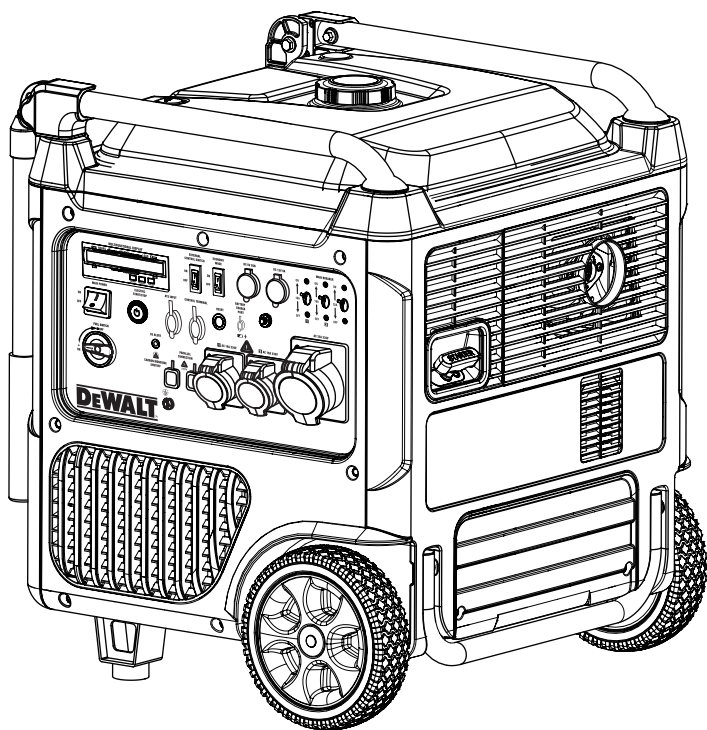


DEWALT®

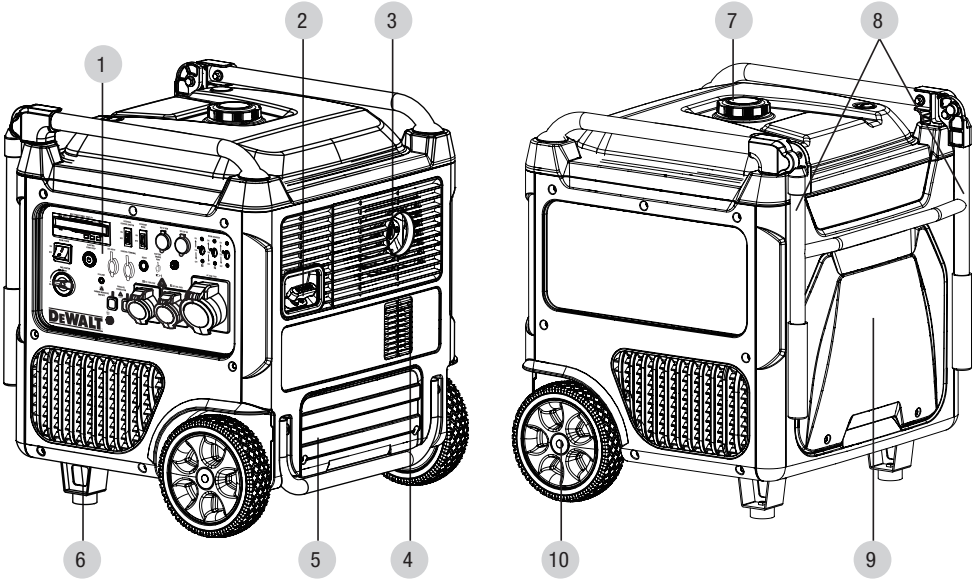


MANUAL

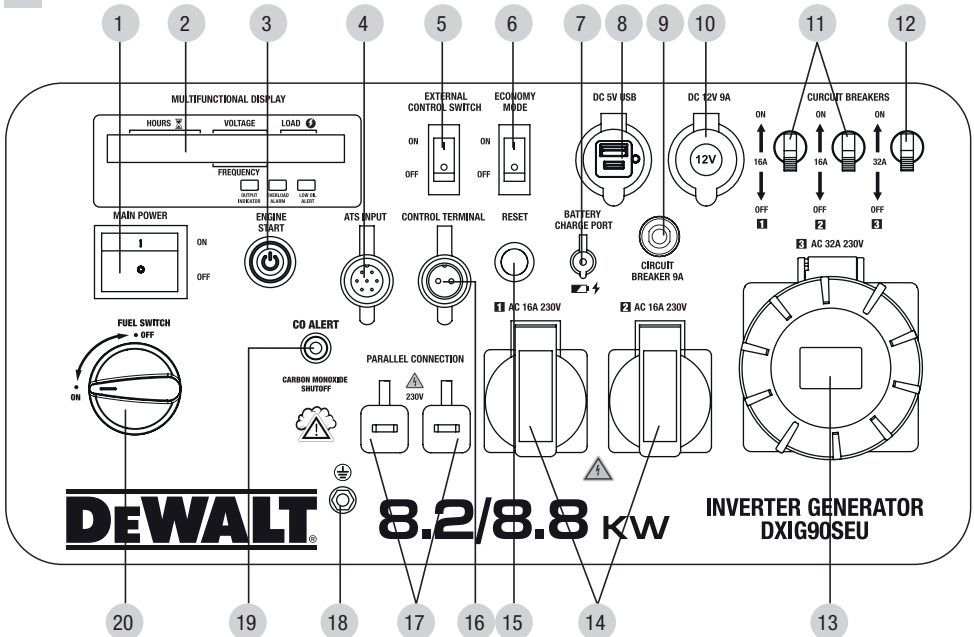
INVERTER GENERATOR

| DXIG90SEU

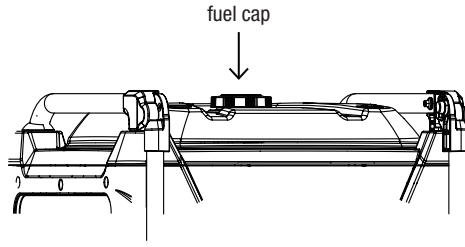
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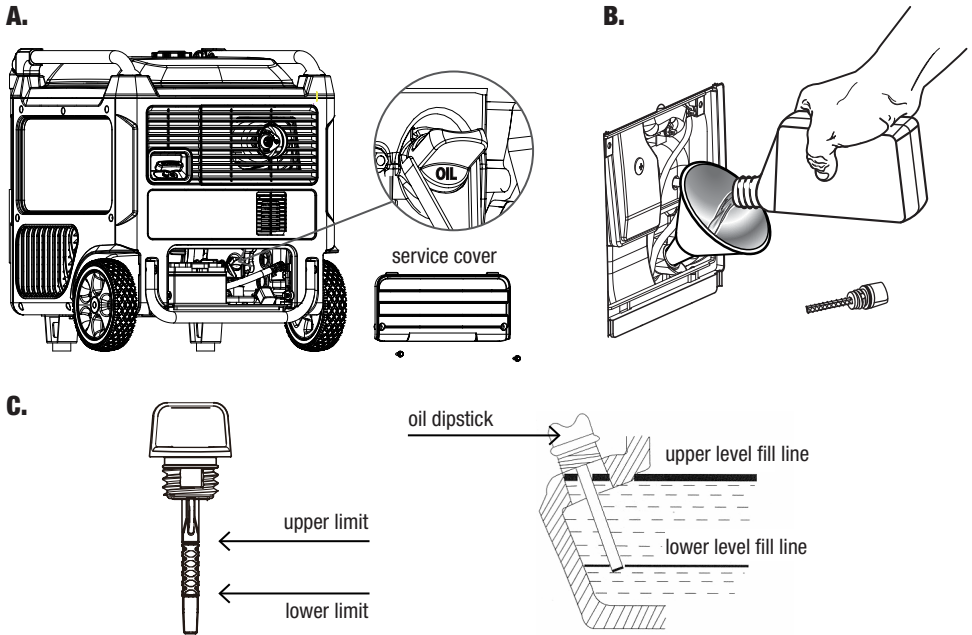
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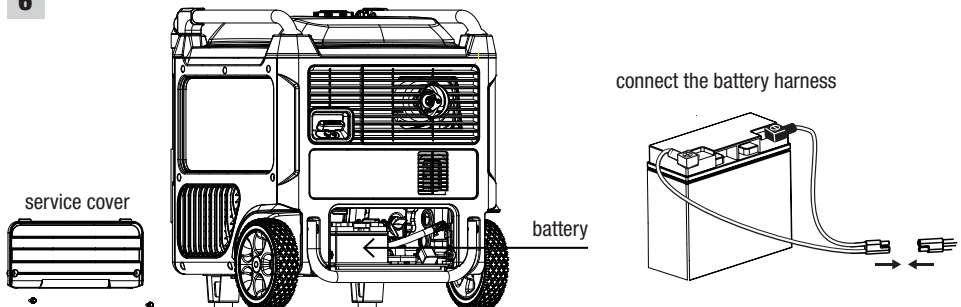
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5



6



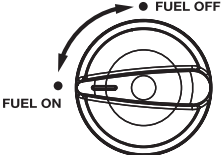
7 Start the engine

A.



ECONOMY MODE button

B.



fuel switch

C.



MAIN SWITCH button

D.



Electric Start/Stop button

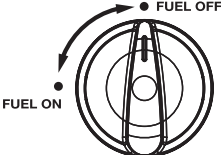
8 Stopping the engine

A.



Electric Start/Stop button

B.



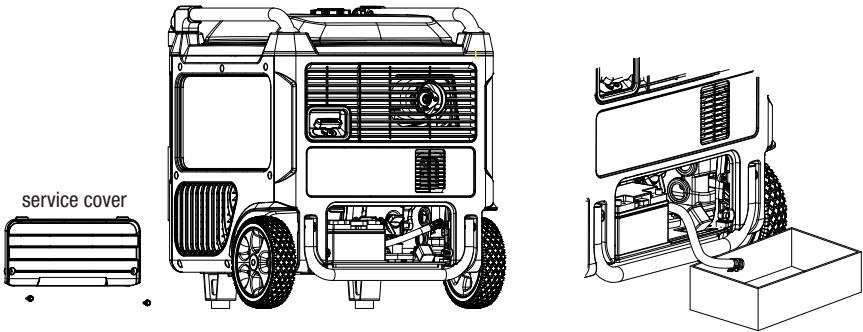
fuel switch

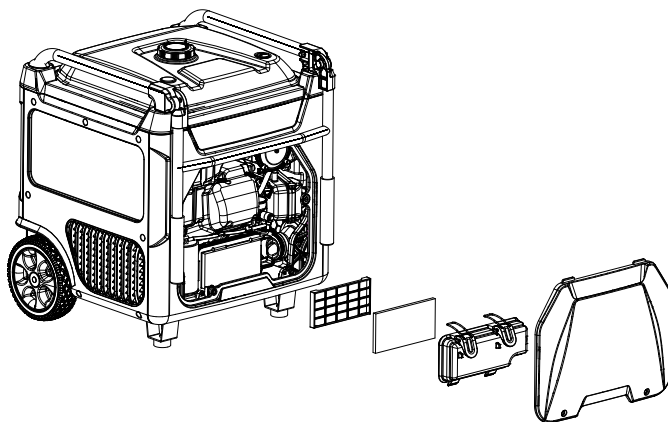
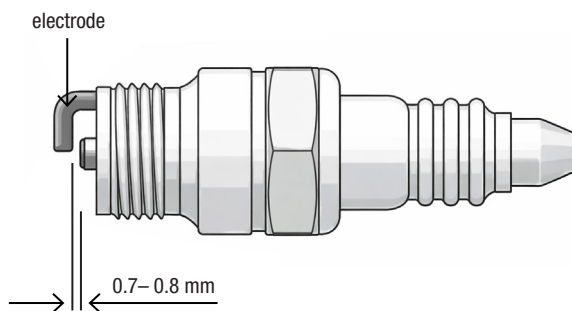
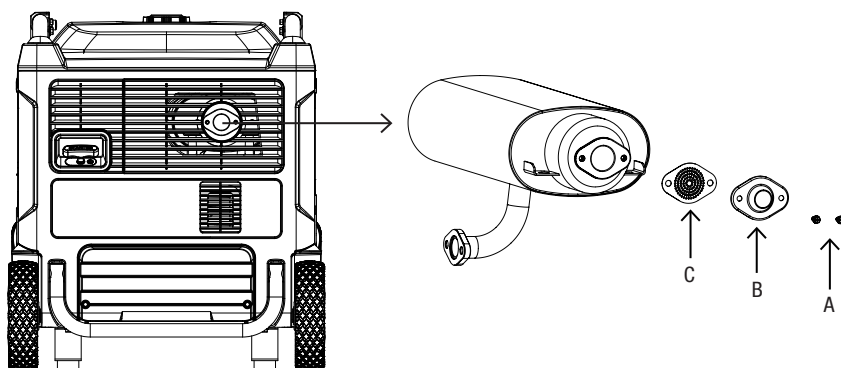
C.



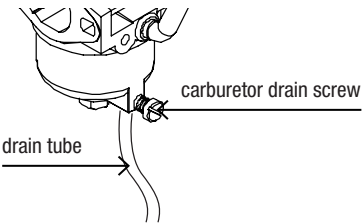
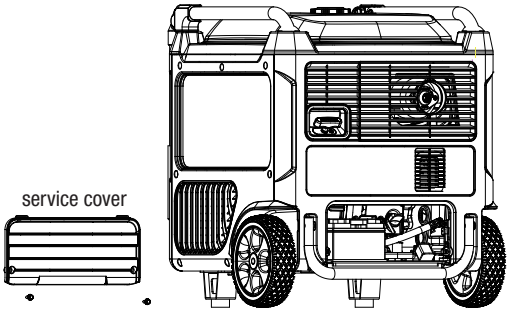
MAIN SWITCH button

9

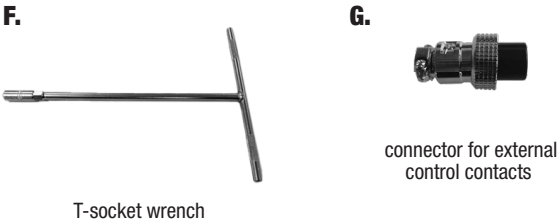
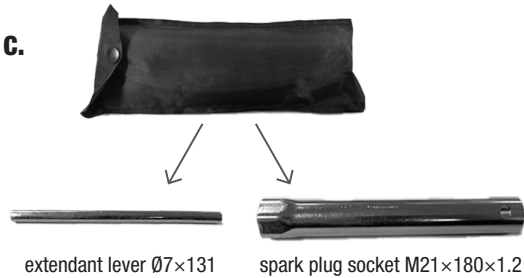
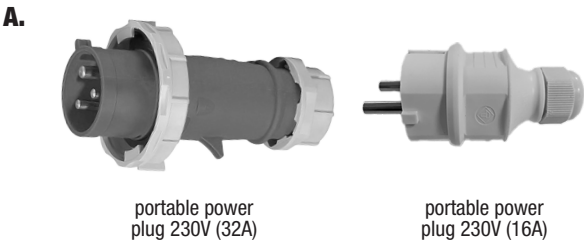


10**11****12**

13



14



INTRODUCTION

Thank you for your purchase of inverter generator in noise-absorbing housing from **DEWALT®**. 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/pages/instructions

You can also go to the support section and download the manual by scanning the QR code or on the website of the official importer of **DEWALT®** at **dewalt.konner-sohnen.com**



**PLEASE, READ THIS MANUAL
CAREFULLY BEFORE USE!**

The manufacturer of **DEWALT®** 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.

If you have any problems, contact information can be found at the end of this manual 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 **dewalt.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.

GUARANTEED TOUGH®

**FOR PRODUCT, SERVICE OR WARRANTY
INFORMATION CONTACT US BY EMAIL:
SUPPORT.DEWALT@DIMAXGROUP.COM**

TECHNICAL DATA

MODEL	DXIG90SEU
Voltage	230 V
Max power	8.8 kW
Rated power	8.2 kW
Current (max.)	38.26 A
Current (rated)	35.65 A
Frequency	50 Hz
Outlets	2×Schuko 230V 16A, 1×CEE 230V 32A
Engine start	manual/electric
Fuel tank volume	27 l
LED-display	multifunctional
Noise level, Lwa	97 dB
Output 12V	12V/9A
USB + Type C	USB QC3.0 + Type C
Engine model	SV460
Engine cylinder volume	459 cm ³
Engine type	petrol powered single-cylinder, four-stroke air-cooled
Engine power	11 hp
ATS input	+
Generator parallel outputs	+
Crankcase volume	1.2 l
Power factor	cos φ 1 (230 V)
Dimensions (L×W×H)	665×634×752 mm
Battery	10 Ah
Battery charger	input 230V/0.8A, output 13V/2A
Net weight	96 kg
Protection class	IP23M
Acceptable deviation of a current is 5%	

To ensure reliability and extend engine service life, peak power may be slightly limited by circuit breakers.

Optimal operating conditions are an ambient temperature of 17–25°C, barometric pressure of 0.1 MPa (760 mm Hg), and relative humidity of 50–60%. Under these conditions, the generator delivers maximum performance according to the stated specifications. Deviations from these conditions may affect generator performance.

Please note that in order to preserve the lifespan of the generator, continuous loads should not exceed 80% of the rated power.

EC DECLARATION OF CONFORMITY**Machinery Directive****Inverter generator
DXIG90SEU**

DEWALT declares that these products described under

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

EN ISO 8528-13:2016,
EN 55012:2007+A1:2009
ISO 8528-10: 1998
EN ISO 3744:1995

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

For more information, please contact DEWALT at the
following address or refer to the back of the manual.

The undersigned is responsible for
compilation of the technical file and makes
this declaration on behalf of DEWALT

Igor Wójcikowski

Head of service department, 8 Południowa St.,
05-830 Stara Wieś, Poland

30.01.2026

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 compo-
nent suppliers, the manufacturer confirms that these compo-
nents comply with RoHS Directive 2011/65/EU.

**SAFETY INSTRUCTIONS IN RELEVANT
SECTIONS**

⚠ ATTENTION – DANGER! When using the generator, at-
tention must be paid to the actual power consumption of
the connected electrical devices, including the power fac-
tor (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 poison-
ous carbon dioxide (CO₂) 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.

- Do not use generator in the rain, snow and high hu-
midity conditions, do not touch the generator with wet
hands. It's prohibited to leave it in direct sunlight in
summer for a long time. It is recommended to store and
use the generator under a canopy or in a well ventilated
area.
- 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 ge-
nerator. To reduce vibration during operation and to avoid
damage to the surface, where the generator is installed,
it is equipped with dampers.
- Please don't use the generator near flammable gases,
liquids or dust. When using the generator exhaust sys-
tem gets very hot. This may cause fire or explosion of
these materials.
- Be sure to follow cleanliness and good lighting in the
work area. Clutter and poor lighting may cause an in-
jury.
- Do not let the presence of unauthorized persons, chil-
dren or animals when working with generator. If neces-
sary, make sure to fencing the working area.
- Please use safety shoes and protective gloves when
working with generator.

RESIDUAL RISKS

Despite all design and safety measures applied to this ge-
nerator 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 permit-
ted 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.

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

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

ELECTRICAL SAFETY

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

⚠ IMPORTANT! 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.
- DEWALT 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. A layperson without electrical knowledge may only connect one power consumer to the generator without additional protective measures. Connection of a distribution system with more than one consumer may only be carried out by qualified electricians or persons trained in electrical engineering, observing appropriate safety precautions.
- Do not allow moisture in the generator. The water inside the device increases the risk of an electric shock.
- In the high humidity level conditions generator exploit is prohibited. Keep the generator in a dry place only.
- Avoid direct contact with grounded surfaces (pipes, radiators, etc.).
- Be careful when working with power cables. Immediately replace it in case of damage, as damaged wire increases the risk of electric shock.
- Network connection should only be carried out by a qualified technician
- Do not connect or disconnect a generator to electricity consumers, which are placed in water on a wet or damp soil.
- Do not touch parts of the generator under voltage.

- Connect the generator to those customers only which meet the electrical characteristics and the rated power of the generator.
- Store all electrical equipment dry and clean. Wires with damaged or spoiled insulation should be replaced. You should also replace worn, damaged or rusty contacts.

⚠ 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.

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

PERSONAL SAFETY

- Be careful. Do not operate the generator, if you are tired, under the influence of drugs or alcohol. Inattention may cause a serious injury.
- Avoid inadvertent start. Make sure to set the switch to Off when you turn off the generator.

⚠ ATTENTION – DANGER! Non compliance to these requirements may result in generator combustion or explosion, as well as in electric wiring ignition inside the structure.

- To avoid inhaling exhaust gas, the generator does not have to work in conditions of poor ventilation. Exhaust gas contains poisonous carbon monoxide.
- Make sure no outsider objects are on the generator when it is turned on. Using device for other purposes deprives the right for free warranty. It is not allowed to sit or stand on the generator.
- Always keep a stable position and balance when starting the generator.
- Do not overload the generator, use it only for the purpose.

PRECAUTIONS WHEN WORKING WITH PETROL GENERATOR

- Do not start the generator with an electrical load connected. Disconnect the load before stopping the engine.
- Generator installation is to be performed at minimum 1 meter safety distance from flammable objects. All explosive and flammable materials or substances are to be kept away from the generator, for its engine produces heat during operation.
- Do not refuel the running generator.
- It is forbidden to smoke during generator refuelling operations.
- **Use only unleaded petrol 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 petrol 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.

- Observe the fuel tank refilling. Do not allow overfilling.
- It is forbidden to touch the exhaust system during the generator start and in process of its running.
- It is forbidden to run the generator in cases when its exposure to rain, snow and possibility of soakage exist.
- Before running the generator, it is necessary to define the place and means of its emergency stop.

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

FIRE SAFETY

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

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

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

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

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

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

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

PACKAGE CONTENTS

1. Inverter generator
2. Operating instructions
3. Accessories



WARNING LABELS AND SYMBOLS EXPLANATION

Fig. 1A

1. Be careful when operating the device! Observe the safety instructions in this manual.
2. Operate the generator only in properly prepared rooms or outdoors. Exhaust gases contain CO₂, whose vapors are life-threatening.
3. Do not use or store the device in high humidity.
4. Do not smoke while operating the generator!
5. The device generates electricity. Observe safety precautions to avoid electric shock.
6. Read this owner's manual carefully before operating the device.
7. Do not touch the generator with wet or dirty hands.
8. Observe fire safety regulations, and do not operate the generator near open flame.
9. You can go to the support section and download the manual by scanning the QR code or on the web site of the official importer of **DEWALT®**
10. Information on the required level of oil in the crankcase.
11. Carter volume and oil use recommendations.

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

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

Fig. 1D Use unleaded fuel only (0–10% ethanol). Do not use E15 or E85.

Fig. 1E Indicates the noise level.

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

Fig. 1G Moving parts can cause severe injury! Stop engine before servicing!

MAIN OVERVIEW Fig. 2

- | | |
|---|---------------------------------|
| 1. Control panel | 6. Anti-vibration system |
| 2. Recoil starter | 7. Fuel tank cap |
| 3. Muffler | 8. Transport handles |
| 4. Maintenance cover | 9. Air filter maintenance cover |
| 5. Maintenance cover (for drain fuel, oil change and battery service) | 10. Transport wheels |

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

CONTROL PANEL Fig. 3

- | | |
|---|---|
| 1. Main power switch | 11. 16A AC circuit breakers |
| 2. Multifunctional LED-display (working hours, voltage, load, frequency, output indicator, low oil alarm, overload alarm) | 12. 32A AC circuit breaker |
| 3. Engine start button | 13. AC outlet CEE 230V 32A |
| 4. ATS input | 14. 2×AC outlets Schuko 230V |
| 5. External control switch | 15. AC Reset |
| 6. ECONOMY MODE switch | 16. Connection for external PF control contacts |
| 7. Battery charging port | 17. Generator parallel socket |
| 8. USB-Outputs 5V USB | 18. Earthing bolt |
| 9. 12V DC fuse | 19. CO ALERT |
| 10. 12V/9A DC outlet | 20. Fuel switch |

INSTRUCTIONS FOR USE INCLUDING CONSUMABLE OR MATERIAL INFORMATION, TRANSPORTATION INSTRUCTION ETC.

TERMS OF USE OF INVERTER GENERATOR

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

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

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

BEFORE STARTING**Checking the fuel level.**

1. Unscrew the fuel cap and check the fuel level in the tank. Fig. 4
2. Fill the fuel tank to the fuel filter level.
3. Tighten the fuel cap securely.

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

Fuel tank volume: 27l.

⚠ 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 petrol. If the generator is not going to be used for an extended period, always drain the petrol from the carburetor and, if necessary, from the fuel tank. Deposits in the fuel system can lead to engine malfunctions. Fuel should not be stored in the tank or canister for longer than 3 months, and in the carburetor for up to 2 weeks.

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. Open the service cover. Fig. 5A
2. Unscrew the oil dipstick and wipe it out with a clean cloth.
3. Fill the crankcase with engine oil. Fig. 5B The recommended amount of oil is indicated in the specification chart.
4. Insert the dipstick without screwing it in.
5. Pull out again and check the oil level on the dipstick mark.
6. The oil level should be at the MAX level in the upper part of the oil filler neck. Fig. 5C
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: 1.2l.

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!**

⚠ IMPORTANT! Do not change the controller settings in terms of the amount of fuel 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! Emergency generators should not run continuously (e.g. by adding fuel to the tank or connecting a large fuel tank) or longer than recommended: 4–6 hours for petrol generators (depending on load).

This material is for informational purposes only. 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 is indicated in the specification chart.
2. Check oil level with an oil dipstick. The oil level must be at the MAX level in the upper part of the oil filler neck.

The generator must be placed on a level surface.

3. Check fuel level.
4. Check if the air filter is correctly installed and clean.

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.

CONNECT THE BATTERY Fig. 6

1. Connect the battery harness.
2. Let the generator work for at least one hour running at <50% load immediately after the initial battery installation.
3. Charge the battery through the charger connection on the generator control panel, using the charger provided.

⚠ WARNING! Do not use 12V output for charging the battery.

START THE ENGINE

⚠ 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 petrol from the carburetor to prevent possible deposits from forming inside the carburetor.

⚠ IMPORTANT! Do not press Economy mode button during the start!

1. Check the oil level.
2. Check the fuel level.
3. Set all circuit breakers to "OFF".
4. Turn the fuel switch to the "ON" position. **Fig. 7B**
5. Set MAIN POWER switch to "ON" position. **Fig. 7C**
- 6.1 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.
- 6.2 For electric start, press the ENGINE START button. **Fig. 7D**
7. ECONOMY MODE button should be in "OFF" position. **Fig. 7A**
8. Wait 1-2 minutes and connect electrical appliances.
9. Set circuit breakers to "ON" one by one.

GENERATOR OPERATION

Oil level indicator (red), the low oil indicator lights up

when the oil level is too low. The ignition is deactivated and the engine stops. 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. When the generator is running normally, the AC lights up green. If there is an abnormality in the generator, the AC flashes red, the machine automatically protects and cuts off the output. Need to press the AC to reset.

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. The total power of the connected devices should be reduced to the generator's rated power. Check the devices.
3. Check if the vent grid is clogged. Remove excess dirt or debris, if any.
4. After checking, start the engine.

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

Earthing bolt. Depending on the installed network, the generator's grounding screw must be connected either to the equipotential bonding bar (IT network) or to the grounding system (TN network). **The generator is built as an IT system (isolated terra) and has no internal connection between N and PE.** Grounding of the generator is not required for mobile applications and direct power supply to electrical loads. 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.

Circuit breakers. In the event of an overloaded socket, the power supply to that socket will automatically be disconnected, but the generator will continue running. If another socket is still functioning without overload, the generator will continue supplying power to that socket. If an overload occurs on one socket, disconnect the affected device, allow the circuit breaker to cool for a few seconds, then turn the circuit breaker back on. You may then continue using the socket with an appropriate load.

DC Overload protection. 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 Overload breaker.

CO ALERT – Carbon Monoxide Sensor Status Indicator. Two Operating Modes:

1. A few seconds after the generator starts and operates normally, the carbon monoxide alarm light flashes yellow, indicating that the carbon monoxide detection system is functioning correctly and continuously monitoring the CO concentration in the area around the generator.
2. If the carbon monoxide alarm light flashes red, it means the CO concentration around the generator has exceeded the safe threshold. In this case, the generator will automatically shut down to prevent any safety hazards.

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. Set all circuit breakers to "OFF".
2. Turn off all devices.
3. Allow the generator to run idle for approx. 1-2 minutes.
4. Set the ENGINE START button to the "OFF" position. **Fig. 8A**
5. Turn the fuel switch to the "OFF" position. **Fig. 8B**
6. Set MAIN POWER switch to "OFF" position. **Fig. 8C**
7. Allow the generator to cool down.
8. Unplug the devices.

FUNCTIONAL DESCRIPTION OF INVERTER GENERATORS

Operation in Economy Mode is prohibited during the first 2-3 minutes of operation until the generator warms up. Economy Mode should be turned on only after starting the generator. Activate economy mode only at loads up to 20% of rated power. 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 button 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 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.

OPERATION OF THE GENERATOR WITH THE EXTERNAL ATS UNIT

The MAIN POWER switch must be switched on (ON position) to connect the generator's 12V onboard voltage. The ATS switch on the generator must be switched on to transfer generator control to the external ATS unit. The internal controller remains deactivated. The main switch on the ATS unit should be switched on to activate the ATS unit's control electronics.

⚠ IMPORTANT! Via the ATS connector, individual components of the generator are controlled. It is strictly forbidden to connect external control devices to the ATS connector.

OPERATION IN EXTERNAL CONTROL MODE

In EXTERNAL CONTROL mode, the generator starts when the CONTROL TERMINAL contacts are closed and stops when they are opened. This mode allows the generator to be optimally integrated into various power supply systems through external control by devices equipped with potential-free "dry contacts", significantly expanding the range of applications.

To activate the EXTERNAL CONTROL mode, set the MAIN POWER switch on the control panel to the ON position. The ATS switch must be turned off. The EXTERNAL CONTROL switch must be turned on.

⚠ IMPORTANT! The generator's control electronics consume a small amount of power as soon as the MAIN POWER is turned on. We recommend charging the generator's starter battery at least once a month if the generator is used infrequently while the External control Mode is activated.

⚠ IMPORTANT! External control must be potential-free and may only be installed by qualified personnel.

Parallel Function. The total output power of the generators can be increased by connecting two inverter generators together using the Parallel Unit from DEWALT®. 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.

CHARGING THE GENERATOR STARTER BATTERY VIA THE BATTERY CHARGING PORT

1. Ensure the generator is switched OFF.
2. Charge the battery in a well-ventilated area to prevent accumulation of explosive gases. Ambient temperature should be between +5°C and +40°C. Keep away from open flames, sparks, and heat sources. Do not expose the battery to rain or moisture during charging.
3. Connect the charger provided (**Fig. 14B**) to the battery charging port on the generator control panel.
4. When the battery is charging, the red indicator light is on. When the battery is fully charged, the indicator light turns green.
5. Disconnect the charger from the generator after charging is complete.

⚠ IMPORTANT! Inverter generators from DEWALT® are equipped with lead-acid batteries.

When the generator is running, the battery is charged au-

tomatically. When the generator is running, the battery is charged automatically. We recommend using the charger which is already provided with the generator set (Fig. 14B) or alternatively use an external charger (not provided) that is designed to charge lead acid motorcycle batteries with a charge output voltage of up to 14.4V and charging current up to 2A.

GENERATOR TRANSPORTATION

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

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

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

MAINTENANCE AND SERVICE INSTRUCTION

Works, specified in the “Technical maintenance” section, are to be regularly performed. If the generator user cannot perform regular maintenance independently, it is necessary to contact the official service center to arrange for such work.

⚠ IMPORTANT! In case of any damages that occurred due to non-performance of regular maintenance works, the manufacturer bears no responsibility for such damages.

SUCH DAMAGES INCLUDE:

- Damages occurred as a result of using non-original spare parts;
- Corrosion damage and other results of improper equipment storage;
- Damages occur as a result of maintenance performance by inexperienced and unauthorized specialists.

MANUAL COMPLIANCE

Technical maintenance, operation, and DEWALT® generator storage are to be performed according to this manual's recommendations. The manufacturer bears no responsibility for damages and losses caused by non-compliance with safety requirements and technical maintenance rules.

FIRST OF ALL, THIS APPLIES TO:

- use of lubricants, fuel, and motor oils, forbidden by the manufacturer;
- technical changes to the device;
- equipment operations against its intended use;
- indirect damages caused by operating faulty equipment.

⚠ ATTENTION - DANGER! Stop the engine before performing any maintenance work.

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

TECHNICAL MAINTENANCE WORKS

NODE	Service type	Every start	First month or after 20 hrs	Every 3 months or 50 operating hours	Every 6 month or after 100 working hrs	Every year or 300 operating hours
MOTOR OIL	Check the level	☑				
	Replace		☑	☑		
AIR FILTER	Check/ Clean	☑	☑	☑		
	Replace				☑	
SPARK PLUG	Clean		☑	☑		
	Replace				☑	
FUEL TANK	Check the fuel level	☑				
	Clean					☑
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.

ENGINE OIL REQUIREMENTS

To ensure reliable and long-lasting operation of the petrol engines, it is essential to use engine oil that strictly meets the following quality and viscosity specifications.

API QUALITY CLASS

Use engine oils designed for petrol engines that meet one of the following API (American Petroleum Institute) classifications:

- API SG type or higher.

SAE VISCOSITY CLASS

The oil viscosity should be selected strictly in accordance with the ambient temperature range in which the generator set operates.

SAE Viscosity Class	Operating Temperature Range
10W-30	from -25 °C to +30 °C
10W-40	from -25 °C to +40 °C (primary recommendation)

For most climate zones, the universally recommended and primary viscosity grade is **SAE10W-30, SAE10W-40**.

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

MIXING IS PROHIBITED:

It is **FORBIDDEN** to mix engine oils of different manufacturers, brands, quality classes, or viscosities. A complete flushing of the engine's lubrication system is required before changing oil types.

Motor oils with viscosities other than those specified in the table may be used only if the average ambient temperature in your region falls outside the indicated operating range.

If the oil level drops, it must be topped up to ensure proper generator operation. The oil level should be checked according to the maintenance schedule. When changing the oil, be sure to replace the oil filter.

TO DRAIN THE OIL: Fig. 9

1. Please drain the oil while the engine is warm. This provides a quick and complete oil drain.
2. Wear protective gloves to avoid getting oil on the skin.
3. Open the maintenance cover.
4. Place a drain oil holding tank under the engine.
5. Turn the drain cap, located in the engine under the oil-depth gage cap, by means of spanner.
6. Wait till the oil drains.
7. Put the drain cap back and tighten it well.
8. Close the maintenance cover.

OIL FILLING:

1. Make sure that the generator is set on flat level surface.
2. Open the oil filler plug on the engine. **Fig. 5A**
3. Using a funnel, add the required amount of oil into the engine. **Fig. 5B**
4. Check the oil level with a dipstick. **Fig. 5C**

Use only the recommended oils for repairs and maintenance. The use of other lubricants, consumables, and spare parts deprives you of the right to warranty service.

Generator maintenance should only be carried out by qualified personnel. For service maintenance, please contact the point of sale, or look for an up-to-date list of service centers on the importer's official website: **dewalt.konner-sohnen.com**

AIR FILTER TECHNICAL MAINTENANCE Fig. 10

Air filter cleaning is to be performed each 50 hours of the

generator operation (every 10 hours in unusually dusty conditions).

Cleaning the filter:

1. Open the clips on the upper cap of the air filter.
2. Remove the sponge filtering element.
3. Remove all dirt deposits inside the hollow case of the air filter.
4. Thoroughly wash the filtering element in warm soapy water.
5. Dry the sponge filter.
6. Lightly oil the filter with a small amount of engine oil to form a protective film, which helps trap fine dust particles.

⚠ ATTENTION – DANGER! Never run the engine without the filter. Otherwise dirt and dust lead to rapid breakage of engine parts. Failure in this case will not be repaired.

BATTERY HANDLING.

PREPARATION FOR LONG-TERM STORAGE

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

Disconnect the battery:

1. Turn off the generator and make sure all systems are de-energized.
2. First disconnect the negative (–) terminal, then the positive (+) terminal of the battery.
3. If necessary, remove the battery from the generator for separate storage.

Clean the terminals:

1. Wipe the terminals with a dry cloth and remove any oxidation if present.
2. Optionally, apply a thin layer of technical grease to the terminals to prevent corrosion.

Storage conditions:

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

Maintaining the charge:

1. Fully charge the battery before storage.
2. If the battery is stored for more than 3 months, it is recommended to recharge it every 2–3 months to full capacity.

RETURNING THE BATTERY TO OPERATION

Before reinstalling the battery on the generator:

1. Check the charge level and recharge if necessary.
2. Inspect the casing and terminals for any damage or corrosion.
3. Connect the battery starting with the positive (+) terminal, then the negative (–) terminal.
4. Ensure all connections and mounts are secure.

BATTERY MAINTENANCE

In **DEWALT®** models with electric start, you should periodically perform battery voltage checks. The generator battery has a voltage of 12V, if the voltage is lower, you should perform battery charging with the help of an external charger (included in the delivery set).

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

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 every three months.

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

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

SPARK PLUGS TECHNICAL MAINTENANCE Fig. 11

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 it is shattered – it is necessary to replace it. Recommended replacement spark plugs – FTTC.
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.

⚠ NOTE! An improperly tightened spark plug will become very hot and could damage the engine. Screw in the spark plugs manually at first or very carefully to avoid damaging the threads in the cylinder head. Then, use a wrench.

DAMPER AND FLAME ARRESTER MAINTENANCE Fig. 12

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 (A) and remove the cover (B), screen (C) and flame arrester of the damper. Descale the screen (C) and flame arrester of the damper with a wire brush. Inspect the screen (C) and flame arrester of the damper. Replace them if they are damaged. Replace the flame arrester. Replace the screen (C) and cover of the damper. Replace the cover (B) and tighten the screws (A).

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

FUEL FILTER TECHNICAL MAINTENANCE

⚠ IMPORTANT! Never use petrol while smoking or in the

immediate vicinity of an open flame. Never use water for purification the filter.

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

DRAINING THE FUEL TANK/CARBURETOR Fig. 13

1. Make sure that the generator is set on flat level surface.
2. Unscrew the maintenance cover knob, and remove the cover from the side panel.
3. Make sure that the fuel switch is turned to "OFF", at this position, the fuel valve is turned OFF so that only the fuel left inside the carburetor will be drained out.
4. The carburetor can be accessed between the engine and the air filter. Locate the transparent tube from the carburetor that extends down through the base plate of the generator.
5. Prepare an approved fuel-storage container and direct the end of the drain tube into the container.
6. Open up the carburetor drain screw with a flat-head screwdriver (included in the delivery set) and drain out any fuel that has built up inside the carburetor through the drain tube into the approved fuel-storage container.
7. Once the fuel has drained, tighten the drain screw with the screwdriver.
8. Reinstall the service panel.

⚠ IMPORTANT! Make sure to drain your carburetor before storing the generator for long periods of time.

STORAGE

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! Ensure that the generator remains ready for operation at all times. Therefore in case of device malfunctions, they are to be repaired before dismantling the generator for storage.

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

LONG-TERM STORAGE

Shut off the generator and allow the unit to cool to room temperature before storing it.

⚠ ATTENTION – DANGER! NEVER place any type of storage cover on the generator while it is still hot. Do not obstruct any ventilation openings.

Follow the procedures below for properly storing your generator. We highly recommend running your generator once a month for 20 to 30 minutes. Plug in a small load in to ensure there is proper power output.

If you do not plan to use the generator for a long time, we recommend:

- Generator and engine external parts (especially the cooling radiators) are to be thoroughly cleaned.
- Carburetor float chamber screw has to be removed and the chamber – drained.
- Remove the spark plug.
- Oil drain screw is to be removed and the oil – drained.
- Pour one teaspoon of motor oil to the cylinder (5-10 ml). After that – pull the starter cord for a few times, to let the oil equally distribute on the cylinder walls.
- Install the spark plug.

- Pull the starter handle until you feel the resistance. to let the piston relocate to the upper pressure tact point.
- Smoothly release the starter handle.
- Remove the battery terminals. Grease the battery terminals and connecting terminals with grease to protect against oxidation.

When starting the generator after long storage, follow all procedures in reverse order.

⚠ IMPORTANT! Pay attention to the fact that upon failed attempts to launch the generator by means of an electric start, the battery units may turn out de-energized, therefore prior to operation start it may be necessary to perform full battery unit charging.

POSSIBLE FAILURES AND SOLUTIONS

Typical failures	Possible reason	Solution
Engine does not start	Engine starting switch 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.
	No fuel in the engine, or the oil level is too low.	Add fuel or top up the oil.
	Low-quality or dirty fuel is in engine	Change the fuel.
	Spark 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.
	Air filter is dirty.	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 is overheated	Cooling fins are dirty.	Clean the cooling fins.
	Air filter is dirty.	Change the air filter.
No voltage while engine is working	Circuit breaker is active.	Turn on the circuit breaker.
	Connected cables are corrupted.	Check the cables.
	Connected device failure.	Try connecting other devices.
	Generator is overloaded.	Unplug some devices to reduce load.
Connected devices are not working while generator is running	Short circuit occurred in one of the devices connected.	Unplug that device to restore system stability.
	Air filter is dirty	Clean the air filter.
	Engine speed is lower than nominal.	Contact the service center.

ACCESSORIES

Inverter generators are supplied in a set with portable power plug 230V (32A), plug 230V (16A) Fig. 14A, battery charger: input 230V/0.8A, output 13V/2A Fig. 14B, accessory bag with extendant lever Ø7×131 and spark plug socket M21×180×1.2 Fig. 14C, dual-purpose screwdriver Fig. 14D, oil funnel Fig. 14E, T-socket wrench Fig. 14F, connector for external control contacts Fig. 14G.

RECYCLING INFORMATION

WEEE DIRECTIVE COMPLIANCE (2012/19/EU)

This product is subject to the European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE). The inverter generator must not be disposed of together with household waste. At the end of its service life, the product must be taken to an authorized collection point for electrical and electronic equipment for proper treatment, recovery, and recycling. The



generator housing is made of plastic and should be recycled in accordance with local regulations. The packaging materials, including the cardboard box, are recyclable and should be disposed of through appropriate recycling systems.

BATTERY SAFETY

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

SERVICE AND WARRANTY INFORMATION STATEMENT

The international manufacturer warranty is 2 years or 1000 hours (whichever comes first). The warranty period starts from the date of purchase. Within the warranty period, if the product fails because of defects in the production process, it will be exchanged on the same product or repaired.

The customer must provide buyer's check during request for repair or exchange. Otherwise, the warranty service will not be provided.

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

WARRANTY DOES NOT COVER:

- 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, warranty repair will not be performed.
- 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.
- In case of simultaneous failure of the rotor and stator.
- For wear parts and accessories (spark plugs, nozzles, pulleys, filter and safety elements, batteries, detachables, belts rubber seals, clutch springs, axles, hand starters, grease, mountings, working surfaces, hoses, chains, and tires).
- 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.
- When using low-grade or inappropriate fuel.

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