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Originalfassung

DE BETRIEBSANLEITUNG

Übersetzung / Translation

EN USER MANUAL

FR MANUEL D'UTILISATION

HÄCKSLER

SHREDDERS

DÉCHIQUETEUSE



ZI-HAEK4000

EAN: 9120039233802



ACHTUNG: Öl kontrollieren!

Motor startet nicht bei Ölmenge!!

ATTENTION : Contrôler l'huile !

**Le moteur ne démarre pas avec une faible
quantité d'huile !**



ATTENTION: Check Oil

Engine don't start with low oil!!



10 PREFACE (EN)

Dear Customer!

This manual contains important information and advice for the correct and safe use and maintenance of the shredder ZI-HAEK4000.

Following the usual commercial name of the machine (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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11 SAFETY

11.1 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:

Shredding of branches of all kinds. Wilted, moist, garden waste already stored several days alternating with tree branches.

This machine is approved for public road traffic!

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

- **Set during the operation could ensure that no foreign objects (such as stones, glass, metal, earth, and plastic) are filled into the shredder, such as foreign bodies blunt the chopping blade and severely damage the engine.**
- **Use your shredder solely for the purposes for which it was designed.**
- **The chopper should be carefully checked before use. Never use a chopper that is not in good condition if you notice a defect on the machine, which could pose a danger to the user, do not use the chopper until the defects have been corrected.**
- **This machine contains rotating blades.**
- **This blades does not stop immediately after stopping.**
- **The in-feed must be completely assembled and fixed prior to use.**

Prohibited use:

- The operation of the machine outside the stated technical limits described in this manual is forbidden.
- Operation of the machine function without any protection devices is forbidden
- The use of the machine for any purposes other than described in this user-manual is forbidden.
- Any manipulation of the machine and parts is forbidden.
- The use of the machine not being suitable for the use of the machine and not being certified is forbidden.
- It is not allowed to leave the immediate work area during the work is being performed!



11.2 Security 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!**
- **Caution in slippery conditions - slip hazard - risk of injury. When working, robust and non-slip footwear. Slides / stumble / traps are a major cause of serious injury or death.**
- **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.**
- **No other person and pets shall remain within 12m!**
- **If you pass the machine to third, these instructions must be attached to the machine.**
- **Before each use, the reliability of the machine is to be checked (tightness of the cutting tool, the proper function of the throttle lever, safety switch)**
- **Use personal safety equipment (ear protectors, safety gloves, safety shoes, safety goggles or face protection...) when working with the machine!**
- **Make sure that the device is completely and correctly assembled.**
- **Never leave the machine running unattended! Before leaving the working area switch the machine off and wait until the machine stops.**
- **Switch off the machine before maintenance or adjustment.**
- **The machine should be only during operation on solid level ground.**
- **Neither put your hands into the in-feed and discharge chute when the machine is running.**
- **Do not allow processed material to build up in the discharge zone. This may prevent proper discharge and can result kickback of material through the feed intake opening.**
- **Do not tilt the machine while the power source is running.**
- **Using your shredder only in places where it is protected from water and never use it during rain outdoors.**
- **Danger of burns! During the operation flow of hot exhaust gases and engine parts such as the muffler and engine become hot.**
- **Only operate the machine in open space (e.g. not close to a wall or other fixed objects).**
- **Make use that the machine is not standing near a wall**
- **If the engine overload protection is triggered, this is a sign that the machine is overloaded. Check the cause and remedy. Do not install a more powerful fuse.**
- **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.**



Before the start, after the failure or shock, be sure to check:

- the device and make sure that it is in good condition
- if the hopper is empty
- if the blades are secure and undamaged
- the muffler

Change damaged parts immediately

TRANSPORT NOTES:

- Switch off the engine and let cool down
- Never lift or carry the machine while the engine is running
- Wait till the blade are completely stopped
- Secure the machine
- Empty tank completely, avoid fuel spillage
- To avoid damage to the device never drag but always lift correctly.

STORAGE NOTES:

- Clean and dry the machine
- Empty tank completely, avoid fuel spillage
- Let cool down the engine
- Store in a dry, out of reach of children place, well packaged
- Do not store machines with fuels and fuels close to combustible and highly inflammable materials as well as sparks and open flames.
- Never remove the fuel tank cap when the engine is running or hot

Switch of the engine and disconnect the spark plug lead:

- Before check, clean or work on the machine
- Before eliminating faults
- Before the start, after the failure or shock, be sure to check the device and make sure that it is in good condition
- If the shredder starts to vibrate abnormally, stop the engine immediately and locate the cause. Vibrations generally terminate in malfunction.
- If the machine becomes clogged
- Before refuelling
- Always if you leave the machine

11.3 Remaining risk factors



WARNING

It is important to ensure that each machine has remaining risks. In the execution of all work (even the simplest) greatest attention is required. A safe working depends on you!

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 injury to the hands / fingers due to careless feeding of chopping material.
Feed the chopping material slowly and carefully into the in-feed. Automatic feeding!
- Risk of injury: hair and loose clothing, etc. can be captured and wound up! Safety regulations must be observed with regard to clothing.
- Risk of injury by tilting the machine
- Risk of injury to the eye by flying debris, even with safety goggles.
- Risk of injury to the hearing by prolonged labor without hearing protection.
- 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.

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 ASSEMBLY

12.1 Delivery content


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.

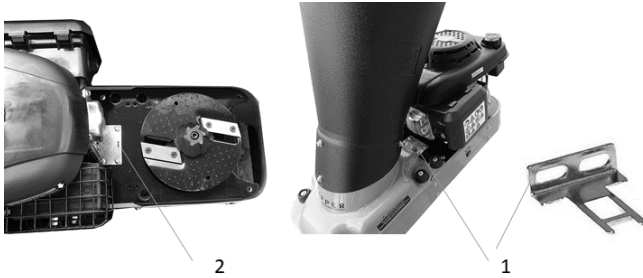
12.2 Assembly

The machine is delivered fully assembled. Only hopper and wheel have to be mounted.

12.2.1 Mounting the hopper

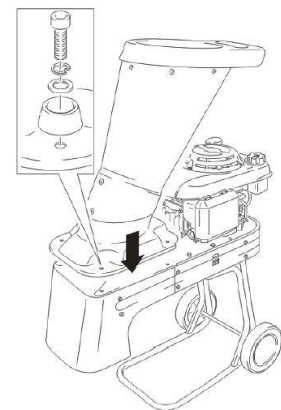
NOTICE





Make sure that you insert the contact plug on the hopper into the slot on the machine when placing the hopper. The machine cannot be started without this contact.

- Place and align the hopper on top of the hopper seat.
- Use the screws to fix the hopper on the machine.



12.2.2 Mounting the wheels

- Stick the wheels on the wheel shaft.
- Put a washer on the outside of the wheel.
- Fix the wheel with a split pin.



WARNING

After finalized assembly check all screw connections and retighten if necessary!



13 OPERATION

Machine to be operated in a perfect state only. Inspect the device visually every time it is to be used. Check in particular the safety equipment, electrical controls, electric cables and screwed connection for damage and if tightened properly. Replace any damaged parts before operating the device.

13.1 Operation instructions



WARNING

**Stop the machine before any break, maintenance and cleaning!
RISK OF INJURY!**



NOTICE

- **Do not stand in the discharge chute area during starting the machine**
- **Before starting check that the in-feed the free from any material**
- **Start shredding after the engine has reached full speed**
- **Operating only with sharp blades**
- **Use only blades allowable for this machine!**
- **Never use damaged blades!**
- **Always operate in the operator zone**
- **Never stay in the in-feed zone**

13.2 Operation

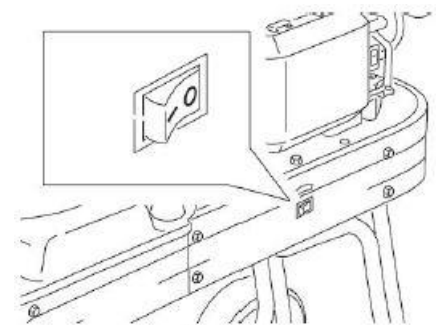


WARNUNG

The machine is delivered without any gasoline or oil.

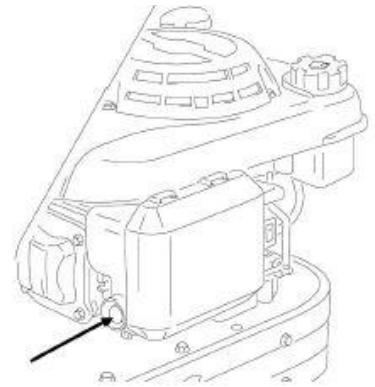
13.2.1 Start, stop

- Set the ON-OFF switch to „ON“(I).

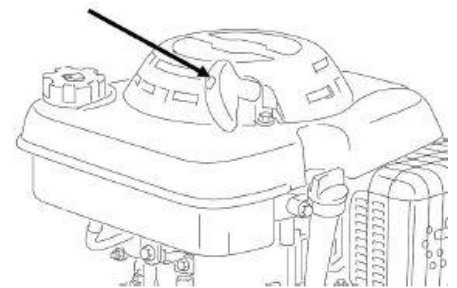




- Press the primer pump 2-3 times (only if the engine is cold).
- Do not press it exceed 5 times, otherwise, it will be hard to start.



- Pull the starter rope until the engine starts.
- Always pull the starter rope straight out.
- Always pull the starter rope all the way out.
- If the engine fails to start after repeated attempts, refer to the troubleshooting chapter.
- Set the switch to the "STOP" (O) position.



13.2.2 Shredding

NOTICE



- **The material to be shredded should be as dry as possible!**
- **To wet material causes clogging**
- **Insert the material to be shredded into the in-feed and when the material is gripped by the machine and automatically sucked in, release the material immediately**
- **Push the remaining material with the push stick into the hopper**
- **Always feed in material with the thick end first**
- **Saw off long side branches and insert them separately**
- **Never work with too much pressure**
- **Do not overload the machine**
- **In the event of blockages, switch off the engine immediately and eliminate any malfunctions.**
- **Remove crosswise lying material only when the engine is switched off and the blades are stopped!**
- **Use a suitable piece of wood (branch) for removal.**
- **Switch off the engine immediately if there are any unusual noise and vibrations. Repair any faults immediately.**

After finishing the shredder work let the machine sufficient time to process the whole shredding material. This avoids start-up difficulties when working next time!

To be shredded:

Hedge and tree cuttings, bushes, perennial herb, dead flowers

To be not shredded:

Glass, metal, plastic, plastic bags, stones, cloth, roots with soil, food left-overs, fish or meat.



14 MAINTENANCE



ATTENTION

**No cleaning, upkeep, checks or maintenance when machine is running
Shut off the machine, let it cool down, disconnect spark plug cap from spark plug!**

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

Only a properly maintained equipment may be a satisfactory tool. Care and maintenance deficiencies can cause unpredictable accidents and injuries.

Repairs should be performed only by authorized service centers.

Improper operation may damage the equipment or endanger your safety.

14.1 Maintenance plan

	Before every use	5 hours or first month	25 hours or every 3 months	50 hours or every 6 months	100 hours or every year
Check fuel level	0				
Check for loss of fuel or oil	0				
Check oil level	0				
Check for loose or lost screws, nuts, bolts	0				
Check V-belt	0				
Change oil		0		0(1)	
Clean air cleaner			0(2)		
Replace air cleaner					0
Check-clean spark plug				0	
Replace spark plug					0
Lubricate blade chassis			0		
Check flywheel brake pad				0	
Check-adjust idle speed					0(3)
Check-adjust valve clearance					0(3)
Clean combustion chamber	every 100h (3)				
Check fuel line	every 2 years (3)				

(1) Change engine oil every 25h when used under heavy load or in high ambient temperatures.

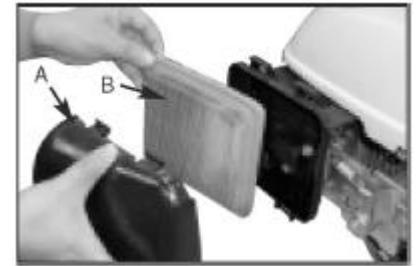
(2) Clean more often under dusty conditions. Replace air cleaner parts, if very dirty.

(3) These items should be serviced by a trained professional unless you have the proper tools and are mechanically proficient.



14.1.1 Cleaning the air filter

A clogged air filter reduces the engines power output drastically and causes engine disfunction. Furthermore, it reduces the engines lifespan! Disassemble the air filter cap (A). Remove the air filter (B) from the machine. Clean the air filter and drip some drops of oil onto the filter. Mount the filter back.



14.1.2 Spark plug

Recommended spark plug: F7RTC

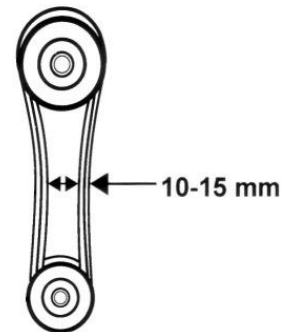
Cleaning:

Take off the spark plug cap. Loosen and remove the spark plug. Clean it with a small brush from soot debris. The contact distance shall account approximately 0.7mm – 0.8mm.

14.1.3 Adjusting the V-belt

The V-belt connects the engine and blade drum. Especially with new machines or even after the change of the v-belt this itself is getting wider and loses purchase. If the V-belt yields more than 10-15mm on thumb pressure, it is necessary to adjust the V-belt again.

1. Switch off the machine and take off the cover of the belt.
2. A safety-switch avoids unintentional starting of the machine while the cover is removed.
3. Loosen the nuts of the screw connections, which fix the motor on the base plate.
4. Move the engine back, in order to tighten the V-belt.
5. Move the engine forward, in order to loosen the V-belt.
6. Put the engine and drive pulley parallel (a ruler can be helpful). Tighten the nuts at the engine again.
7. Fix the cover of the V-belt.



14.1.4 Blades



NOTICE

- **Wear safety gloves.**
- **After approx. 30-50 working hours, the blades are blunt under normal operating conditions.**
- **Blades are blunt if:**
 - **abnormal noise occurs**
 - **speed decreases**
 - **V-belt (despite correct tension) slips**
- **Replace damaged blades immediately!**

Remove the hopper. Loosen the screws. Sharpen or replace the blades.

14.1.5 Carburettor

NOTICE

Carburetor settings must be performed only by trained personnel!

14.1.6 Oil level check

- Make sure the machine is standing on an even surface.
- Dismantle the machine oil ruler, rub up it with clean duster cloth, and stick it into the oil-filling mouth to check the oil level. Pay attention not to drop the ruler into it.



- If the machine oil level is below the bottom of the machine oil ruler, fill the recommended machine oil into the fuel-filling mouth.
- If the engine runs while oil is in shortage, it can be seriously damaged.

14.1.7 Oil change



WARNING

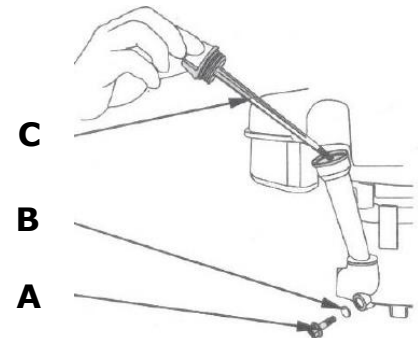
The disposal of the oil must meet the regulations. Make sure that no oil is spilt during the oil change (using of suitable container; if oil drops in machine, clean it properly and dispose the cleaning tool correctly). Do not dispose of the oil in residual waste.



NOTICE

Changing the oil is easier when the engine is still warm.

- Remove the oil outlet screw (A) and the seal ring (B).
- Drain the dirty oil into a suitable container.
- Fix the oil outlet screw again.
- Fill in new engine oil.
- Check the engine oil level with the dipstick (C).
- If the level is correct, reinsert the dipstick again.



14.1.8 Refuel

Each normal petrol (unleaded petrol) with octane index (ROZ) of 95 can be used. Never use a mix of oil and petrol or dirty petrol. Avoid infiltration of the gasoline tank by water, dust or dirt.

NOTICE

It is not recommended to use alternative for gasoline, because this can cause damage of parts of the gasoline system.

14.1.9 Cleaning

Clean the machine and the working attachment from dirt.

Clean the machine housing with a wet cloth and a mild cleaning solution.

Put on all coatless flats a thin coat of oil.

NOTICE

The usage of solvents, aggressive chemicals or scouring agents damages the machine housing.

14.1.10 Storage

If the machine is stored for longer than 30 days:

- Run engine until fuel tank is empty and engine stops.
- Let the machine cool down.
- Clean the machine and dry.
- Empty Tank and carburetor completely, avoid fuel spillage.
- Remove the spark plug cap.



- Slowly pull the start handle until the resistance is reached, then stop pulling. At that point, the valves are closed, that will prevent dust and rust from entering the cylinder.
- Store in a dry, out of reach of children place, well packaged.

14.1.11 Disposal

Do not dispose the machine in residual waste. Contact your local authorities for information regarding the available disposal options. Avoid damage caused by leaking operating supplies: drain the operating supplies prior to disposal! When you buy at your local dealer for a replacement unit, the latter is obliged to exchange your old.



15 TROUBLE SHOOTING



ATTENTION

Shut off the machine, let it cool down, disconnect spark plug cap from spark plug

Trouble	Possible cause	Solution
Engine does not start	• Ignition switch defect	• Repair or change
	• Engine switch OFF	• Set the engine switch to ON
	• No fuel, or fuel is old and stale	• Refuel
	• Engine oil is low	• Add oil
	• Spark plug dirty or damaged	• Clean or change
	• Fuel line faulty	• Check fuel line for damage and kinks
To low power	• Air filter dirty	• Clean or change
	• V-belt	• Tighten or change
	• Overload	• Reduce material feeding
	• Blockage	• Remove shredded material
	• Blades blunt	• Replace/ sharpen blades
No automatically feeding of the shredded material	• Blades blunt	• Replace/ sharpen blades
Machine vibrates or makes unusual noises	• Screws, nuts or other parts are loose	• Fix parts
	• Impeller or blades have woody residue or chucks stuck to them	• Clean the impeller and blades
Engine overheats	• Chips and sawdust around the engine	• Clean the engine surface
	• Air filter dirty	• Clean or change
Chips do not come out of the discharge	• Discharge chute or hopper is clogged.	• Turn of the engine, disconnect the spark plug, then clean out the machine



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.