TRADITIONELLE DEUTSCHE QUALITÄT

K&S Könner & Söhnen

Please, read this manual carefully before use!

Owner's Manual

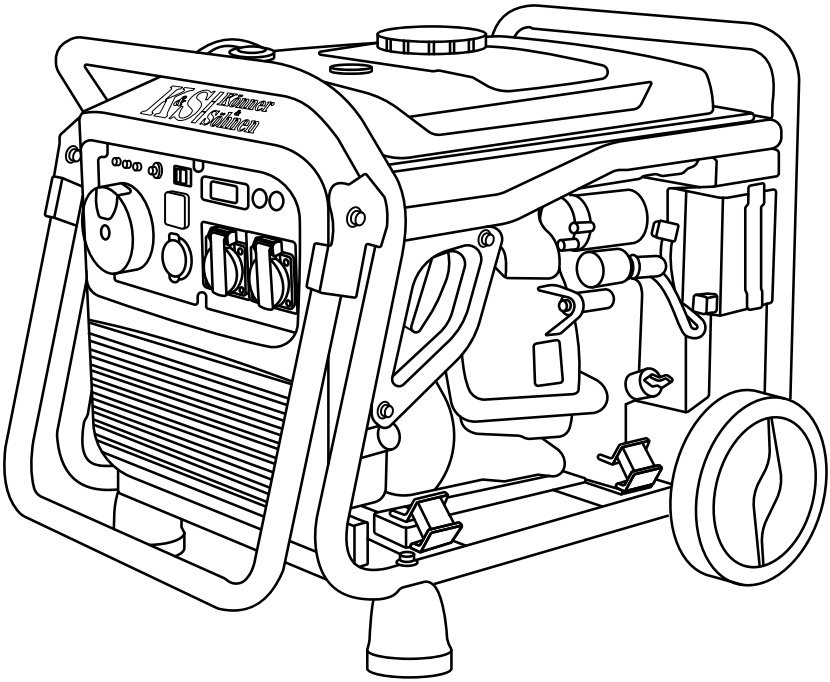
EN

Inverter Generator

KS 4100iE
KS 8100iE

Inverter Generator in Soundproof Housing

KS 2000i S
KS 4000iE S



INTRODUCTION

Thank you for your purchase of **Könner & Söhnen** products. This manual contains a brief description of safety, use and debugging. More information can be found on the official manufacturer's website in the support section: **ks-power.de/betriebsanleitungen**.

You can also go to the support section and download the full version of the manual by scanning the QR code, or on the website of the official importer of Könner & Söhnen products: **www.ks-power.de/en**.

We care about the environment, therefore, we consider it expedient to save paper and leave in print a short description of the most important sections.

Be sure to read the full version of the manual before getting started!

Manufacturer reserves the right to make alterations into the generators, which may not be reflected in this manual. Pictures and photos of the product may vary from its actual appearance. At the end of this manual, You may find contact information which you are free to use in case of any issues occurrence.

All data, specified in this operation manual is the most up to date for the moment of its publishing. The current list of service centers you can find at the website of official importer: **www.ks-power.de/en**.

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). Keep unauthorized persons, children, and animals away from work area. Wear safety shoes and gloves.

ELECTRICAL SAFETY 1.1

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

The generator produces electricity that may lead to an electric shock while neglecting compliance regulations. All connecting the generator to the network must be made by certified electrician in accordance with all electrical rules and regulations. Connect the generator to the protective ground before operation. Wires with damaged or spoiled insulation should be replaced. You should also replace worn, damaged or rusty contacts.

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.**

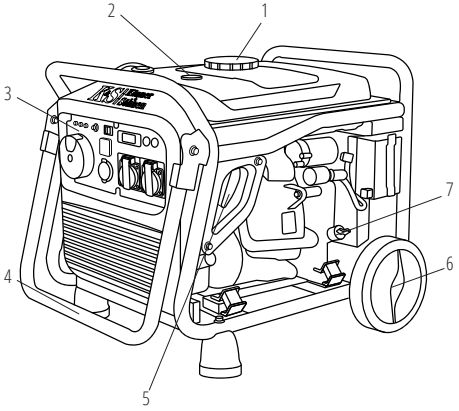
PRECAUTIONS WHEN WORKING WITH GASOLINE GENERATOR 1.2

Do not start the generator operation upon presence of electric load! Disconnect the load before you stop the engine. **Only unleaded gasoline is recommended for the generator.** It is forbidden to use kerosene or other fuel types. Before running the generator, it is necessary to define the place and means of its emergency stop. Do not refuel the running generator.

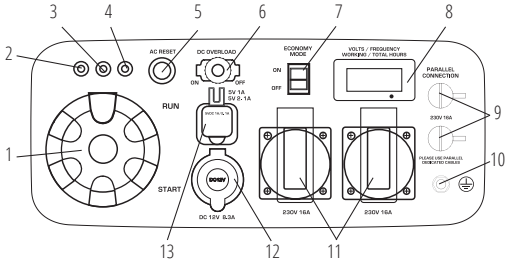
ATTENTION – DANGER! **Fuel contaminates the land and groundwater. Do not allow the leaking gasoline from the tank!**

MAIN OVERVIEW 2

MODELS KS 4100iE, KS 8100iE



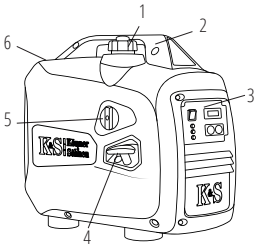
1. Fuel tank cap
2. Fuel level indicator
3. Control panel
4. Carrying handles
5. Manual starter (only for model KS 4100iE)
6. Transport wheels
7. Oil-depth gage



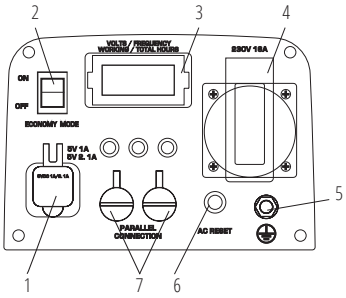
1. Multifunctional engine switch
2. Oil level indicator
3. Overload indicator
4. Voltage indicator
5. Reset button
6. 12V DC fuse
7. Economy mode switch (ECON)
8. LED display
9. Generator parallel socket
10. Ground terminal
11. 2x16A AC outlets
(for model KS 8100iE 1x16A, 1*32A outlets)
12. 12V/8.3A DC outlet
13. 2 USB-Outputs

IMPORTANT! **Manufacturer reserves the right to make changes and/or improvements in design, components set and technical attributes without notice and without incurring obligation. The pictures in this manual are schematical and may not match the parameters of original product.**

MODEL KS 2000i S

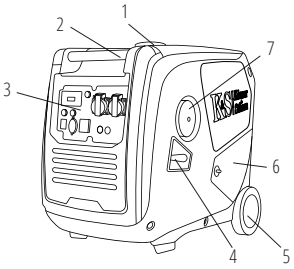


1. Fuel tank cap air vent
2. Carrying handles
3. Control panel
4. Manual starter
5. Air choke
6. Maintenance cover
(on the other side of the generator)

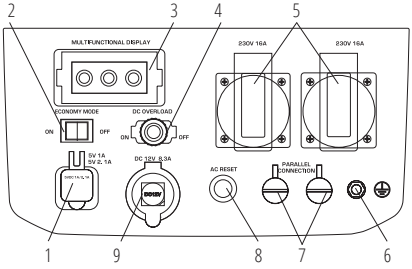


1. 2 USB-Outputs
2. Economy mode switch (ECON)
3. LED display
4. 1x16A AC outlet
5. Ground terminal
6. Reset button
7. Generator parallel socket

MODEL KS 4000iE S



1. Fuel tank cap
2. Carrying handles
3. Control panel
4. Manual starter
5. Transport wheels
6. Maintenance cover
7. Multifunctional engine switch



1. 2 USB-Outputs
2. Economy mode switch (ECON)
3. LED display with oil level indicator, overload indicator, voltage indicator
4. 12V DC fuse
5. 2x16A AC outlets
6. Ground terminal
7. Generator parallel socket
8. Reset button
9. 12V/8A DC outlet

Model	KS 4100iE	KS 8100iE	KS 2000i S	KS 4000iE S
Voltage, V	230			
Maximum power, kW	4.0	8.0	2.0	4.0
Nominal power, kW	3.6	7.2	1.8	3.5
Frequency, Hz	50			
Current, A (max.)	17.4	34.8	8.7	17.4
Outlets	2*16A	1*16A 1*32A	1*16A	2*16A
Engine start	manual/electro	electro	manual	manual/electro
Fuel tank volume, l	12.5	20	4	12.5
LED display	voltage, frequency, working hours	voltage, frequency, working hours	voltage, frequency, working hours	multifunctional*
Noise level Lpa (7m)/Lwa, dB	72/95	72/95	64/87	66/91
Output 12V, A	12V/8,3A	12V/8,3A	-	12V/8,3A
USB-Outputs	5V/1A 5V/2.1A	5V/1A 5V/2.1A	5V/1A 5V/2.1A	5V/1A 5V/2.1A
Engine model	KS 240i	KS 480i	KS 100i	KS 240i
Engine volume, cm^3	223	458	79.7	223
Engine type	gasoline powered one-cylinder, four-stroke air-cooled			
Engine power, hp	7.5	16	2.5	7.5
Generator parallel socket	+	-	+	+
Crankcase volume, l	0.6	1.1	0.4	0.6
Power factor, cos φ	1	1	1	1
Dimensions (L*W*H), mm	600*420*425	685*500*553	510*310*525	630*475*570
Lithium battery, Ah	1.6	1.6	-	1.6
Net weight, kg	38	68	18	40
Protection class	IP23M			
Nominal voltage tolerance – max. 5%				

*Multifunctional LED-display: load, fuel level, voltage, frequency, working hours; overload indicator, voltage indicator, oil level indicator.

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 in order to preserve the long service life of the generator, continuous loads of more than 80% of the nominal power are not recommended.

TERMS OF USE OF INVERTER GENERATOR 4

It is recommended to ground the generator before operating it for the first time. Before starting the device, remember that the total power of the connected power consumers should not exceed the nominal power of the generator.

 **IMPORTANT!** 

To avoid electric shock due to poor-quality electrical appliances or improper use of electricity, the generator must be earthed using a high-quality insulated conductor.

 **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 5

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.

DC FUSE

The DC protector automatically switches to "OFF" when the current of the operating electrical device is higher than the rated current. To use this equipment again, turn on the DC fuse again by pressing the "ON" button.

 **IMPORTANT!** 

If the DC fuse turns off, reduce the load of the connected electrical device. If the DC protector turns off again, stop operation and contact your nearest Könner & Söhnen service center.

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.

FUEL TANK CAP AIR VENT (FOR MODELS KS 2000i S, KS 4000iE S)

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.

GROUND TERMINAL

The ground terminal forms a ground line to prevent electric shock. If the electrical appliance is grounded, the generator must also be grounded.

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. For silent models of inverter generator, open the air intake vent on the fuel cap.

Recommended fuel: unleaded gasoline.

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! **Use only unleaded gasoline. Using leaded gasoline can cause serious damage to the inside of the engine.**

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 oil dipstick and wipe it out with a clean cloth.
2. Insert the dipstick without screwing it in.
3. Check the oil level by a mark on the oil dipstick.
4. Add oil if its level is below the mark on the oil dipstick.
5. 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 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! **In the power supply mode, the generator should operate no longer than 1 minute in the range from nominal to maximum power.**

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.

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 commissioning, 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.

IMPORTANT! **Before starting the generator, connect the ground wire to the ground terminal.**

ENGINE START

IMPORTANT! **Useful tip: If the engine stalls or does not start, turn the engine switch to the "ON" position, and then pull the manual starter. If the oil level indicator flickers for several seconds, add oil and restart the engine.**

IMPORTANT! **Each time you start the generator, be sure to check oil and fuel level**

FOR MODELS KS 4100iE, KS 8100iE, KS 4000iE S

1. Check oil level.

2. Check fuel level.

3. Open the vent on the fuel cap to the "ON" position (for model KS 4000iE S, see fig. 1).

4. Turn the Multifunctional engine switch to the "START" position.

5.1 For manual start (models KS 4100iE, KS 4000iE S), 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.

5.2 For electric start, press the red button on the multifunctional engine switch (fig. 2)

6. After starting the engine, turn the Multifunctional engine switch to the "RUN" position (fig. 2).

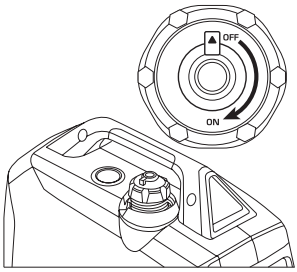


Fig. 1

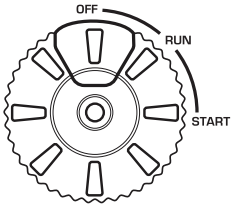


Fig. 2

FOR MODEL KS 2000i S

1. Check oil level.

2. Check fuel level.

3. Open the vent on the fuel cap to the "ON" position.

4. Turn the air choke control knob to the "START" position (Fig. 3)

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. Turn the air choke control knob to the "RUN" position.

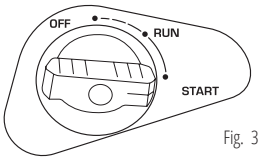


Fig. 3

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

ECON FUNCTION

1. Start the engine.
2. Set the ECON 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!

The ECON switch must be set to "OFF" to increase engine speed to nominal. When connecting multiple power consumers to the generator, be sure to first connect the one with the highest starting current, and the device with the lowest starting current should be connected last.

"ON" MODE

When the ECON switch is in the "ON" position, the control unit monitors the engine speed, reducing it commensurate with the connected load. If the engine speed is not enough to generate electricity to provide the load, the control unit will automatically increase the engine speed.

As a result, fuel consumption is optimized and noise levels are reduced.

"OFF" MODE

The ECON switch must be set back to "OFF" when using electrical devices requiring a high starting current, such as a compressor or submersible pump.

IMPORTANT!

The ECON switch must be set back to "OFF" when using electrical devices requiring a high starting current, such as a compressor or submersible pump.

PARALLEL FUNCTION

The total output power of the generators can be increased by connecting two inverter generators together using the Parallel Unit KS PU1 from Könner & Söhnen. Parallel connection of two identical generator models ensures double nominal output power of these models. When connecting generators of different capacities using the Parallel function, the output power is two times the nominal power of the generator with lesser capacity. The total output power of the generators can be increased by connecting two inverter generators together using the Parallel Unit. Parallel connection of two identical generator models ensures double nominal output power of these models. When connecting generators of different capacities using the Parallel function, the output power is two times the nominal power of the generator with lesser capacity. When the generators are connected in parallel, the power loss is 0.2 kW of the total rated power that can be obtained.

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!

IMPORTANT!

Use care when the generator is running!

You can use the generator if the voltmeter indicates a value of 230V ±10% (50 Hz).

TO STOP THE ENGINE, PROCEED AS FOLLOWS:

FOR MODELS KS 4100iE, KS 8100iE, KS 4000iE S

1. Turn off all devices.
2. Allow the generator to run idle for approx. 1-2 minutes.
3. Turn the Multifunctional engine switch to the "OFF" position (Fig. 5). м
4. Unplug the devices.
5. After the generator stops, allow it to cool down and close the vent (for model KS 4000iE S, see fig. 4).

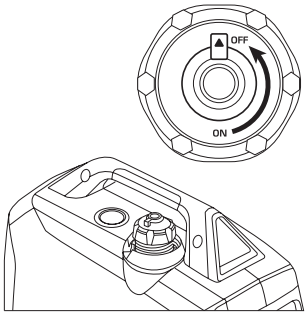


Fig. 4

FOR MODEL KS 2000i S

1. Turn off all devices.
2. Allow the generator to run idle for approx. 1-2 minutes.
3. Set the engine switch to the "OFF" position.
3. Turn the air choke control knob to the "OFF" position (Fig. 6).
4. Allow the generator to cool down.
5. Unplug the devices.
5. Close the air vent on the fuel cap (set to OFF, as shown in Fig. 4).

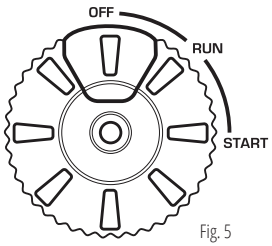


Fig. 5

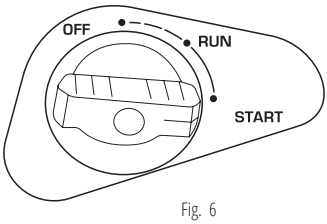


Fig. 6

Detailed description of operation in AC mode can be found in the full electronic version of the manual.

CHARGING AN EXTERNAL 12 V 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 ECON to "OFF".
6. Turn the 12 V DC fuse to the "ON" position.

IMPORTANT!

- Make sure the ECON mode is off while the battery is being charged (except model KS 24ViE S).

- Be sure to connect the charger's red wire to the plus (+) terminal of the battery and the black wire to the minus (-) terminal of the battery. Do not swap the terminals.

- Connect the charger to the battery terminals securely so that they are not disconnected due to motor vibrations or other actions.

- To charge the battery properly, follow the instructions in the battery manual.

- The DC protector turns off automatically if the current is higher than the rated current while the battery is being charged. To restore battery charging, turn on the DC fuse by pressing the "ON" button.

ATTENTION – DANGER!

Never smoke or interrupt battery connections to the generator while the battery is being charged. Sparks can cause battery gas to ignite. Battery electrolyte is poisonous and dangerous and causes severe burns, as well as contains sulfuric acid.

Avoid contact with skin, eyes and clothing.

MAINTENANCE 9

This manual compliance! You can find a list of service center addresses on the website of exclusive importer: **www.ks-power.de/en**.

TECHNICAL MAINTENANCE WORKS

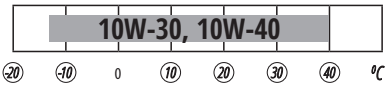
Unit	Action	At each start	First month or 20 operating hours	Every 3 months or 50 operating hours	Every 6 months or 100 operating hours	Every year or 300 operating hours
Motor oil	Level check	✓				
	Replacement		✓	✓		
Air filter	Cleaning		✓	✓		
	Replacement				✓	
Spark plug	Cleaning		✓	✓		
	Replacement				✓	
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 10

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.

AIR FILTER TECHNICAL MAINTENANCE 11

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 warmsoapy water.
5. Dry the sponge filter.
6. Dry filtering element is to be moistened by machine oil and excess oil is to be squeezed out.

SPARK PLUGS TECHNICAL MAINTENANCE 12

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

SPARK PLUG VERIFICATION:

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. Recommended replacement spark plugs – F7TC.
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.

DAMPER AND FLAME ARRESTER MAINTENANCE 13

The engine and damper will get very hot after the generator has been started. Do not touch the engine or damper 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 flame arrester of the damper. Descale the screen and flame arrester of the damper with a wire brush.Inspect the screen and flame arrester of the damper. Replace them if they are damaged. Replace the flame arrester. Replace the screen and cover of the damper. Replace the cover and tighten the screws.

IMPORTANT! **Match the protrusion of the flame arrester to the hole in the pipe damper.**

FUEL FILTER 14

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.

Make sure that the fuel tank cap is tight.

BATTERY USE 15

The generator battery is not subject to service. 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.

STORAGE 15

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. 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. Information on long-term storage and transportation can be found in the full version of the manual.

Potential faults and troubleshooting methods, as well as average device capacities can be found in the full version of the manual.

BATTERY AND GENERATOR DISPOSAL 17

To prevent environment damage generator and battery should be separated from ordinary waste. Please recycle them in the safest way, passing it to special place for disposal.

WARRANTY SERVICE TERMS 18

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.

WARRANTY DOES NOT APPLY:

- If the user has failed to comply with the instructions in this manual.
- If the product features damaged or missing identification stickers or labels, serial numbers, etc.
- If product malfunction was due to improper transportation, storage and maintenance.
- In case of mechanical damages (cracks, chips, impact and fall marks, deformation of housing, power cord, plug or any other components), including those resulting from the freezing of water (ice formation), provided there are foreign objects inside the unit.
- If the product has been improperly installed and connected to the mains supply or misused.
- If the claimed malfunction cannot be diagnosed or demonstrated.
- If proper operation of the product can be restored following cleaning from dust and dirt, appropriate adjustment, maintenance, oil change, etc.
- If the product is used for business related purposes.
- If faults are detected, which have been caused by product overload. Signs of overload are molten or discolored parts as a result of high temperatures, damaged cylinder or piston surfaces, degraded piston rings or connecting rod bushes.
- The warranty does not cover the failure of the product automatic voltage regulator due to careless handling or mishandling.
- If faults are detected, which have been caused by instability of the user's power grid.
- If there are faults caused by contamination or fouling such as contamination of the fuel, oil or cooling system.

- If electrical cables or plugs show signs of mechanical or thermal damage.
- In the event of foreign liquids and objects, metal chips, etc. inside the product.
- If the malfunction is caused by the use of non-original spare parts and materials, oils, etc.
- If there are two or more faulty units that are not interconnected.
- If the damage was caused by natural factors such as dirt, dust, humidity, high or low temperature, natural disasters.
- To quick-wear parts and components (spark plugs, nozzles, pulleys, filter and safety elements, batteries, removable devices, belts, rubber seals, clutch springs, axles, manual starters, oils, gear).
- To preventive maintenance (cleaning, greasing, washing), installation and adjustment.
- If the product was tampered with, independently repaired or modified.
- In case of malfunctions resulting from normal wear and tear as a result of long-term use (end of life).
- If product operation was not stopped and continued after detecting a malfunction.
- Batteries supplied with equipment are covered by a warranty of three months.

EC Declaration of Conformity

Nr. 075

The following products have been tested by us with the listed standards and found in compliance with the European Community Machinery Directive 2006/42/EC, Electromagnetic compatibility Directive (EMC) 2014/30/EC, Noise Directive 2000/14/EC.

Manufacturer: DIMAX INTERNATIONAL GmbH
Address: Hauptstr. 134, 51143 Cologne, Germany

Product: Inverter generators "Könner & Söhnen"

Type / Model: KS 4100iE, KS 8100iE, KS 2000i S, KS 4000iE S.

The statement is based on a single evaluation of above mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. logo. The manufacturer should ensure that all product in series production are in conformity with the product sample detalied in this report. The applicant should hold the whole technical report at disposal of the competent all the right.

Applied EC Directives:
2006/42/EC Machinery Directive
2014/30/EC Electromagnetic compatibility Directive (EMC)
2000/14/EC Noise Directive (amended in 2005/88/EC)
(EU) 2016/1628 Non-Road mobile machinery emissions
(EU)2017/654 amended by (EU) 2018/989
(EU)2017/655 amended by (EU) 2018/987
(EU)2017/656 amended by (EU) 2018/988

Applied Standards:
EN ISO 8528-13:2016
EN 55012:2007+A1
EN 61000-6-1:2007
00/14/EC
55/88/EC

Gasoline engines KS 240i, KS 480i, KS 100i, KS 240i, correspond to European Emission Standard Euro V. This is confirmed by EU TYPE-APPROVAL CERTIFICATE issued by department of transport of Luxembourg. Technical service responsible for carrying out the test -TÜV Rheinland Luxemburg GmbH.
Date of issue 30/10/2018

2000/14/EC_2005/88/EC Annex VI
For Model KS 4100iE, KS 8100iE Noise measured L_{WA}= 95 dB (A),
For Model KS 2000i S Noise measured L_{WA}= 87 dB (A),
For Model KS 4000iE S Noise measured L_{WA}= 91 dB (A).

CE
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Technical expert: Homenco A.

DIMAX International GmbH
Steuer-Nr.: 103 5722 2493
USt-IdNr: DE296177274

We DIMAX INTERNATIONAL GmbH hereby declare that specified above conforms covering European Parliament and Council Directives, 2006/42/EC of 17 May 2006 Machinery Directive, Electromagnetic compatibility Directive (EMC) 2014/30/EC of 26 February 2014, Noise Directive 2000/14/EC of 8 May 2000. The CE mark above can be used under the responsibility of manufacturer. After completion of an EC declaration of Conformity and compliance with all relevant EC directives.

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