



Kellfri[®]

27-SF20 STUMP GRINDER



**PLEASE READ ALL INSTRUCTIONS BEFORE USING THE PRODUCT!!
TRANSLATED FROM THE ORIGINAL**

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INTRODUCTION

Thank you for choosing a product from Kellfri AB. By following general safety information, operating instructions and common sense, you will have many years of enjoyable use of the product. Kellfris equipment and products are aimed to be use by active farmers with high demands on functionality.

PRODUCT INFORMATION

Kellfris stump grinder is used to remove stumps by moving the blade in a sweeping sideways motion. The girinder grinds down the stump about 1-2.5 cm each sweep. Stable handle makes the machine easy to lift and move from one stump to another.

INTENDED USE

The machine is only intended for grinding of stumps. Clear the working area from any foreign objects before using the machine.

TECHNICAL DATA**27-SF20**

Model	JF390
Motor	4-stroke engine, tilt, single cylinder, air cooled
Max Power	13 hp
Cylinder diameter and stroke	88 x 64 mm
Capacity	389 ml
Compression	8.0:1
Max torques	26.4Nm von 2500 rpm
Ignition system	Non-contact transistorized ignition(T.C.I)
Start mode	Recoil and hand-operated
Air cleaner	Semi-dry, oil, bath, dual, double, silent and cyclone type
Engine oil capacity	6,5 L
Fuel consumption	260 g/hk/h
Engine oil capacity	1,1 L
Dimension (engine)	450x440x435 mm
Weight (engine)	31 kg
Brake	Disc- lever activated
Drive	Direct
Belt	9J
Clutch	Centrifugal koppling
Cutters	5-10 cm
Cutting depth	35 cm
Cutter teeth	12 st hårdmetall
Wheel diameter	25 cm
Weight	100 kg
Packed size (LxBxH)	113 X 83 X 76 cm

SAFETY INSTRUCTIONS

Before using the equipment or product, and for the safety of yourself and others, you must read the safety instructions and the instruction manual and understand its contents. Always keep the safety instructions and instruction manual handy for users of the equipment or product. For the safety of both yourself and others, it may be a good idea to read through the safety instructions every now and then. If the safety instructions or instruction manual gets damaged or in any other way cannot be used, new copies may be ordered from:

Kellfri AB, Munkatorpsgatan 6, 532 37 SKARA

Sweden. Tel.: +46 (0)511 242 50 (Pls. contact the retailer) <https://www.kellfri.co.uk/>

Do not use the equipment or product if you feel ill, tired or are under the influence of alcohol. Do not use the equipment or product if you are taking prescribed medication or drugs. Always comply with general rules of the road and applicable rules stipulated by the Protection of Animals Act. People under the age of 15 are not allowed to use the equipment

PRODUCT SAFETY INFORMATION

- Follow all safety instructions. Failure to may result in injury to yourself or others.
- Never put your hands or feet under the machine without stopping the equipment and the engine
- Never use the machine indoors or in places where there is lack of good ventilation
- Be careful when using the machine, particularly when reversing. Never work on wet grass, bad grip can cause you to slip.
- Never use your foot or other body part to increase the machine's pressure against the stump grinder.
- Smoking or open flames are prohibited in the vicinity of the machine. The gasoline can be easily ignited and cause injury.
- Never use a machine with a defective muffler
- Be careful when you use the machine in dry and hot weather, the operation can cause sparks. Risk for fire!
- Do not use the machine on slopes greater than 10°
- Only you operating the machine may be in the vicinity of the it during operation.
- Respect the machine's danger zone: 5 m
- Accident prevention regulations, other general safety regulation, occupational safety rules and traffic regulation must be followed without fail.
- All users shall be trained in use of the machine. the owner is responsible for training users.
- Engage an authorized workshop for all service and repair not described in this manual.
- Learn how to use the machine and its controls safely and learn to recognize the safety decals.
- Only use the machine for removing tree stumps it is not intended for any other use.
- Check that the machine is in serviceable condition prior to use
- Only use the machine in daylight or in other well-lit conditions. Keep the machine a safe distance from holes or other irregularities in the ground. Pay attention to other possible risks.
- Only allow the machine to be used by adults who by adults who are familiar with its use.
- Never allow children or persons no trained in the use of the machine to use or service it
- Local laws may regulate the age of the user.
- People and animals can distract you causing you to lose control of the machine. For this reason, you should always concentrate and focus on the task at hand.
- Never leave the machine unsupervised with the engine running.
- Make sure that other people are nearby when you are using the machine so that you can call for help should an emergency arise.
- The machine is tested and approved only with the equipment originally provided or recommended by the manufacturer.

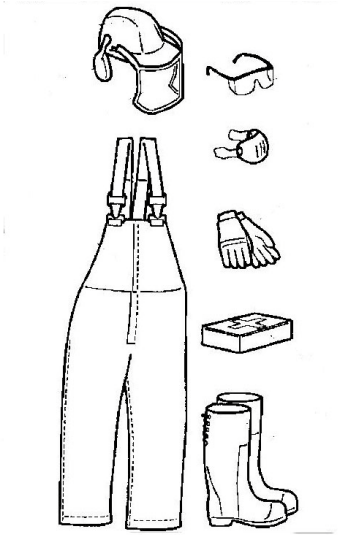
INSTRUCTION FOR EMERGENCIES

In case of an emergency please dial 112.

Keep cell phone or emergency phone available specially when working alone. First aid kit and fire extinguishers must be kept easily accesable during all work, maintenance and service.

PERSONAL PROTECTIVE EQUIPMENT

Always use suitable protection equipment. Do not wear loose clothing or jewellery while working with the equipment. Long hair should be tied up when working equipment that has moving parts. Use protective gloves as there is a risk of burns if any hot surfaces are touched such as exhaust pipes, and avoid getting oil and petrol on skin. Ear defenders must be worn whilst the engine is running. A helmet and face shield is recommended to use when using the machine.



SURROUNDINGS

Check and make sure that the area is clear of people, children and objects before switching on or using the equipment. Risk of serious personal injury. Be especially careful if children are in the area where the equipment is being use or stored. Check that there are no low-hanging power lines within the work area. Be careful when working on slopes and near ditches.



WARNING LABELS

Make sure that the warning labels are always visible, clean the warning labels if necessary. Do not wash with high pressure washer directly on the warning label. If any part of the decal is worn or label becomes frayed or otherwise unreadable, order new decals.

SYMBOL	Explanation
	Danger zone 5 m
	Warning! Keep distance!
	Caution! Rotating knives
	Prohibition to stay on the machine
	Warning! Keep off the machine!
	The product is CE marked
	CAUTION! Smoking and fire are forbidden in the vicinity of



Important!

IMPORTANT INFORMATION

Never use a stump grinder that is damaged or incorrectly adjusted. Never use the stump grinder if any component is missing or if it is not properly assembled. Check that the cutting tools stop rotating when you reduce the throttle. If you find yourself in a situation where you are not sure what to do, always seek expert assistance. DO NOT try to attack any problem you are not qualified to resolve.

BEFORE USE

Read the instruction manual carefully. Be sure that you understand the safety information, instruction manual and warning labels. Use common sense when using and use the appropriate personal protective equipment. Always check the performance of the machine combination to be used. Importantly, these harmonize and match in a satisfactory manner. This is to ensure the implement function and your and others' safety. Visually inspect the machine or the product before operation. Fix or replace damaged and worn parts immediately to reduce the risk of injury. Lubricate moving parts and check that all screw-nuts and bolts are tightened. Clearing when necessary.

Learn and remember the correct working methods. Beginners should always keep a low speed, use extreme caution before the operation and product knowledge is achieved. The user/customer is responsible to handle the situation correctly. The product should not be taken into use unless it can be done in a safe way for the user.



Warning!

The machine's original design may not under any circumstances be changed without the permission of the manufacturer. Non-authorized modifications and / or accessories can result in life-threatening or fatal injury to the operator or others.

- Check the work area before starting the operation and remove the underlying objects that may cause any accident. Dig away the earth and remove any stones near the tree stump that may interfere with your work. Check that the ground is free of foreign objects, such as electrical cables, barbed wire, etc. Cut or trim the stump as necessary using a power saw.
- Check that the grinding teeth are sharp and cannot come loose
- Make sure that all guards are correctly mounted.
- Check the engine oil level, refill if needed
- Fill up the fuel with unleaded, clean gasoline, not oil mixed gasoline
- Adjust the throttle control handle.
- Clear the area of objects such as stones, toys, steel wire, etc. that could become caught in moving machine parts and thrown out.
- Find and locate all fixed objects in the ground, such as sprinkler systems, poles, water valves, bases for washing lines, etc. Be certain to check for hidden electrical cables or similar in the surface of the lawn. Always run the machine around these objects. Never intentionally run the machine over foreign objects.
- Check the dead man's grip and all guards are fitted and functioning. DO NOT use the machine if it is not working properly.
- Use mouth protection, protective gloves with good grip and protective clothing which you can move unrestricted. Also use leg protection to protect your legs from sparks and the cutting tools.
- Never use the machine when barefoot. Always wear protective boots with anti-slip and preferably with steel toes.
- Use a helmet with a full face visor or a mesh visor and protective glasses. Wear approved ear-protection when running the machine. Ask your dealer about approved protective glasses, ear protection and recommended helmets.



USE / OPERATION

Only people who understand the safety information and instructions in this manual may operate the equipment. Be alert and careful when working with the machine and only use the tool or product in the manner described in this manual. When working with equipment that has moving parts, there is always the risk of injury. Be careful when working with equipment equipped with hydraulic hoses ,oil under pressure can penetrate the skin. Seek medical attention immediately if this occurs. Always work alone with the tools that are defined as single purpose tools. Respect the equipment's danger zone.



Overexposure to vibration may lead to circulatory or nerve damage, particularly in people who have impaired circulation. Contact your doctor if you experience symptoms that could have been caused by overexposure to vibration. Examples of common symptoms include numbness, pain, muscle weakness, change of skin color or an uncomfortable feeling of tingling. These symptoms appear most frequently in the fingers, hands or wrists.



Important!

Always use approved protective clothing and approved protective equipment when using the machine. Protective clothing and protective equipment cannot eliminate the risk of accident, but wearing proper clothing and the correct equipment will reduce the degree of injury should an accident occur. Ask your dealer about approved protective clothing and approved protective equipment recommended.

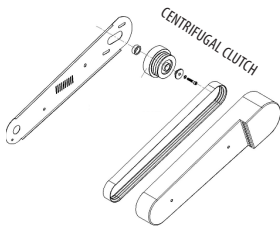
FUELING

Read the safety instructions before fueling. Keep the fuel and fuel tank clean. Avoid filling the machine with dirty fuel. Make sure the fuel cap is properly tightened and the gasket is not damaged, particularly before washing the machine. SAE10W-30 is recommended for general use. If the engine "bolts" at normal load it can be damaged. Change the fuel. If this does not help, contact an authorized service workshop. Do not fill the tank completely; leave space for the fuel to expand as it warms up.



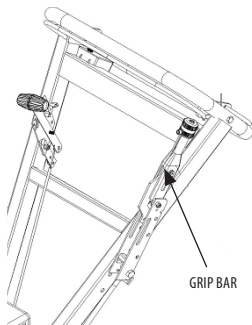
Warning!

Gasoline is highly flammable. Observe caution and fill the tank outdoors. (See the safety instructions).



Centrifugal clutch

The engine is equipped with a centrifugal clutch that is connected to the crankshaft. When the engine speed increases, the drive for cutting wheel engages automatically. The centrifugal clutch is maintenance-face; it is not possible for the user to make adjustments..



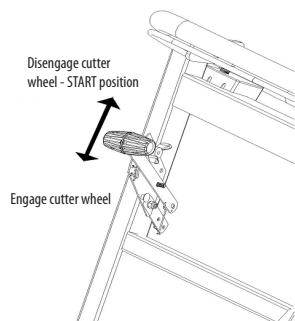
SAFETY PRESENCE GRIP BAR

The bar must be held against the handle for the engine to run. If you release the grip, the ignition system short-circuits and the engine stops.



DO NOT BIND THE BAR TO THE HANDLE.
IT IS THERE FOR YOUR SAFETY.

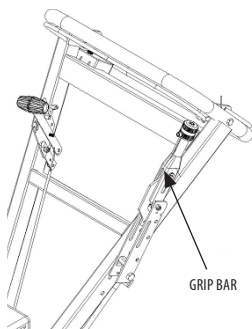
Warning!



THROTTLE

The lever controls engine speed. With the lever down, the engine runs at idle and functions as start position. When the engine speed increases, the centrifugal clutch drive automatically engages the cutting wheel.

WARNING! NEVER operate a machine with a defective brake



Brake

The lever activates a disk brake on the left wheel when it is pulled backwards. The brake should always be activated when operating the grinder. When it is parked and when it is being transported.

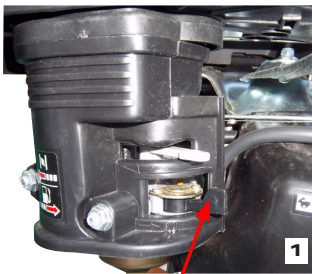


Warning!

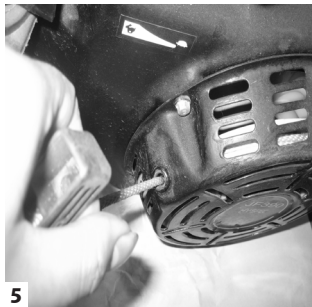
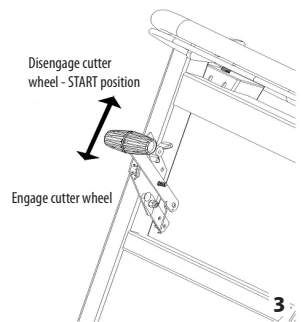
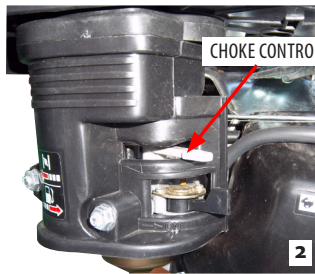
The product must not in any circumstances be modified without permission from the manufacturer. Unauthorized modification of the machine and/or accessories can cause fatal injuries or death to operator or others.

STARTING THE ENGINE

1. Always follow the recommended service and maintenance, written under the Maintenance and Service.
2. Make sure there is enough fuel in the tank
3. Fuel valve: Open the fuel valve. Place the lever all the way to the right. (fig.1)
4. Choke control: When starting the engine warm, the lever should be in the right position; see the illustration. When starting the engine cold or partially warm, place the lever completely or partly to the left. Move the lever back to the right once the engine starts. When the engine is cold, it may be best to move the lever back in several stages. Find the position where the engine runs smoothly. (fig. 2)
5. Throttle: Set the throttle on the handle to the SLOW (START)/DISENGAGE position (fig. 3)
6. Safety presence grip bar: Hold in the safety presence grip bar against the handle. (fig.4)
7. Starter handle The dead man's grip must be pressed in when starting the engine. Misuse of the starter handle can damage the starter. DO NOT twist the starter cord around your hand. Pull out the handle slowly until the gears mesh. Then give a sharp pull on the starter handle. DO NOT pull out the starter cord completely and DO NOT let go of the starter handle when extended.



FUEL VALVE



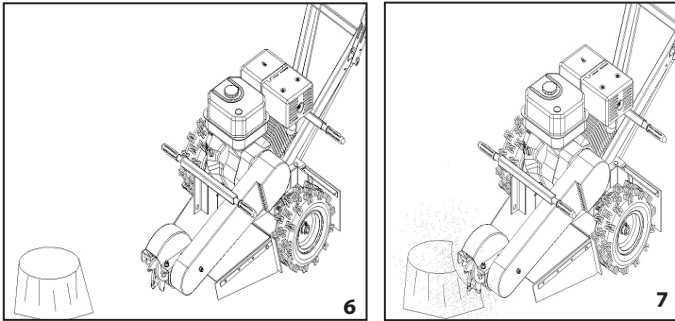
Operation

Stage 1

1. Place stump machine into position with cutting blade near the front-top edge of stump.
2. Set brake to lock position.
3. Set throttle to (START) DISENGAGE position.
4. Start engine.
5. Allow engine to warm up at idle for two minutes.
6. Move throttle up to the ENGAGE position (this will engage the cutting blade rotation).
7. Swing the cutting blade to one side, then lower it approximately 1/2" to 1" into the front-top corner of the stump. Swing the cutting blade back and forth, lowering the cutting blade approximately 1/2 "to 1" before each sweep, until you have removed the front portion of the stump to ground level. (fig.6-7)

Caution Never leave the machine with the engine running and the blades rotating!

Keep people and animals at a safe distance when the blades are in motion!



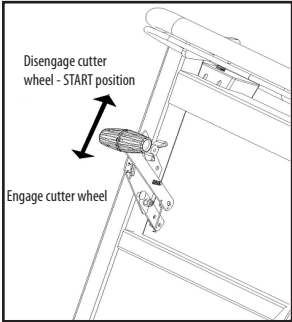
To swing or steer the machine, press down on the handle and turn the rear wheels.

8. Raise cutting blade until center of cutting blade is just above top of stump.
9. With the cutting blade off to one side, advance the machine horizontally by releasing and resetting the brake. Advance the machine forward to engage the cutting blade into the stump so that when swept across the stump it will remove 1/2" to 1" of stump with each sweep.
10. Sweep the cutting blade across the stump, cutting away 1/2" to 1" of stump.
11. Advance cutting blade 1/2" to 1", and sweep across stump in opposite direction.
12. Continue sweeping cutting blade left and right across stump, advancing it before each sweep, cutting 1/2" to 1" depth of stump with each sweep.
13. Continue cutting until top level of stump is all removed, making sure not to cut stump deeper than ground level during this first stage.
14. Turn throttle to the (START) DISENGAGE position, wait ten seconds for blade to stop rotating then release brake and retract machine from stump.
15. Pull machine away from stump, and rake chips away from stump

Stage 2

16. Place stump machine into position with cutting blade near the front-top edge of the stump.
17. Set brake to lock position.
18. Move throttle up to the ENGAGE position.
19. Complete cutting stump by repeating step 12 again and again until entire stump is cut to desired depth.
20. Stop the machine.

NORMAL SHUTDOWN



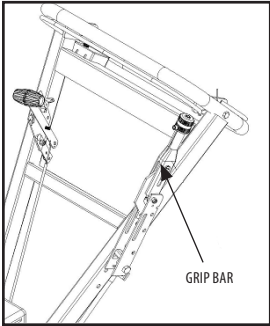
Throttle

Set the throttle to SLOW/DISENGAGE. If the engine has been running full out, let it run easily for about 30 seconds to one minute at low speed.

DO NOT let front of unit touch ground until you are sure cutting wheel has stopped turning

WARNING!

A rotating cutting blade is very DANGEROUS! Stay at the operating position and be sure that the blade comes to a complete stop before doing anything else.



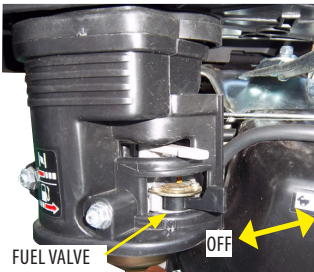
Brake

Activate the brake by pulling the lever.



Caution!

The engine can become very hot. To avoid being burned, you must turn off the engine and wait until all parts have cooled before touching the engine.



FUEL VALVE

Close the fuel valve. Turn the lever all the way to the left (see illustration). Release the safety presence bar. Wait until the blade stops. Make sure that the blade is resting against the ground and has stopped completely before doing anything.

CUTTING BLADE

Among the most critical elements of the Stump Machine is the cutting blade. It is also the most subject to damage and wear. In the course of cutting stumps it not only makes contact with the wood, but also encounters numerous assortments of abrasives and objects in the stump's environment, such as dirt, stones, and occasionally a large rock or buried scrap. The loss of and wear of cutting teeth can significantly impair the efficiency and performance of the Stump Machine. Therefore, it is important to make frequent observations of the condition of all of the cutting teeth and replace or sharpen any damaged or worn blade sections. Read all of the following instructions before beginning to change cutting blade sections.

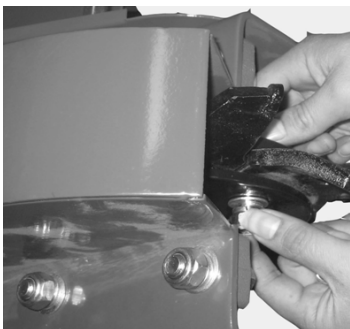
CHANGING CUTTING BLADE SECTIONS.

NOTICE! Read all the following instructions before beginning to change cutting blade sections.

1. Clean all dirt from the cutting blade and mounting flanges.
2. Remove all bolts holding cutting blade, (Be careful not to let a section drop when they become loose).
3. Check each section for cracks. Replace blade section if it is cracked.
4. When replacing cutting blade sections, make sure blade section is placed in alignment with blade rotation.
5. Refer to page of this Manual for proper blade attachment.



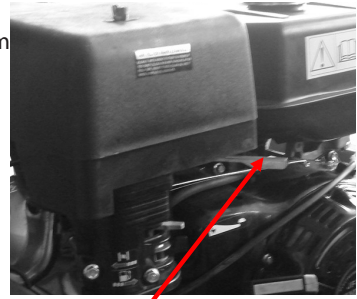
Insert blade section between the blade mounting flanges.



Slide bolt through one side of flange, through one side of flange, through blade section, and through flange on other side. Attach lock washer and nut, tighten securely. (Make sure tow bolts are tightened for each blade section).

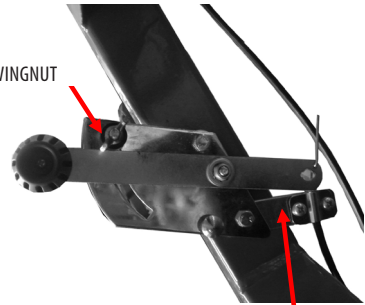
Assemble the Throttle Control Handle

- Make sure the throttle lever should be at minimum position on engine before start assembly.



THROTTLE LEVER

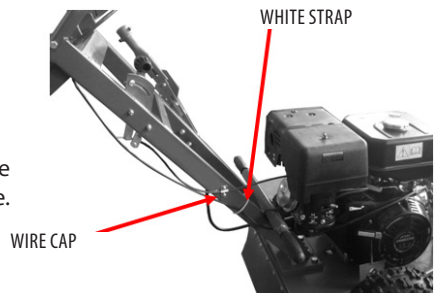
- Then, fix the Throttle Control Handle Ass'y to the Lifting Handle. Make sure the top of handle bar should touch the Butterfly Nut, and the bottom of the handle bar should touch the pressure plate.



WINGNUT

PRESSURE PLATE

- Fix the wires to the lifting handle, then use white strap to tie up the rest wire to the lifting handle.



WIRE CAP

WHITE STRAP

MAINTENANCE AND SERVICE

Make sure the tool stands stable and not likely to tip over during maintenance and service. Replace damaged and worn parts immediately to reduce the risk of injury. Perform maintenance, servicing and inspections as recommended. Use only parts with equivalent performance to reduce the risk of damage and failure.

- Regularly check the condition of the machine to prevent breakdowns. If cracks, twists, bends, gaps or fatigue is discovered, stop the operation and rectify the faults
- Replace worn parts. Tighten all screws and nuts after a few hours of operation, and after that every day when using with the machine.
- Always check all bolts and nuts are tightened after maintenance and service. Always test the machine before work is started.
- Lubricate all lubrication points regularly. Lubrication points are to be lubricated every 20 hours.

WINTER STORAGE

At the end of the season, the machine should be readied for storage (or if it will not be in use for longer than 30 days). Fuel allowed to stand for long periods of time (30 days or more) can leave sticky residues that can plug the carburetor and disrupt engine function. Fuel stabilizers are an acceptable option as regards sticky residues during storage. If alkylate gasoline (Aspen) is used, stabilizers are unnecessary because this fuel is stable. However, you should avoid switching between regular and alkylate gasoline as sensitive rubber components can harden. Add stabilizer to the fuel in the tank or in the storage container. Always use the mixing ratios specified by the manufacturer of the stabilizer. Run the engine for at least 10 minutes after add in the stabilizer so that it reaches the carburetor. **DO NOT** empty the fuel tank and the carburetor if you have added stabilizer.

WARNING!

NEVER store an engine with fuel in the tank indoors or in poorly ventilated spaces where fuel vapor can come in contact with open flame, sparks or a pilot light such as in a boiler, hot water tank, clothing drier, etc. handle the fuel with caution. It is very flammable and careless use can cause serious damage to person and property. Drain the fuel into an approved container outdoors and far away from open flame. NEVER use gasoline for cleaning. Use a de-greaser and warm water instead.

SERVICE

When ordering spare parts, please specify the purchase year, model, type, and serial number. Always use genuine Parts. An annual check-up at an authorized service workshop is a good way to ensure that your machine performs its best the following season.

1. the paint to prevent rust.
2. Inspect the machine for worn or damaged parts and tighten any nuts or screws that may have become loose.

TRANSPORTATION AND STORAGE

Make sure that the area is clear of people, children and objects before transportation. Always be extra careful during transport and movement. Ensure that the product is well secured and that existing transport safety devices are mounted. Always place the load as low as possible. Respect the danger zones even during transport and movement. When lifting, don't go under the suspended load. Trailer used for transport should have functioning brakes.

Always store the tool or product in a dry place, preferably underneath a roof when not in use. Make sure that the equipment or product stands stable and not likely to tip over. Never let children play at the storage site. Bear in mind the risk of tipping over!

STORAGE

1. Change the engine oil; dispose of properly.
2. Open the fuel valve. Empty the fuel tank and the carburetor.
3. Close the fuel valve.
4. Remove the spark plug and pour about a tablespoon of engine oil in the cylinder. Turn over the engine so that the oil is evenly distributed and then refit the spark plug, put the engine in the compression phase where the triangle mark on the sleeve of the starter is aligned with the upper hole in the starter. Note: Compression phase occurs every second revolution.
5. Lubricate all grease nipples, joints and cables.
6. Store the machine in a clean, dry place and cover it for extra protection.
7. Cover the blade and cutters with a thin coat of oil to avoid rust

Two minute rule

The machine may be tipped backward or on its side to facilitate access for cleaning or service, but no longer than 2 minutes. If the machine is held in this position for too long, the engine can be damaged by gasoline draining into the crankcase. Should this happen, perform an extra oil change on the engine over a few revolutions with the starter handle before starting the engine again.

Cleaning and washing

Regular cleaning and washing will increase the machine's life span. Make it a habit to clean the machine directly after use, before the dirt sticks. Check before reusing that the fuel tank lid is properly in place to avoid getting water in the tank. Use caution when using high-pressure spray because warning decals, instruction signs and the engine can be damaged. Do not exceed 70 bar/1000 PSI water pressure when cleaning. Lubricate the machine after cleaning. This is particularly important if the machine is to be stored.

Lubricating Bearings

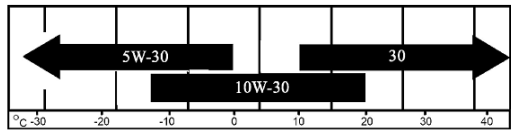
Cutting blade bearings should be greased after every 10 hours of operation. Lubricate two fittings (one on each cutting blade bearing).

NOTICE

Pump grease in slowly and carefully to prevent damage to the bearing seals. Use extreme caution when using a high pressure or high volume grease gun.

ENGINE OIL CHANGE

- When changing oil, be sure to use approved containers for oil. Old oil must be disposed properly in recycling center. Contact your municipality for more information.
- Ensure that the machine can not tip over.
- Pull out the dipstick.
- Place a pan under the engine and remove the oil plug.
- Empty the oil sump, reinstall the drain plug and tighten.
- Refill with new oil and check the level.
- Use lubricating oil SAE 30, check the level, add oil until the oil level is between the min and max



MAINTENANCE

DETAIL ACTION		EVERYDAY	After 20 hours, or the first month of operation	After 50h/ every 3rd month	After 100h/ every 6 month	After 100h/ once a year
Engine oil SAE 30	CHECK	X				
	Change		X		X	
Air filter	Check	X				
	Clean			X		X
	Replace					
Spark plug	Clean				X	
	Replace					X

SYMPTOM	CAUSE	ACTION
The engine don't start	<ul style="list-style-type: none"> Fuel valve closed. Fuel tank is empty Open choke valve Engine switch in OFF position. Contamination, water or ice in fuel system. Wrong spark plug 	<ul style="list-style-type: none"> Open the fuel valve. Check and fill up fuel Close choke valve Turn engine switch to ON Clean tank, sludge reservoir, fuel lines and carburetor fill the tank with fresh fuel. Check and replace
Engine is weak or runs unevenly	<ul style="list-style-type: none"> Clogged air filter. (Blue exhaust) (Voluminous blue-white exhaust) Tank filled with 2-cycle mixed oil. Tank filled with diesel. (Black exhaust) Choke left on. Clogged air filter. Carburetor problems. Ignition system: Wrong spark plug type. Buildup on electrodes. Short circuit. Faulty ignition unit. 	<ul style="list-style-type: none"> Clean or replace the air filter. Clean tank, sludge reservoir and empty carburetor. Fill the tank with proper fuel. Open choke valve. Clean or replace the air filter. Contact an authorized service Workshop Replace the spark plug. Check electrode gap and Clean or replace spark plug Contact an authorized service Workshop.
Belt coming off	<ul style="list-style-type: none"> Pulleys not aligned. Belt tension is insufficient 	<ul style="list-style-type: none"> Adjust pulley or belt tension.
The cutting wheel does not rotate	<ul style="list-style-type: none"> Engine speed is insufficient to activate the centrifugal clutch. Belt tension is insufficient. Clutch is worn 	<ul style="list-style-type: none"> Adjust the speed Adjust belt tension. Replace shoes and springs, and/or clutch bearings.
The cutting wheel continues to rotate.	<ul style="list-style-type: none"> Check that the throttle is disconnected. Check for damage on the throttle cable. Check that the throttle cable is properly mounted on the throttle valve. The engine speed is not under 1000 rpm, which is required to Disengage the centrifugal clutch. Inspect springs on clutch shoes. If tension on clutch shoes is not enough to pull shoes back, replace spring and clutch shoes. 	
The parking brake is slipping	<ul style="list-style-type: none"> Adjust the brake tension in the manner described in the operator's manual. Check for damage on the brake rod or lever. Check for wear on the brake pads. Replace as necessary. 	
The wheels have poor grip	<ul style="list-style-type: none"> Tire pressure is too low 	<ul style="list-style-type: none"> Check and fill up air recommended pressure: 1,3 bar

INSPECTION, CLEANING AND REPLACING THE SPARK PLUG

1. Disconnect the spark plug wire and remove the spark plug, use a spark plug wrench.
2. Clean the spark plug and measure the distance between the spark gap (distance between electrodes). The correct distance is between 0.7mm-0.8mm



3. Replace the spark plug.

When replacing with a new one after tightening; tighten an additional 1/2 turn, tighten by hand. When mounting the old spark plug, tighten an additional 1 / 8-1 / 4 turn.

DRIVE BELTS

The drive system of the stump machine is composed of a 9J Joined Narrow V-belt. The stump machine's V-belt tension should be checked daily.

Before beginning to check or adjust belt: shutdown the machine, be sure that all moving parts have come to a complete stop. Extreme caution must be used to avoid death or serious injury. Stay clear of belts, pulley, clutch and cutting blade when they are moving.

To adjust belt tension, loosen the 2 bolts behind clutch. Also loosen the 4 engine mounting bolts. Turn square head adjusting bolt on frame clockwise to tighten belt, counter clockwise to loosen belt. (Make sure to tighten all bolts after proper belt adjustment is achieved). To check belt tension, you should be able to depress the belt down about 1/4-3/8" (6 -10 mm) from the original position.

To extend belt life, proper tension must be maintained. A loose belt will cause excessive cutting blade slippage and belt failure. A belt that is too tight can cause bearing, shaft and belt failure.

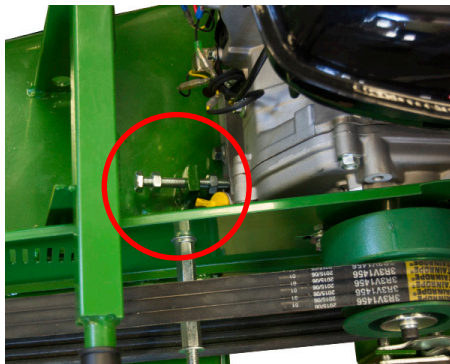
RECYCLING

Disposal of the product, the machine should be disassembled and transported to the municipality recycling station. Contact your municipality for further information.

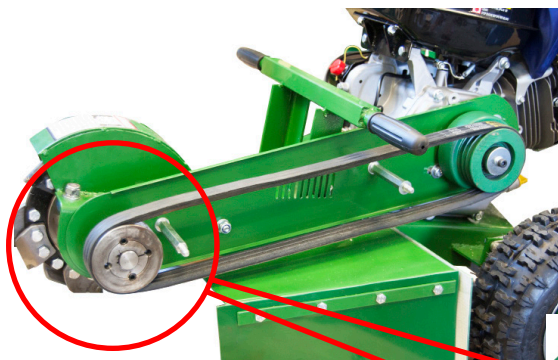


IMPORTANT!

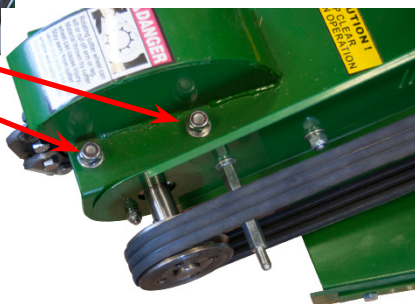
When replacing a belt or checking the belts before first operation of the machine: Make sure that the pulleys are aligned with each other. It is important that the belts are straight to prevent damage and wear to the centrifugal clutch and drive shaft.

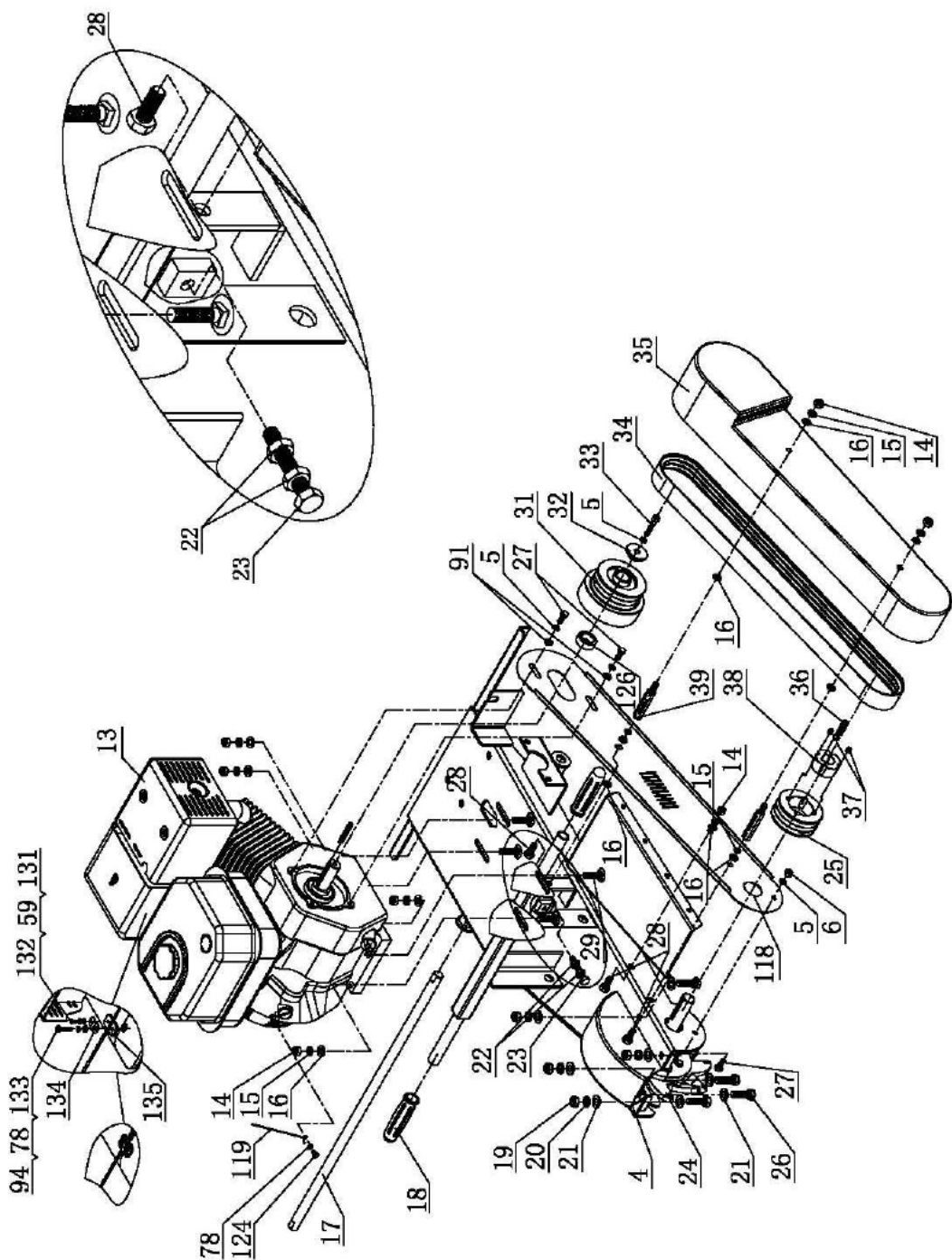


Adjustment of the position of the engine/upper pulley position: loosen the bolts adjust pulleys position and tighten.



Adjusting the lower pulley position: loosen the bolts adjust the wheel position and tighten.





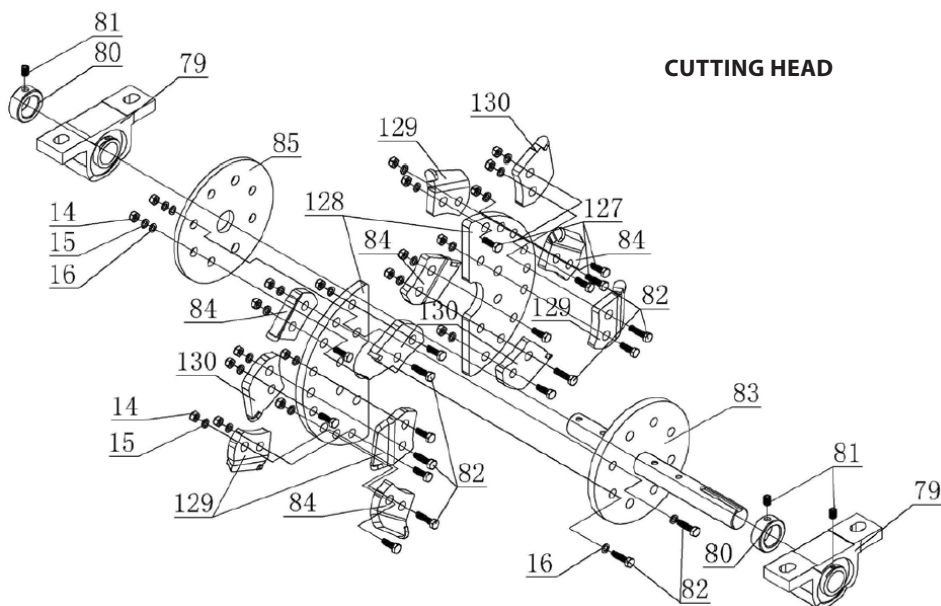
CHASSIS AND ENGINE ASSY.

No	Description	Qty
4	Frame	1
5	Spring Washer Ø8	4
6	Lock Nut Nylon M8	1
13	Engine	1
14	Lock Nut Nylon M10	7
15	Spring Washer Ø10	9
16	Flat Washer Ø10	12
17	Axle	1
18	Handle Cover	2
19	Lock Nut Nylon M12	4
20	Spring Washer Ø12	4
21	Flat Washer Ø12	8
22	Hex Nut M10	2
23	Hex Bolt M10x80	1
24	Blade And Shaft Assy.	1
25	Belt Pulley	1
26	Hex Bolt M12x40	4
27	Hex Bolt M8x20	3
28	Hex Bolt M10x25	3
29	Step Bolt M10x45	4
31	Centrifugal Clutch	1

No	Description	Qty
32	Axle Sleeve	1
33	"Hexagonal Screw M8x50"	1
34	9J Joined Narrow V-Belt	1
35	Outer Belt Guard	1
36	Flat Key 6x50	1
37	"Hexagon Screw M10x16"	2
38	Pulley Locker	1
39	Bolt	2
59	Spring Washer Ø5	1
78	Spring Washer Ø6	3
91	Large Washer Ø8	2
94	Flat Washer Ø6	1
118	Inner Belt Guard	1
119	Start Switch Assy.	1
124	Hex Bolt M6x12	1
126	Centrifugal Clutch Bush- ing	1
131	Flat Washer Ø5	1
132	Screw M5x10	1
133	Hex Bolt M6x30	1
134	Cover Plate	1
135	Press Plate	1

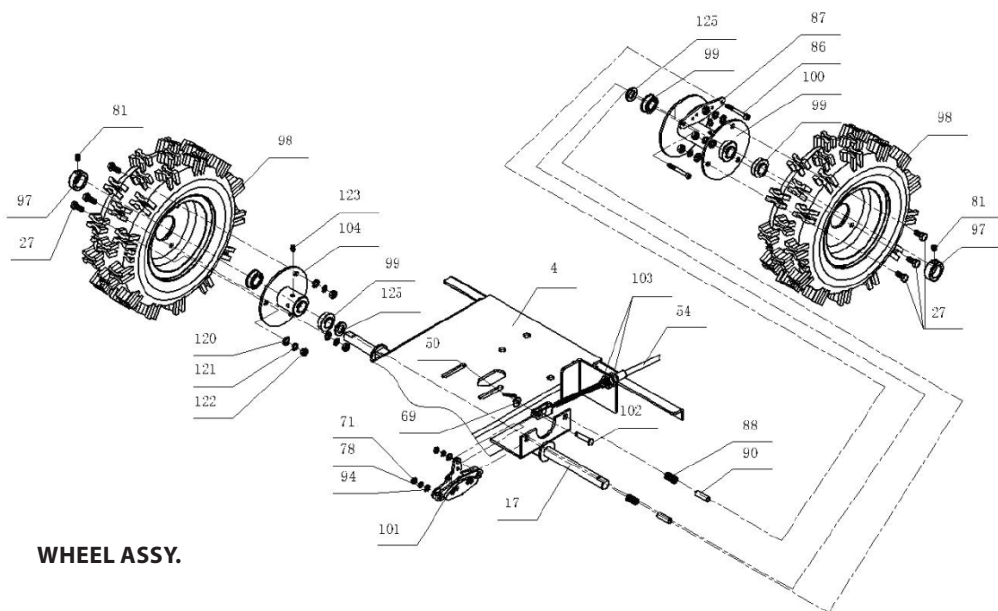
No	Description	Qty
4	Chassis Assy.	1
5	Spring Washer Ø8	4
6	Lock Nut Nylon M8	1
18	Handle Cover	2
19	Lock Nut Nylon M12	4
20	Spring Washer Ø12	4
30	Flat Washer Ø8	3
40	Lifting Handle	1
41	Spring Washer Ø4	2
42	Torsional Spring	1
43	Hex Nut Nylon M12	2
44	Lock Washer	2
45	Flat Washer Ø4	4
46	"Cross Head Screw M4x70"	2
47	Lifting Handle Assy.	1
48	Hex Bolt M8x65	2
49	Brake Cable	1
50	Cotter Ø2 x16	1
51	Handle Bolt A	1
52	Handle Bush	1
53	Hex Bolt M8x75	2
54	Brake Cable Assy.	1
55	Gasket	1
56	Hex Bolt M12x35	4

No	Description	Qty
57	"Cross Head Screw M5x12"	4
58	Pressure Plate	1
59	Spring Washer Ø5	2
60	Lock Nut Nylon M5	2
61	Pressure Plate	1
62	Step Bolt M6x25	1
63	"External Lock Washer Ø8"	1
64	Adjusting Handle B	1
65	Hex Bolt M6x45	2
66	Scale Plate Assy.	1
67	Nylon Washer	1
68	Adjusting Control Wire	1
69	Large Washer Ø6	1
70	" Lock Washer Ø6"	3
71	Lock Nut Nylon M6	3
72	Butterfly Nut M6	1
73	Spacer Bush	1
74	Tapping Screw Ø4 x18"	1
75	Adjusting Handle A	1
76	Handle Bar	1
77	Lock Nut Nylon M4	2
78	Spring Washer Ø6	2
109	Bush	1
119	Start Switch Assy.	1



TORQUE 81 Nm

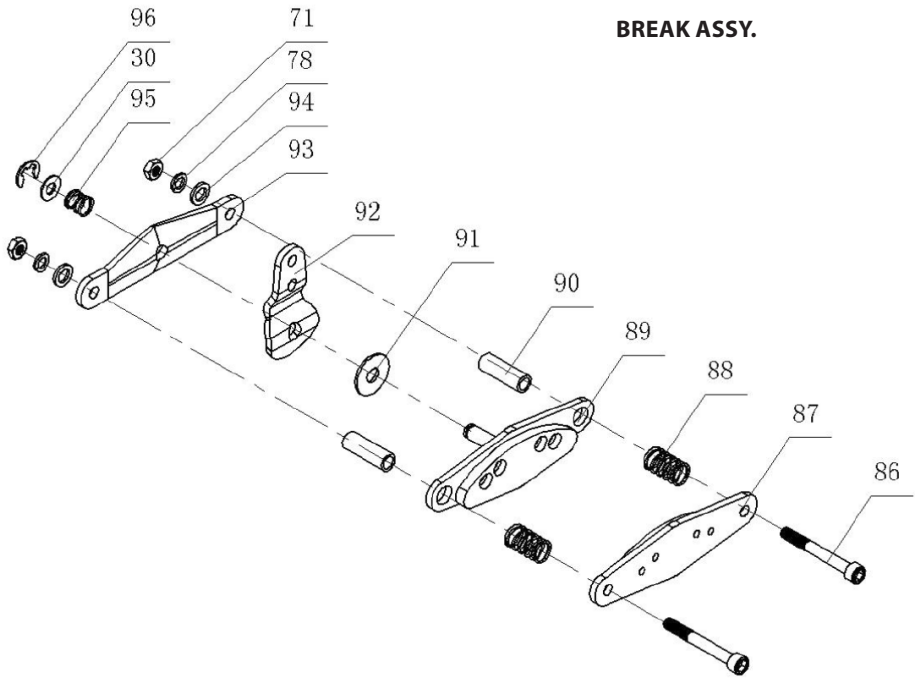
No	Description	Qty
14	Lock Nut Nylon M10	26
15	Spring Washer Ø10	26
16	Flat Washer Ø10	16
79	Bearing UCP205	2
80	Blade Fastness Set	2
81	"hexagon socket screw M6x8"	6
82	Hex Bolt M10x45	14
83	Shaft With Key	1
84	Trencher Blade A	4
85	Shaft Flange	1
127	HEX BOLT M10X35	12
128	Half Plate	2
129	Trencher Blade B	4
130	Trencher Blade C	4



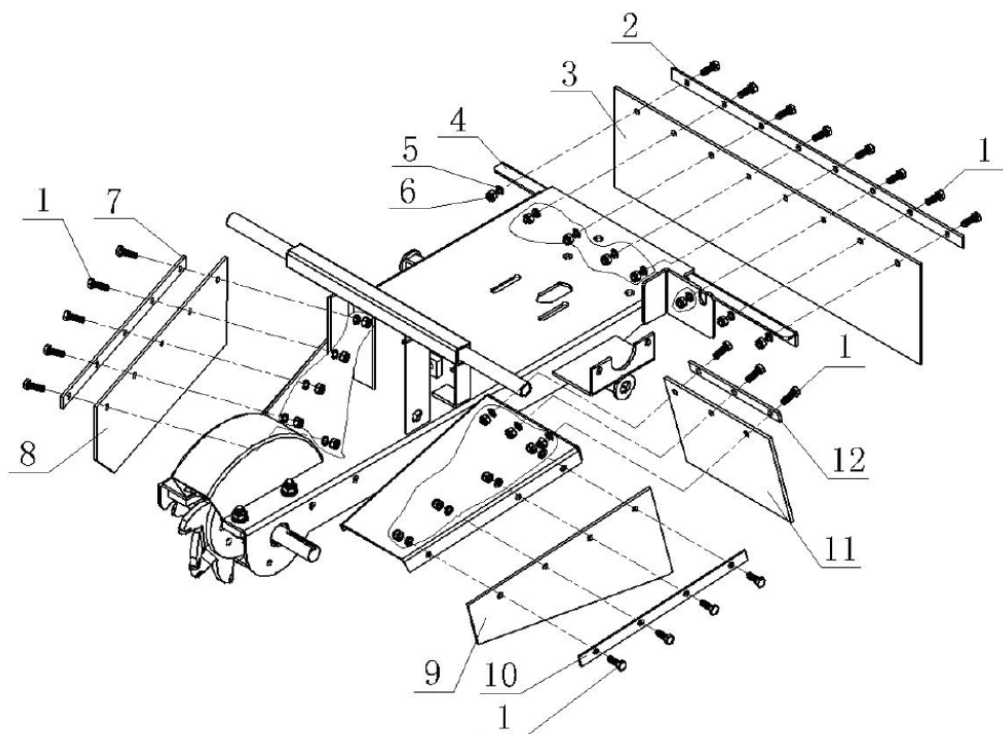
WHEEL ASSY.

No	Description	Qty
4	Chassis Assy.	1
17	Axle	1
27	Hex Bolt M8x20	6
50	Cotter Ø2 x16	1
54	Brake Cable Assy.	1
69	Large Washer Ø6	1
71	Lock Nut Nylon M6	2
78	Spring Washer Ø6	2
81	Hexagon Socket Screw M6x8	2
86	"Hexagonal Socket Screw M6x50"	2
87	Brake Mounting Plate Assy,	1
88	Spring A	2
90	Bushing	2
94	Flat Washer Ø6	2

No	Description	Qty
97	Axle Fastness Set	2
98	Wheel Assy.	2
99	Deep Groove Ball Bearing 6202	4
100	Bearing Block A Assy.	1
101	Brake Mounting Plate A Assy,	1
102	Brake Bolt	1
103	Hex Nut M12	2
104	Bearing Block B Assy.	1
120	Flat Washer Ø8	6
121	Spring Washer Ø8	6
122	Hex Nut M8	6
123	Oil Cup M6	2
125	Flat Washer Ø16	2

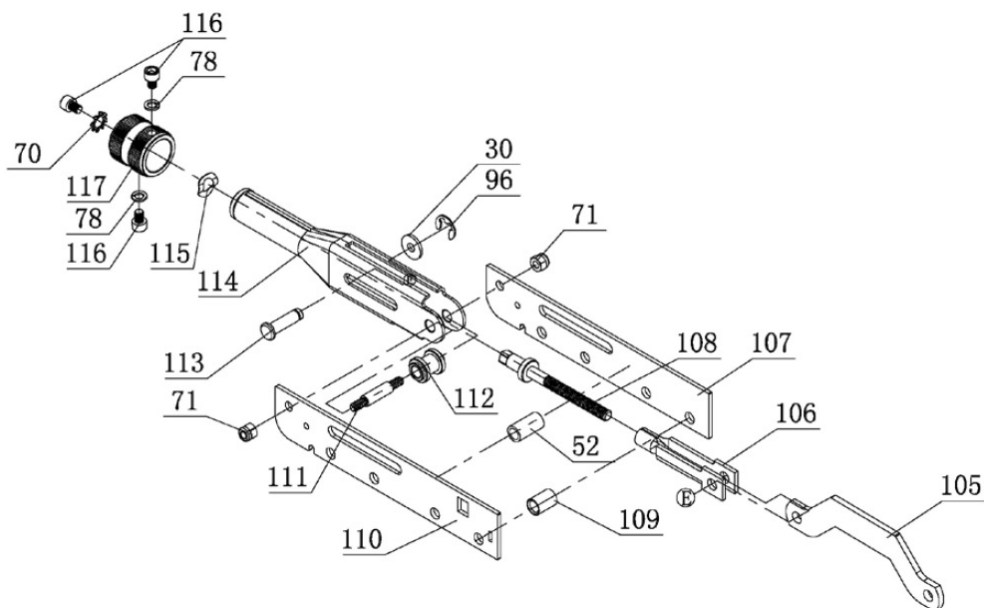
BREAK ASSY.

No	Description	Qty
30	Flat Washer Ø8	1
71	Lock Nut Nylon M6	2
78	Spring Washer Ø6	2
86	"Hexagonal Socket Head Cap Screw M6x50"	2
87	Brake Mounting Plate Assy,	1
88	Brake Spring A	2
89	"Brake Mounting Plate A Assy,"	1
90	Bush	2
91	Large Washer Ø8	1
92	Tie Plate	1
93	Adjusting Plate	1
94	Flat Washer Ø6	2
95	Brake Spring B	1
96	Split Washer Ø6-E	1



CHASSIS AND FLAPS ASSY.

No	Description	Qty
1	Hex Bolt M8x25	20
2	Rear Flap Support	1
3	Rear Flap	1
4	Chassis Assy.	1
5	Spring Washer Ø8	20
6	Lock Nut Nylon M8	20
7	Side Flap Support	1
8	Side Flap	1
9	Side A Flap	1
10	Side A Flap Support	1
11	Side B Flap	1
12	Side B Flap Support	1



BREAK HANDLE ASSY.

No	Description	Qty
30	Flat Washer Ø8	1
52	Handle Bush	1
70	"Lock Washer Ø6"	1
71	Lock Nut Nylon M6	2
78	Spring Washer Ø6	2
96	Split Washer Ø6-E	1
105	Tie Bar	1
106	Adjusting Hook Assy.	1
107	Tie Plate	1
108	Adjusting Bolt	1

No	Description	Qty
109	Bush	1
110	Tie Plate A	1
111	Tie Bar	1
112	Tie Bar A	1
113	Bolt	1
114	Handle Assy.	1
115	"Spring Lock Washers Ø10"	1
116	"Hexagonal Socket Screw M6x8"	3
117	Tiller Grip	1

We are grateful for your help pointing out any inaccuracies in the Kellfri product delivered to you. Before making a complaint read Kellfris general warranty and sales conditions in our catalog as well as the enclosed User's manual that comes with the machine.

Please fill in the details below and attach photo and other information in order to process your request.

Buyer:	Customer number:	
Adress:	Invoice number:	
E-mail:	Phone nr:	

When was the product delivered?	When was the product taken into operation?	Did the product functioned as it should upon the first operation?
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Defect product / part:

.....

Problem description:

.....

Describe the sequence of events:

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.....

Other:

.....

.....

Submit Complaint form and photo to:

Kellfri AB

Division of Services : Contact Kellfri retailer

Or e-mail service.

info@kellfri.se

Signature:	Date:
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KELLFRI AB

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Edition: 2014-01-01

WARRANTY TERMS AND CONDITIONS

Validity of the warranty - Kelfri's Warranty is valid 12 months from the date of purchase.

This warranty replaces - Compensation for spare parts after acknowledgment that the fault lies on the material or manufacturing defects.

This guarantee do not cover

- Labour costs
- Travel expenses
- Any modification that the buyer himself has/had made.
- Any consequential damages that occurred out of damage to the machine.
- Damage due to normal deterioration of the machine, inadequate: service, user inexperience or use of spare parts which are not original.
- Wear parts such as hoses, seals, oils, and mechanical belts

EG-FÖRSÄKRAN OM MASKINENS ÖVERENSTÄMMELSE, ORIGINAL

EC-DECLARATION OF CONFORMITY

According to 2006/42/EC, Annex 2A

Kelfri AB

Munkatorpsgratan 6

532 37 Skara, Sweden

Declares that the machine

Name: 27-SF20

Type: Stump grinder

Complies with all applicable provisions of the Machinery Directive 2006/42/EC.

Other equipment must meet the hardware requirements of the Directive.



Tina Baudtler, VD

Skara 2013-07-23

Kelfri AB is constantly working on further developing their products and therefore reserves the right to modify, among other things the design and appearance without notice.

Kelfri AB

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The logo for Kelfri AB, featuring the word "Kelfri" in a bold, blue, sans-serif font. A registered trademark symbol (®) is located at the top right of the letter "i".

Latest version 2015-09-30