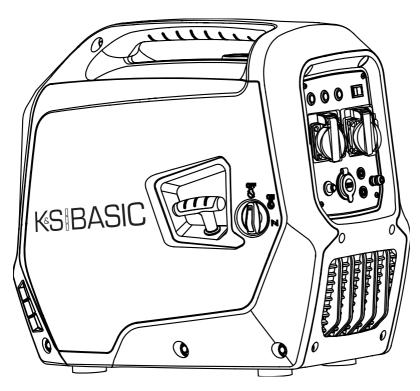




Please, read this manual carefully before use!

Kas Basic

Inverter Generator in Soundproof Housing KSB 21i S KSB 30i S KSB 40iE S



Thank you for opting for **K&S Basic®** products. This manual contains a brief description of safety, setup and use. More information can be found on the official importer's website in the support section: **konner-sohnen.com/manuals**

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**



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!



The manufacturer of **Könner & Söhnen**[®] products reserves the right to make changes that may not be reflected in this manual, namely:

- 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**



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.



When installing the generator, pay attention to the capacity of electrical appliances and their starting current, which may be several times higher than the rated current. The generator cannot run in overload conditions when starting consumers with an inrush current higher than the generator's maximum output.



As exhaust gases contain poisonous carbon dioxide (CO_2) 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.



The device generates electricity. Follow safety precautions to avoid electric shock.



The generator should be used as an IT or TN system based on the application. Earthing and additional protective measures such as insulation monitoring or protection against accidental contact (residual current device) must be provided based on the application and the system used.

The generator produces electricity that may lead to an electric shock while neglecting compliance regulations. K&S Basic generators were initially designed as an IT system with basic protection by insulation of hazardous live parts according to DIN VDE 0100-410. The generator housing is insulated from the current-carrying L and N conductors. The generator must be grounded in all cases, except for an IT system with an insulated neutral wire and bonding. A grounded IT system requires the use of an insulation monitoring device. Further details regarding the use of the generator in IT and TN systems can be found on our website or requested from our technical support. Wires with damaged or spoiled insulation should be replaced. You should also replace worn, damaged or rusty contacts.



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.



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

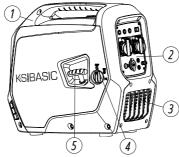
1.2

Do not start the generator operation upon presence of electric load! Disconnect the load before you stop the engine. **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.



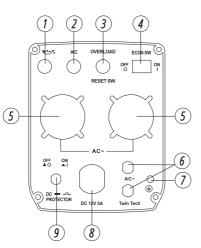
Fuel contaminates the land and groundwater. Do not allow the leaking gasoline from the tank!





- 1. Transport handle
- 2. Control panel

- 3. Ventilation grille
- 4. 3-in-1 switch
- 5. Manual starter



6. Fuel tank cap air vent

6

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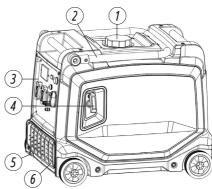
7. Spark plug service cover

9

- 8. Silencer
- 9. Service cover (for motor oil change)
- 10. Air filter service cover
 - 1. Oil level indicator
 - 2. Voltage indicator
 - 3. Overload indicator
 - 4. Economy control switch (ECONOMY MODE)
 - 5. 2x16A AC outlets
 - 6. Generator parallel socket
 - 7. Grounding
 - 8. 12V/5A DC outlet
 - 9. 12V DC fuse

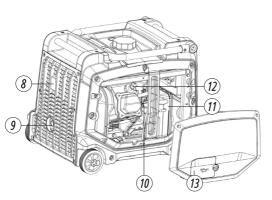
MODELS KSB 30i S, KSB 40iE S

- 1. Fuel tank cap
- 2. Transport handle (only for model KSB 40iE S)
- 3. Control panel
- 4. Manual starter
- 5. Brake
- 6. Battery (only for model KSB 40iE S)

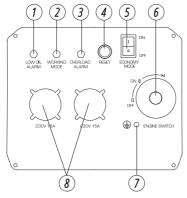


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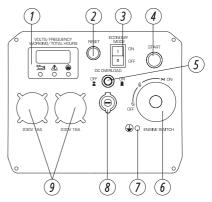
MODEL KSB 30i S CONTROL PANEL



- 1. Oil level indicator
- 2. Working mode indicator
- 3. Overload indicator
- 4. RESET button
- 5. Economy Mode switch (Economy Mode)
- 6. Multifunctional engine switch
- 7. Grounding
- 8. 2x16A AC outlets

- 8. Ventilation grille
- 9. Muffler
- 10. Carburetor
- 11. Air filter
- 12. Spark plug
- 13. Maintenance cover
- (for motor oil change)

MODEL KSB 40iE S CONTROL PANEL



1. Multifunctional LED-display with overload indicator, voltage indicator, oil level indicator

- 2. RESET button
- 3. Economy Mode switch (Economy Mode)
- 4. Engine start button
- 5. 12V DC fuse
- 6. Multifunctional engine switch
- 7. Grounding
- 8. 12V/8A DC outlet
- 9. 2x16A AC outlets



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.

SPECIFICATIONS

Model	KSB 21i S	KSB 30i S	KSB 40iE S	
Voltage, V	230	230	230	
Max Power, kW	2.0	3.3	3.8	
Nominal Power, kW	1.8	3.0	3.5	
Frequency, Hz	50	50	50	
Current, A (max.)	8.7	14.3	16.5	
Outlets	2x16A	2x16A	2x16A	
Engine start	manual	manual	manual	
Fuel tank volume, l	4	11	11	
LED display	-	-	multifunctional*	
Noise level Lpa(7m)/Lwa, dB	62/87	68/96	68/96	
Output 12V, A	12V/5A	-	12V/8A	
Engine model	KSB 100i	KSB 240i	KSB 240i	
Engine cylinder volume cm ³	79.7	223	223	
Engine type	g	gasoline 4 stroke cycle engine		
Engine power, hp	3.3	8.5	8.5	
Maximum ambient temperature	40°C	40°C	40°C	
Crankcase volume, l	0.35	0.55	0.55	
Power factor, cosφ	1	1	1	
Generator parallel socket	+	-	-	
Performance class	G2	G1	G1	
LiFePO4, Ah	-	-	0.8	
Gross dimensions (LxWxH), mm	540x325x490	605x475x520	605x475x520	
Net weight, kg	21	40	43	
Protection class	IP23M	IP23M	IP23M	
Nomin	al voltage tolerance – ma	x. 5%		

*Multifunctional LED-display: 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

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

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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!

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

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 may light up within several sEconomy Modeds after start-up or when connecting electrical devices requiring a high starting current, such as a compressor. However, this is not a malfunction.

FOR MODELS KSB 30i S, KSB 40iE S: 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.

DC FUSE (EXCEPT FOR MODEL KSB 30i S)

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.





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 K&S Basic[®] service center.

FUEL TANK CAP AIR VENT (FOR MODEL KSB 21i 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.
 konner-sohnen.com
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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 model KSB 21i S open the air intake vent on the fuel cap .

Recommended fuel: only unleaded gasoline is recommended for the generator.

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.

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: 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!



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.



In the power supply mode, the generator should operate no longer than 1 minute in the range from nominal to maximum power.



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.

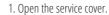




Before starting the generator, connect the ground wire to the ground terminal.

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







2. Connect the battery.

ENGINE START



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 ECONOMY MODE, add oil and restart the engine.



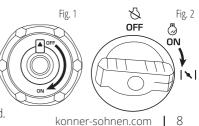




Each time you start the generator, be sure to check oil and fuel level

FOR MODEL KSB 21i S

- 1. Check oil level.
- 2. Check fuel level.
- 3. Open the vent on the fuel cap to the "ON" position (Fig. 1).
- 4. Set the 3-in-1 switch to "Air choke" (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 3-in-1 switch to "ON" (Fig. 2).

FOR MODELS KSB 30i S, KSB 40iE S

- 1. Check oil level.
- 2. Check fuel level.
- 3. Set the ECONOMY MODE switch to "OFF" (for model KSB 40iE S).
- 4. Set the 3-in-1 switch to "Air choke" (Fig. 2).
- 5. In this position:

a. Fuel system is on. **b.** Ignition circuit is on. **c.** Battery power is on **d.** Air choke closes and generator is ready to start with a cold engine. (If the engine is warm, immediately turn the 3-in-1 switch to the "ON" position).

5.1. For manual start 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 (KSB 40iE S model) - Turn the 3-in-1 switch to the «Air Choke» position, then press the ENGINE START button, Turn the 3-in-1 switch to the ON position when the engine warms up. To ensure long-term operation of the battery, do not press the ENGINE START button for more than 3 seconds. There must be an interval of at least 10 seconds between startup attempts.

6. Set the 3-in-1 switch to "ON" (Fig. 2).





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.



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



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.







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



The Economy Mode 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 FOR MODEL KSB 21i S

You can increase the total output power of the generators by connecting the two inverter generators together with special cables for parallel connection of KSB PC-1 from K&S Basic[®] (not included 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 0.2 kW 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 KSB PC-1 parallel cable to the dedicated outputs on the generator control panel. Do not use any other cables, don't combine different generator models.

2. Start the engines of the same generator models (KSB 21i S), check that the green WORKING MODE indicator on each generator is on.

3. Plug the appliance into a socket.

4. Switch on the appliance.

If the overload indicator lights up, follow the standard generator overload procedure described in section 5 (reduce the load and press the RESET button on both generators).



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.

STOPPING THE ENGINE



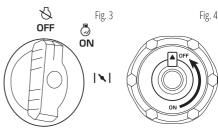
DISCONNECT ALL DEVICES BEFORE STOPPING THE GENERATOR!

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 engine switch to the "OFF" position.
- 4. Set the 3-in-1 switch to "OFF" (Fig. 3).
- 5. Allow the generator to cool down.
- 6. Unplug the devices.
- 7. After the generator stops, allow it to cool down and

close the vent (for model KSB 21i S set to OFF, as shown in Fig. 4).



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

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	S				
Motor off	Replacement		S	S		
Air filter	Check /Cleaning	S	S	S		
	Replacement				S	
for a loss	Cleaning		S	S		
Spark plug	Replacement				S	
Fuel teals	Level check	S				
Fuel tank	Cleaning					Ø
Fuel filter	Check (clean out)		S	S		
	Replacement				Ø	

TECHNICAL MAINTENANCE WORKS

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.



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

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.



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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



Air filter cleaning is to be performed each 50 hours of the generator operation (every 10 hours in unusually dusty conditions). konner-sohnen.com | 11

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

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

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

- 1. Unscrew the bolts and remove cover for models KSB 30i S, KSB 40iE S.
- 2. Remove the cap from the spark plug.
- 3. Remove the spark plug by means of a corresponding spanner.
- 4. Examine the spark plug. If is is shattered it is necessary to replace it. For model KSB 21i S A76RTC spark plug or CR7HSA(NGK) equivalent is recommended, for models KSB 30i S, KSB 40iE S BPR6ES/BP6ES(NGK), F6RTC/ F6TC(TORCH) is recommended.
- 5. Measure the gap. It has to be within range 0.6-0.7 mm.
- 6. 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

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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.

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 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!

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



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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.

- 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.

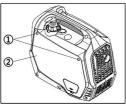
ENGINE OIL REPLACEMENT OR ADDING

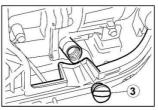


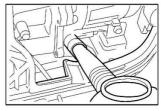


Do not drain engine oil immediately after stopping the generator. The oil will be too hot. It's dangerous! Allow the engine to cool slightly, and drain the warm oil. Oil will drain faster and easier from a warm engine.

MODEL KSB 21i S







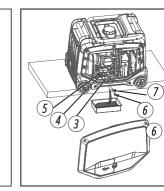
- 1. Place the generator on a flat surface
- 2. Loosen the screws (1), remove the cover of generator (2).
- 3. Put the generator on a platform, and tilt the machine in the direction of oil guide groove.
- 4. Put the drain pan under the machine. Tilt the generator and drain all the oil.
- 5. Place the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

MODELS KSB 30i S, KSB 40iE S

Place the generator on a flat surface.
 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 (3).

- 4. Remove the oil gauge.
- 5. Put the drain pan under the machine, remove the oil drain plug (6). Oil will flow out of the crankcase.
- 6. Check the oil gauge (4), seal(5), oil drain plug (6) and gasket (7). Replace them immediately if damaged.
- 7. Reinstall the oil drain plug and gasket.
- 8. Refill the oil to a proper position and tighten the oil gauge.
- 9. Clean the oil guide groove and Install the cover of generator back.





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.











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 $+40^{\circ}$ C. Avoid direct sunlight, rain on the generator.

BRAKE (FOR MODELS KSB 30i S, KSB 40iE S):

During running or storage, turn the brake to STOP position. Before moving the generator, turn the brake to ON.

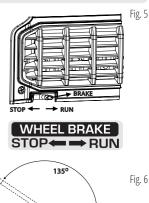
U-SHAPE HANDLE (FOR MODEL KSB 40iE S):

Before moving the generator, pull this handle to 135° position.





U-shape handle is designed for easy moving of the generator. Do not press it downward when it's opened at 135° to prevent any damage to the handle. Carry the machine at the straight handles on both ends.





BATTERY AND GENERATOR DISPOSAL

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

DOCCIDIE	FAILUDEC			
POSSIBLE	FALLUR (FS)	ANUN	MULUI	כעוטו

Typical failures	Possible reason	Solution	
	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 flap	
Engine does not starting	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	
	Circuit breaker is active	Turn on the cricuit breaker	
No voltage while working engine	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	

WARRANTY SERVICE TERMS

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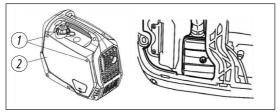
The international manufacturer warranty is 1 year. The warranty period starts from the date of purchase. In cases when warranty period is longer than 1 year according to local legislation please contact your local dealer. The Seller which sells the product is responsible for granting the warranty. Please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

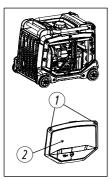
ANNEX

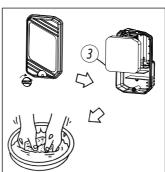


Fig. 1 MODEL KSB 21i S



MODELS KSB 30i S, KSB 40iE S





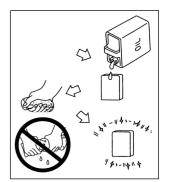
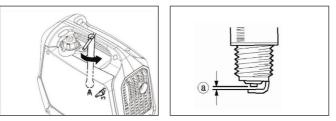
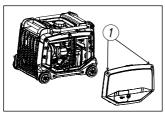


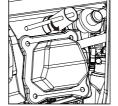
Fig. 2

MODEL KSB 21i S



MODELS KSB 30i S, KSB 40iE S





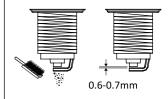
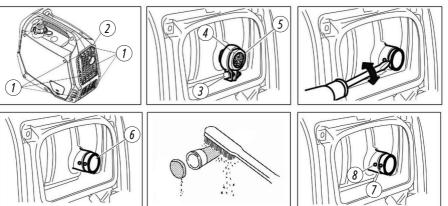


Fig. 3 MODEL KSB 21i S



MODELS KSB 30i S, KSB 40iE S

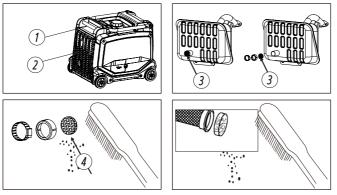
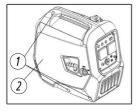
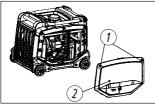


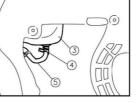
Fig. 4

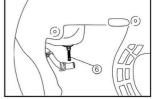
MODEL KSB 21i S

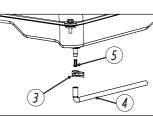


MODELS KSB 30i S, KSB 40iE S











EC Declaration of Conformity Nr. 195

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, Noise Directive 2000/14/EC.

Manufacturer:	DIMAX INTERNATIONAL GmbH
Address:	Flinger Broich 203, 40235 Duesseldorf, Germany
Product:	Inverter generators "K&S BASIC"
Type / Model:	KSB 21i S, KSB 30i S, KSB 40iE 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 detailed 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 2000/14/EC Noise Directive (EU) 2016/1628 Non-Road mobile machinery emissions

Applied Standards:

EN ISO 8528-13:2016 EN 55012:2009 EN 61000-6-1:2007

Gasoline engine KSB 220, KSB 440 corresponds to European Emission Standard STAGE V. This is confirmed by EU TYPE-APPROVAL CERTIFICATE issued by department of transport of Madrid, Spain. Technical service responsible for carrying out the test -IDIADA.

2000/14/EC_2005/88/EC Annex VI:

For Model KSB 21i S Noise measured Lwa= 85 dB (A), guaranteed Lwa= 87 dB (A). For Model KSB 30i S, KSB 40iE S Noise measured Lwa= 93 dB (A), guaranteed Lwa= 96 dB (A).

Notification body, responsible for 2006/42/EC Machinery Directive certificate issuing for models KSB 21i S is TÜV SÜD Product service GmbH Certification Body -Ridlerstrasse 65, 80339, Germany. Notification body number is 0123.

Notification body, responsible for 2006/42/EC Machinery Directive certificate issuing for models KSB 30i S, KSB 40iE S is TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg, Germany +49 (0) 9116555225. Notification body number is 0197.

Notification body, responsible for 2000/14/EC Noise Directive certificate issuing for model KSB 21i S is TÜV SÜD Industrie Service GmbH., Westendstrasse 199, 80686 München, Germany. Notification body number is 0036.

Notification body, responsible for 2000/14/EC Noise Directive certificate issuing for models KSB 30i S, KSB 40iE S is VERICERT SRL, Via L. Masotti n. 5, 48124 - in Fornace Zarattini (RA), Italy, +39 0544 501951. Notification body number is 1878. DIMAX

International GmbH Flinger Broich 203 40235 Düsseldorf

USt-ID DE296177274 koenner-soehnen.com



Issued Date: Place of issue: **Director:**

2024-05-06 Duesseldorf Fomin P. P. Fomin

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, 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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Україна:

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