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Originalfassung

DE BETRIEBSANLEITUNG

STROMERZEUGER

Übersetzung / Translation

EN USER MANUAL

GENERATOR

HR UPUTA ZA UPORABU

GENERATOR

FR MODE D'EMPLOI

GÉNÉRATEUR



CE

ZI-STE2800IV

EAN: 9120039232843



**ACHTUNG: Öl (15W40) kontrollieren!
MOTOR startet nicht bei Ölmenge!**

**ATTENTION: Check Oil (15W40)! Engine
doesn't start with low oil!**

**ATTENTION: Vérifier le niveau d'huile! (
15W40)! Le moteur ne démarre pas à faible
niveau d'huile!**

**PAŽNJA: provjerite ulje (15W40)!
Motor ne počinju na količinu nafte reductor
količina!**



9 PREFACE (EN)

Dear Customer!

This manual contains important information and advice for the correct and safe use and maintenance of the generator ZI-STE2800IV.

Following the usual commercial name of the device (see cover) is substituted in this manual with the name "machine".

The manual is part of the machine and may not be stored separately. Read it profoundly before first use of the machine and keep it for later reference. When the machine is handed to other persons always put the manual to the machine.

Please follow the security instructions!

Please read the entire manual, to prevent misunderstandings, machine damage or even injuries!



Due to continuous development of our products illustrations, pictures might differ slightly.

If you however find errors in this manual, please inform us.

Technical changes excepted!

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10 SAFETY

10.1 Intended Use

The machine must only be used for its intended purpose! Any other use is deemed to be a case of misuse. To use the machine properly you must also observe and follow all safety regulations, the assembly instructions, operating and maintenance instructions lay down in this manual.

All people who use and service the machine have to be acquainted with this manual and must be informed about the machine's potential hazards.

It is also imperative to observe the accident prevention regulations in force in your area.

The same applies for the general rules of occupational health and safety.

The machine is used for:

Generation of 230V~/ 50Hz electricity for the power supply of electrical devices for private use as well as for hobby and DIY projects outdoors, and generation 5V for USB operation within the specified technical limits. Before connecting the electrical devices, please check the compatibility according to the respective manufacturer's specifications.

Any manipulation of the machine or its parts is a misuse, in this case ZIPPER-MASCHINEN and its sales partners cannot be made liable for ANY direct or indirect damage.



WARNING

- **The generator is to be operated only with equipment whose voltage specifications conform with the generator's output voltage.**
- **The generator has an oil pressure protection. If oil level is low, it is not possible to restart the engine.**
- **Never connect the generator to the power supply (socket-outlet)!**
- **Never connect the generator with other energy sources (generators)!**
- **Never change the motor and machine settings.**

Ambient conditions

The machine may be operated:

humidity	max. 70%
temperature	+5°C to +40°C (+41°F to +104°F)
max. altitude above sea level	1500m

The machine shall not be operated in areas exposed to increased fire or explosion hazard.

Prohibited use:

- The operation of the machine outside the stated technical limits described in this manual is forbidden.
- Operation of the machine function without safety devices is forbidden.
- The use of the machine not according with the required dimensions is forbidden.
- The use of the machine not being suitable for the use of the machine and not being certified is forbidden
- Any manipulation of the machine and parts is forbidden.
- The use of the machine for any purposes other than described in this user-manual is forbidden.
- The unattended operation on the machine during the working process is forbidden!
- Never cover the running generator.



10.2 Safety instructions

Missing or non-readable security stickers have to be replaced immediately!

To avoid malfunction, machine defects and injuries, read the following security instructions!

The locally applicable laws and regulations may specify the minimum age of the operator and limit the use of this machine!

- **Use the machine only in good enough light to allow a safe operation can be guaranteed.**
- **In tiredness, decreased concentration or under the influence of alcohol or drugs, the work on the machine is prohibited!**
- **Unauthorized persons, especially children and not trained personnel must be kept away from the running machine!**
- **The machine must be operated only by trained persons (knowledge and understanding of this manual), which have no limitations of motor skills compared with conventional workers.**
- **If you pass the machine to third, these instructions must be attached to the machine.**
- **Danger of burns! During the operation flow of hot exhaust gases and engine parts such as the muffler and engine become hot.**
- **Never place a hot machine in dry grass or other easily flammable materials.**
- **After the operation, the machine must cool down. Otherwise there is an imminent risk of burns.**
- **WARNING: Gasoline is highly flammable!**
- **Stop the engine before refuelling**
- **Smoking and open flames are prohibited during refuelling. Do not refuel when the engine and carburettor are still very hot.**
- **Refuel only outdoors or in a well ventilated area.**
- **Avoid contact with skin and clothes (fire hazard).**
- **Check after refuelling tank cap and check for leaks.**
- **Start the engine at least 3 meters from the tank location.**
- **Spilled fuel is wipe immediately.**
- **Keep the fuel in suitable containers only.**
- **Make sure the fuel does not overflow. If the fuel overflows, the engine must not be started. Remove any dirt from the appliance and prevent any attempt at ignition until fuel fumes have evaporated.**
- **Damaged fuel tank or other tank cap must be replaced immediately**
- **After the operation the fuel cock must be closed (if available)**
- **Danger of Intoxication! Only use outdoors and far from open windows and vents!**
- **Exhaust contains poisonous carbon monoxide. The exposure can cause unconsciousness and death.**
- **No other person, children or pets shall remain within 5m!**
- **Place the generator at least 1m away from buildings and the equipment connected to it.**
- **Place the generator in a secure, level position. Do not turn, tip or change the generator's position while it is working.**

TRANSPORTHINWEISE:

- **Always switch off the engine when transporting and refueling the generator!**
- **Secure the generator against shifting and toppling during transport.**



10.3 Remaining risk factors

Even if the machine is used as required it is still impossible to eliminate certain residual risk factors totally. The following hazards may arise in connection with the machine's construction and design:

- **Risk of burns:**

Touching the mufflers, exhaust and other machine components which can be hot after prolonged continuous operation or when the engine is hot cause severe burns.

- **Risk of fire and explosion:**

Gasoline is highly flammable and explosive under certain conditions.

NEVER refuel fuel or engine oil while the machine is in operation or is hot.

When refueling and at places where fuel is stored not smoke or allow open flames or sparks.

Do not overfill the fuel tank and avoid the spillage of gasoline during refueling. If fuel is spilled make sure the area is completely dry and cleaned before starting the engine.

Make sure that the filler cap is tightly closed again after refueling safely.

- **Chemical risks**

Never use or refuel a gasoline or diesel engine in a closed area without adequate ventilation.

Carbon monoxide emissions from the internal drive units of the engine can cause in confined spaces through inhalation health effects and death. Therefore use the machine only in well-ventilated rooms or outdoors in operation.

Liquid fuels can cause serious damage on the skin and the environment.

- **Risk of electric shock**

Direct electrical contact may cause electric shock.

Never touch the unit with wet hands. Provide adequate grounding.

- **Hearing damage**

A longer stay in the immediate vicinity of the running unit may cause hearing damage.

Wear ear protectors!

These risk factors can be minimized through obeying all security and operation instructions, proper machine maintenance, proficient and appropriate operation by persons with technical knowledge and experience.

In spite of all safety is and remains her healthy common sense and their corresponding technical qualification / training for use of the machines most important safety factor!



12 OPERATION

Please check the product contents immediately after receipt for any eventual transport damage or missing parts. Claims from transport damage or missing parts must be placed immediately after initial machine receipt and unpacking before putting the machine into operation. Please understand that later claims cannot be accepted anymore.

12.1 Pre-operation check

12.1.1 Check engine oil

	ATTENTION	
	The generator is delivered without engine oil and fuel! Engine oil 15W40 must be filled before first use!	

See capture maintenance => engine oil change

12.1.2 Check fuel

- Place the machine on a firm and flat surface.
- Open the fuel cap.
- Check the fuel filter.


Never refuel without fuel filter!

Fuel must be unleaded gasoline

NEVER REFUEL IF THE ENGINE IS RUNNING!



12.2 Operation instructions

	NOTICE
	<ul style="list-style-type: none">• Always place the machine on a firm and flat surface! No turning, tilting or moving during the engine is running• Always check oil and fuel level before starting• Do not connect the appliance before the unit is running at full speed. Disconnect the appliance before turning the unit off.• Connected devices must be in perfect condition.• Keep the cable length to the consumer as short as possible.



12.3 Operation

12.3.1 Start

- Turn the fuel valve to position „ON“
- Switch the Engine-switch to position „ON“
- At cold start set the choke to position „CLOSE“.

At warm start (the engine was running and is still warm) set choke to Position „OPEN“.

If the generator fails to start after 5 attempts, pull choke to position "CLOSE" and try again.

- If the engine runs smoothly set choke to position „OPEN“
- Start the engine with the recoil starter:

Grip the handle and pull the recoil starter.

If the engine does not start, try again.

Normally start: 3-4 attempts



When starting with the recoil starter, the motor may recoil suddenly as it starts up, resulting in hand injuries!

12.3.2 Stop



ATTENTION

In case of emergency stop the generator directly with the ON-OFF switch

In normal circumstances switch off the generator as follows:

Shut down the connected devices and disconnect them from the generator.

To cool down let the engine running for a while without any loads.

Switch off the generator by putting the engine switch to position „OFF“

At longer breaks:

To cool down let the engine running for a while without any loads.



Thereafter close the fuel cock by turning to position „OFF“.

The engine runs until the remaining fuel is consumed in the carburetor.

Switch off the generator by putting the engine switch to position „OFF“



13 MAINTENANCE

 	ATTENTION
	<p>No cleaning, upkeep, checks or maintenance when machine is running! Shut off the machine and let it cool down before start servicing!</p>

The machine does not require intense maintenance. However, to ensure a long lifespan, we strongly recommend following the upkeep and maintenance plan.

Repairs must be carried out by specialists! Use original ZIPPER parts only!

NOTICE
<p>Only a properly maintained equipment may be a satisfactory tool. Care and maintenance deficiencies can cause unpredictable accidents and injuries.</p> <p>Repairs should be performed only by authorized service centers.</p> <p>Improper operation may damage the equipment or endanger your safety.</p>

13.1 Maintenance plan

Servicing period		Before any using	After: 1 month 5 HOO	After: 3 month 25 HOO	After: 6 month 50 HOO	After: 12 month 100 HOO	After: 25 month 250 HOO
Engine oil (15W40)	Inspection	X					
	Change		X		X		
Air filter	Inspection	X					
	Change				X		
Spark plug	Inspection					X	
	Change						X
Fuel tank / fuel filter	Inspection	X					
	Change				X		

Provide appropriate servicing upon the earlier of the following: in the given month or after the specified hours of operation (HOO) have expired.

13.2 Cleaning

- We recommend cleaning the machine immediately after each use.
- Keep all safety devices, air vents and the motor housing free of dirt and dust as far as possible
- Wipe the equipment with a moist cloth and some soft soap or blow it with compressed air at low pressure.

NOTICE
<p>Do not use cleaning agents or solvents; these could attack the plastic parts of the machine!</p>



13.3 Engine oil change

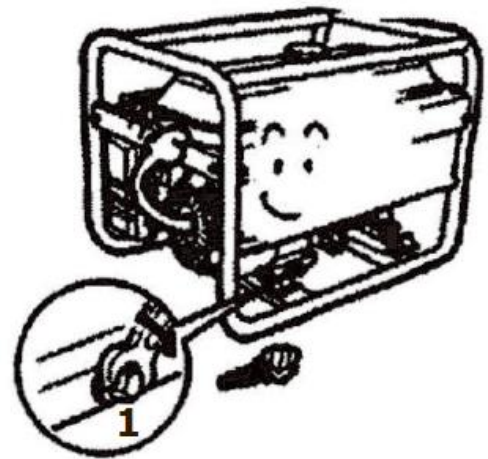


ATTENTION

Switch off the machine before starting the engine oil change!

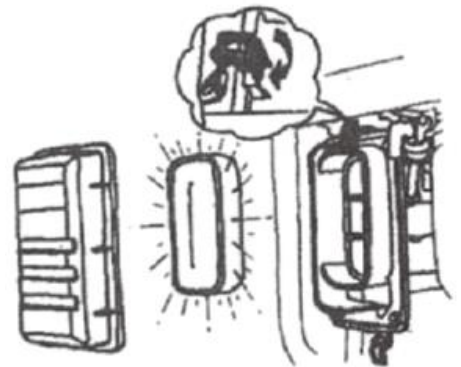
Drain the used oil quickly and completely while the engine is still warm.
For the purposes of environmental protection fill the oil in tight containers and dispose the oil in a recycling center. Do not dispose it with household waste

- Pull out the drain screw (1)
- Drain the dirty oil into a suitable container
- Replace the drain screw
- Remove the dipstick
- Fill in new engine oil (15W40, 600ml) and check the engine oil level with the dipstick
- If the level is correct (FULL) reinsert the dipstick
- Remove oil residues with a rag
- Put the machine on an even area and start the engine. If there is sufficient oil level the low oil alarm light will be not activated



13.4 Air filter

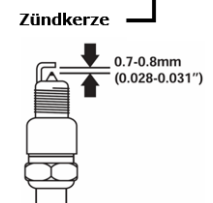
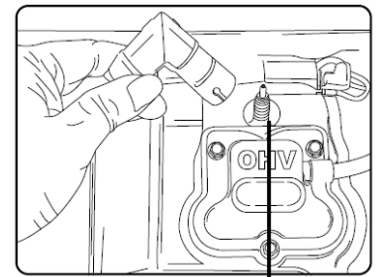
- Loosen the clip and remove the cover
- Remove the air cleaner case
- Remove the air cleaner
- Clean the air filter with soapy water, then rinse with clear water and let it dry thoroughly before reassembling
- Reassemble the air cleaner in reverse order





13.5 Spark plug (F6RTC)

- Open and lift away the left top cover
- Remove the spark plug cap
- Loosen the spark plug using the spark plug socket.
- Visually inspect the spark plug
- Remove carbon deposits with a copper wire brush
- Check electrode gap (0,7 -0,8mm)
- Reassemble the spark plug in reverse order



13.6 Transport

- Secure the machine to prevent slipping
- Do not let the fuel spill out of the fuel tank.
- When the generator is placed on vehicle, the engine may not run.
- During transport, protect the machine from excessive heat. If longer periods in an enclosed vehicle the fuel may ignite due to overheating.

13.7 Storage

If the machine is stored for longer than 30 days:

- Wait until the engine cools down sufficiently.
- Allow the fuel from the tank into a suitable container (or let the machine run till it stops itself) and store the drained fuel in a suitable container.
- Clean and dry machine
- Store in a dry, out of reach of children place
- Cover the machine well and store it in a dry and clean place.

13.8 Disposal

Do not dispose the machine, machine components fuel and oil in residual waste. Contact your local authorities for information regarding the available disposal options. When you buy at your local dealer for a replacement unit, the latter is obliged to exchange your old.





14 TROUBLE SHOOTING

Trouble	Possible cause	Solution
Engine does not start	• Incorrect starting sequence	• Observe the correct starting sequence
	• Dirty air cleaner	• Clean/replace air cleaner
	• No fuel supply	• Refuel
	• Fault in the fuel line	• Check the fuel line for kinks or damages
	• Engine flooded.	• Screw off, clean and dry the spark plug. Then pull the cranking rope several times and reinstall the spark plug
	• Spark plug connector not placed on.	• Place on the spark plug connector
	• No ignition spark	• Clean/replace spark plug • Check ignition cable
	• Fuel cock closed	• Open fuel cock
• Engine oil to few	• Check engine oil	
Engine starts and is stalled immediately	• Incorrect idle adjustment	• Contact customer service
Machine works with interruptions	• Carburetor incorrectly adjusted	• Contact customer service
	• Spark plug fouled	• Clean/replace spark plug • Check spark plug connector
Low oil light glows	• Check oil level	• Fill engine oil
Low oil light glows	• To less or no oil	• Fill engine oil
Overload indicator light glows	• Low voltage protection activated	• Engine speed to low
Overload indicator light glows	• High temperature protection activated	• Cool down the engine
Overload indicator light glows	• Overload protection activated	• To big loads
Overload indicator light glows	• Short circuit protection activated	• Check loads



NOTICE

Should you in necessary repairs not able to properly to perform or you have not the prescribed training for it always attract a workshop to fix the problem.