON. Economy mode should be turned on only after starting the generator and only with a low load. Failure to comply with this requirement may result in generator failure and void warranty repair.**

## ECONOMY MODE FUNCTION

1. Start the engine.
2. Set the Economy Mode switch to "ON".
3. Plug the device into an AC outlet.
4. Make sure the AC indicator light is on.
5. Turn on the electrical device.

**IMPORTANT!** **Economy Mode should be disabled when starting the generator and should only be activated at loads up to 20% of the rated power so that the speed can be kept lower at light loads to save fuel.**

The voltage across the inverter module's capacitors is kept lower in Economy Mode, which saves fuel at low loads. However, connecting more powerful power consumers can lead to overload and voltage distortion until the engine reaches the required speed. Turn off Economy Mode if you want to connect more powerful power consumers.

**IMPORTANT!** **Ensure that the starting power of electrical appliances with motors does not exceed the maximum power of the generator.**

## STOPPING THE ENGINE 9

### DISCONNECT ALL DEVICES BEFORE STOPPING THE GENERATOR!

Do not stop the generator with the devices turned on. This may disable the generator or devices connected to it!

### 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. Set the multifunctional engine switch to the "OFF" position (Fig.3).
4. Allow the generator to cool down.
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. 4.

Fig. 3

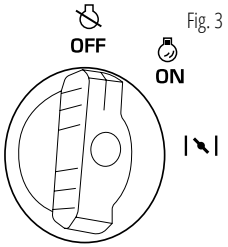
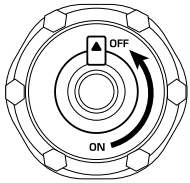



Fig. 4




## TECHNICAL MAINTENANCE WORKS 10

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

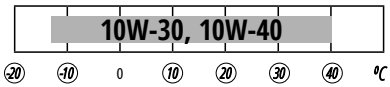
| Unit | Action | At each start | First month or 20 operating hours | Every 3 months or 50 operating hours | Every 6 months or 100 operating hours | Every year or 300 operating hours |
|---|---|---|---|---|---|---|
| **Motor oil** | Level check | ✓ | | | | |
| | Replacement | | ✓ | ✓ | | |
| **Air filter**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

- 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 11

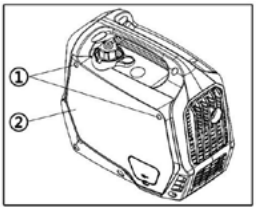
Use oils designed for four-stroke cycle vehicle engines SAE10W-30, SAE10W-40. Motor oils with other viscosity levels, may be used only if the average air temperature in your region does not exceed the limits of the temperature range, specified in the table.

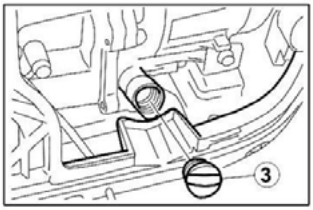


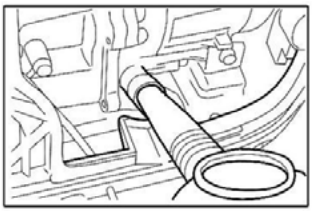

Upon oil level decrease it is necessary to add the required quantity in order to provide the correct generator operation. It is necessary to check the oil levels according to technical maintanance schedule.The detailed description of oil filling and draining can be found in the full version of the manual.

### ENGINE OIL REPLACEMENT OR ADDING

**ATTENTION – DANGER!** **Do not drain engine oil immediately after stopping the generator. The oil will be too hot. It's dangerous! Allow the engine to cool slightly, and drain the warm oil. Oil will drain faster and easier from a warm engine.**



1. Place the generator on a flat surface
2. Loosen the screws (1), remove the cover of generator (2).
3. Put the generator on a platform, and tilt the machine in the direction of oil guide groove.
4. Put the drain pan under the machine. Tilt the generator and drain all the oil.
5. Place the generator to a level position and add fresh oil. Install the oil gauge and the generator cover back, check that the bolts are tighten.

**ATTENTION – DANGER!** **Do not tilt the generator when topping up engine oil. This can cause the crankcase to overflow and damage the engine. Make sure that foreign objects do not get into the crankcase.**

## AIR FILTER TECHNICAL MAINTENANCE 12

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

### CLEANING THE FILTER (FIG.1 IN THE ANNEX):

1. Unscrew the bolts (1) and remove cover (2).
2. Open the clips on the top cover of the air filter.
3. Remove the sponge filter element.
4. Remove all dirt inside the empty air filter housing.
5. Clean the filter element thoroughly in warm soapy water.
6. Dry the sponge filter.
7. Soak a dry filter element in engine oil, then squeeze out excess oil.

## SPARK PLUGS TECHNICAL MAINTENANCE 13

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

### SPARK PLUG VERIFICATION (FIG.2 IN THE ANNEX):

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 is is shattered – it is necessary to replace it. For model KSB 32i S - A5RTC (TORCH / LD) spark plug or CR7HSA(NGK) equivalent is recommended.
4. Measure the gap. It has to be within range 0.6-0.8 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 14

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.

**See Fig.1 in the Annex:** 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 15

**IMPORTANT!** **Never use gasoline while smoking or in the immediate vicinity of an open flame.**

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.
5. Make sure that the fuel tank cap is tight.

## FUEL FILTER TECHNICAL MAINTENANCE 16

1. Unscrew the bolts (1), remove the cover (2), and drain the fuel (3).
2. Loosen the clips (4) while holding them and remove the hose (5) from the fuel tank.
3. Remove the fuel filter (6).
4. Flush the filter with fresh gasoline.
5. Allow the filter to dry out and put it back in the fuel tank.
6. Mount the hose and clamp and then open the fuel valve to check for leaks.
7. Replace the cover and tighten the screws.

## STORAGE 17

**IMPORTANT!** **The generator must be stored and transported with a closed vent at all times!**

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.

**IMPORTANT!** **Warning! Generator is to remain ready for operation at all times. Therefore in case of device malfunctions, they are to be repaired before dismounting 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.**

### BEFORE LONG-TERM GENERATOR IDLE TIME – PERFORM THE FOLLOWING ACTIONS:

- 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.

## GENERATOR TRANSPORTATION 18

**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.

## GENERATOR DISPOSAL 19

### 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.

## POSSIBLE FAILURES AND SOLUTIONS 20

| 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 occured 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 |

The international manufacturer warranty is 1 year. The warranty period starts from the date of purchase. In cases when warranty period is longer than 1 year according to local legislation please contact your local dealer. The Seller which sells the product is responsible for granting the warranty. Please contact the Seller for warranty. 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.

All faults caused by the manufacturer during the warranty period will be eliminated free of charge. Warranty repair is carried out only if you have a fully completed warranty card, the Buyer's signature of acceptance of the warranty terms, as well as a document supporting the purchase (cash receipt, sales slip or invoice). In the absence thereof, as well as in the event of errors or corrections not authenticated by the seller's seal or illegible inscriptions in the warranty card or tear-off coupon, no warranty repair is carried out, no objections to quality are accepted and the warranty card is withdrawn by the service center as invalid. The device is accepted for repair clean and full.

Fig. 1

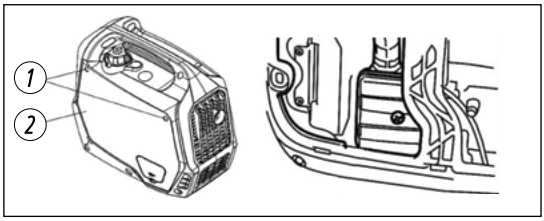



Fig. 2

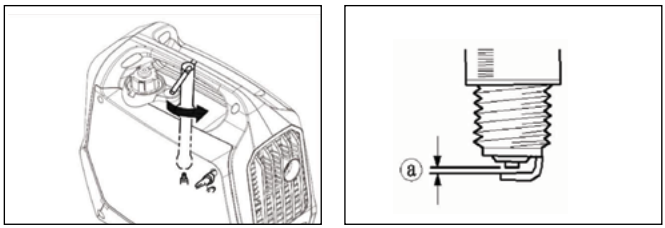



Fig. 3

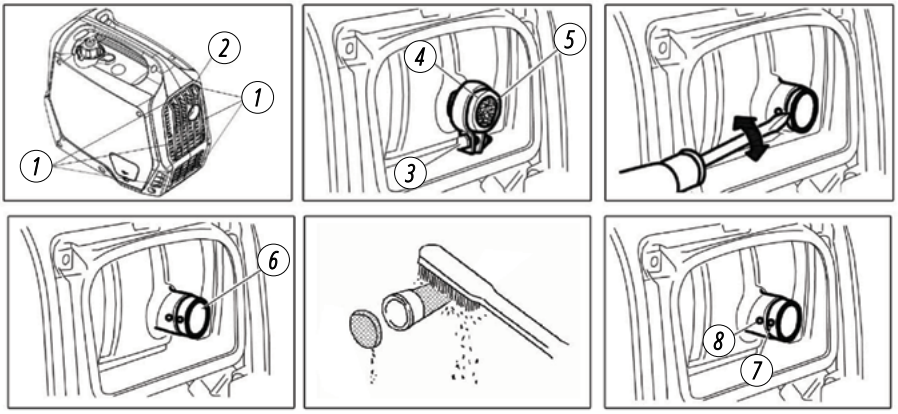
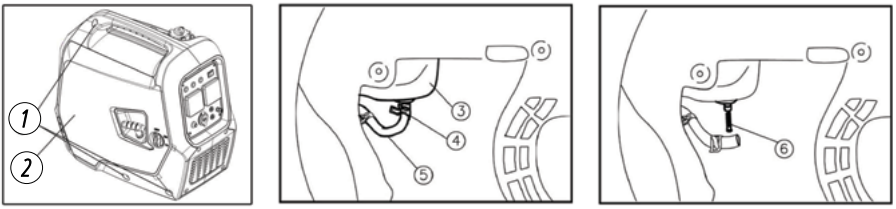



Fig. 4



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