



Kellfri[®]

37-SSATV130 SNOW BLOWER ATV



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

INTRODUCTION

Thank you for choosing a product from Kellfri AB. By following the general safety information, instruction manual and common sense you will get many years of enjoyable use of the product. Kellfri's tools and machines are aimed for farmers with high demands on functionality.

PRODUCT INFORMATION

Kellfri's Snow blower for ATVs/Quads with 106 cm working width has serrated studs that even cut through compacted snow and dispatch it to the rapidly rotating ejector wheel, which throws the snow out through the ejector chute up to 15 m in the direction selected. The snow blower is mounted with an adjustable bar that is bolted onto the rear tow bar. The drawbar goes under the machine back to the tow bar hitch and at the front the snow blower is supported by its own wheels. Winch (not included) is used to raise and lower the snow blower into position for use.

INTENDED USE

Only for clearing snow

TEKNICAL DATA	37-SSATV130
Working width	1 065 mm
Discharge chute	Rotatable 190 degrees
Maximum snow depth	545 mm
Throw	5-15 m
Transmission	Electric friction clutch
Fuel tank capacity	6L
Engine	13 hp 377cc - Electric start and pull starter
Warning light	standard
Height adjustable	Electric winches
Weight	145 kg

SAFETY INFORMATION

Before using the product, please read the safety information and instruction manual and understand its contents for your own and others' safety. Always keep the safety information and instruction manual easily accessible to the user of the product. Remember that it may be good for your own and others' safety to read the safety information every now and then. If the instructions manual is damaged or otherwise unusable, please contact and order a new one from: Your retailer



CAUTION!

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

The general safety instruction is also available from Kellfri's website: www.kellfri.co.uk

Do not use this equipment if you are feeling sick, tired or in influence of alcohol. Nor if you are under the influence of strong medications or drugs, suffering from strong depression or severe mental illness. Always follow the general traffic rules and regulations and the rules of the Animal Welfare Act. Persons under 15 years old and people with mental illness may not use these products.

Warning symbols identify important safety aspects in this manual to help you and others avoid hazards and accidents. When using the machine: Be extremely careful!



DANGER!

This symbol indicates that a serious accident will occur if the instructions in the manual are not followed. The accident leads to serious injury, possibly death or serious property damage.



Warning!

This symbol indicates that an accident will occur if the instructions in the manual are not followed. The accident leading to serious injury or property damage.



CAUTION!

This symbol indicates that an accident may occur if the regulations are not followed. The accident results in personal injury or property damage.

N.B!

N.B! indicates the potential of failure if the regulation is not followed.



READ THE INSTRUCTION MANUAL CAREFULLY BEFORE USING THE MACHINE! LEARN AND REMEMBER THE CORRECT USE AND HOW TO SHUTDOWN THE MACHINE



PRODUCT SAFETY

- Exhaust fumes contain toxic substances, therefore never use the machine in bad ventilated areas. The machine is not for indoor use. Always fill the machine with fuel outdoors
- Risk of burn injuries in contact with hot surfaces such as the exhaust system.
- Run new machine at low speed the first few hours, not high speed and full load.
- Avoid getting petrol/oil on the skin. If this occurs, rinse thoroughly with water.
- Avoid inhalation of petrol vapor.
- Do not have fuel or other explosive substances closely where the machine is being used
- Refuelling is not allowed when the engine is running.
- Never stick your hands or feet under the machine without stopping it.
- Never leave the machine with the engine running. Turn off the engine whenever you leave the equipment, even for a short moment.
- Only the one may be in the vicinity of the machine during work.
- Do not use the machine without all guards correctly fitted.
- Do not run the engine in an enclosed area, exhaust fumes contain carbon monoxide, which is deadly if inhaled.
- Clear working area of harmful objects that can get thrown away such as large stones, branches, etc. before starting to work.
- Do not try to remove things that got stuck in the impeller whilst the engine is running. Ensure that the engine has stopped and that the moving parts of the machine have come to fully stop before any action is taken.
- Do not use the machine if excessive vibration occurs, stop the machine immediately and check for any damage. Excessive vibration suggests something is wrong with the machine
- Do not change the engine settings unless it is told by the engine manufacturer
- Never allow anyone to ride on the machine!
- Do not exceed the allowed maximum speed.
- Do not use the machine on a bumpy or steepy road. Be careful especially when driving backwards.
- Familiarized yourself with the controls and how they work. Make sure to learn how to stop the machine and how to connect and disconnect it.

IN CASE OF 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 accessible during all work, maintenance and service.








PERSONAL PROTECTIVE EQUIPMENT

Wear suitable clothing and footwear. Do not wear loose clothing or jewelry when working with the equipment. Remember to put up long hair when working with equipment that rotates. Wear protective gloves during maintenance. Hearing protection should be used when operating the machine. Wear protective boots with anti-slip soles.

Eye protection should be used when using the machine on a road with gravel. Use suitable winter clothes when working with the machine.

WARNING LABELS

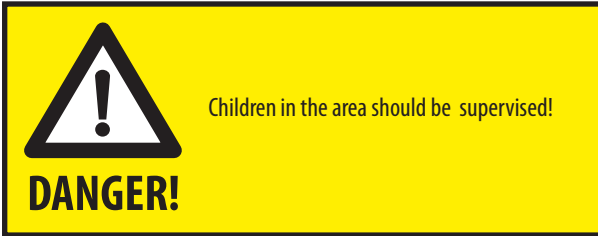
Make sure that the warning labels are always visible, clean the warning labels if necessary. Do not wash with high pressure washer directly on the warning label. If any part of the decal is worn or label becomes frayed or otherwise unreadable, order new decals.

SYMBOL	Explanation
	Warning! Thrown objects! Risk zone 15 m
	Warning! Rotating parts of the machine
	Caution! Keep off the machine!
	Caution! Make sure that all rotating parts had come to fully stop before any action is taken on the machine.
	WARNING! Rotating parts! Risk for serious injuries!
	The machine is CE-marked
	Use proper protection whilst working with 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.

Always work alone with equipment designed for single - purpose tools/products. Never have junk/debris lying in your work area. Have workspaces clean. Always respect the risk zone.



BEFORE USE

Read the safety information and operating instructions carefully. Be sure that you understand the safety information, operating instructions and warning labels. Use common sense when using the machine and use appropriate personal protective equipment Always check the performance and the machine combination that are use.It's highly important these matches in a satisfactory manner. This is to ensure the product or the function and most important yours and others safety.

Visually inspect the equipment or product before using it. Fix or replace damaged or worn parts immediately to reduce the risk of injury. Lubricate moving parts and check that all nuts and bolts are tightened.

Learn and remember correct working method. Beginners should keep a low speed until the person has learned how the machine works. The user / customer is responsible to handle the situation correctly. Do not use the machine if it is experienced to be dangerous for the user.. Read the tractor's manual before connecting the machine.

- Check the engine oil level, refill if necessary.
- Fill with petrol. Use clean petrol, not oil mixed.
- Adjust the machine in proper working height.
- Check the work area before starting to work and remove the underlying objects that can get caught in the machine or ejected from it.
- Never use the machine without the safety devices are correctly installed.
- Be careful when working near slopes. Never attempt to drive the machine on a hill with a slope greater than 20 degrees.
- Ensure that bystanders are outside the danger zone. Do not direct discharge chute towards people in the vicinity of the machine
- Check the location where you will use the machine, remove lying objects/debris that can get caught in the machine's impeller.
- Check that the warning light is working

STARTING THE MACHINE

1. Turn the key to "ON"
2. Open the choke and petrol tap.
3. Pull the starter handle slowly until the gear goes in, then pull the starter cord quickly. Do not pull the starter cord completely and quickly then let go when the cord is pulled out. Repeat this step until the engine starts.
4. Electric Start: Stop the key in the ignition and turn clockwise to the START



OPERATION

Only people who understand the safety information and operating instructions to operate this equipment or product. Be alert and cautious while working with the tool or product, and use only the tool or product in the manner described in the 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. Respect machine's danger zone. All manouvers occurs from the driver's seat.

- Always adapt your speed to the road and traffic conditions, avoid sudden turns on uneven terrain and on slopes.
- Be extremely careful when driving on gravel roads
- Make sure the work area is well lit when working in the dark, the machine should not be use in poor visibility conditions.
- If large vibrations occur during operation, turn off the machine immediately and check thefor any damage! Make sure that the machine's moving parts had stop before you perform any measurement. Rectify the fault before the machine is re-used
- NEVER allow children or inexperienced person to operate the machine!
- NEVER allow anyone to ride on the machine!
- Adjust the working angle by turning the adjusting lever - clockwise or anticlockwise
- If you hit an unknown object, stop the machine immediately and check if any damage occured. Ensure the impeller has stopped spinning and the engine is off before doing anything to the machine.
- Do not drive the machine on slopes with a gradient greater than 20 degrees
- Never point the ejector tube against the windows, buildings, people or vehicles.
- Always be careful when you're driving backwards. Always check that there are no obstacles behind you before you drive.
- Always turn off the blower during transport
- If the machine fails to eject snow, stop the machine and check that discharge chute is not blocked



TO AVOID ACCIDENTS AND MORE TRACTION WITH IMPELLER

Do not drive faster than 3 km / h with the rotating impeller on the ground

Drive up to 10km / h when the machine is in transport position

Do not drive on slopes more than 20 degrees

Turning off the machine correctly:

1. Set the throttle on the lowest speed.
2. Turn ignition key to OFF position.
3. Close the fuel tap.

IMPORTANT: Brush off snow from the machine after use. If the snow melts, ice formation in the machine can cause problems during the next use.

DISCONNECT THE MACHINE

- Take all possible precautions when leaving the machine unattended or after work. Lower the machine down on the ground
- Disconnect the drive to the machine
- Set ATV's parking brake and remove the key from the ignition.



Warning!

For safety, this product should only be used in the manner described in this manual. The user is responsible for the instruction to be read through and followed.

MAINTENANCE AND SERVICE

Make sure the tool is stable and not likely to tip over during maintenance and service. Replace damaged and worn parts immediately to reduce the risk of damage. Perform maintenance, servicing and inspections as recommended. Use only parts with equivalent performance to reduce the risk of damage and failure. Never carry anything on the machine while the engine is running. Make sure the machine is turned off and can not start by pulling the spark plug cap before maintenance / servicing.

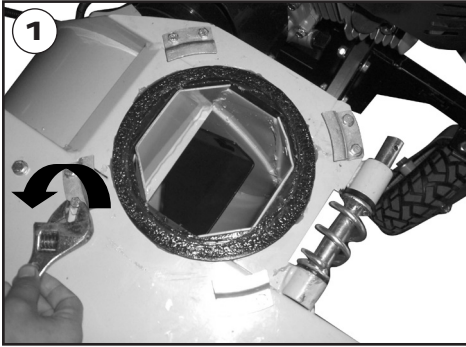
- Make sure the engine has cooled down before starting work.
- Perform maintenance and servicing in a well-ventilated place.
- Smoking or open flames are prohibited in the vicinity of the machine. The gasoline can be easily ignited and cause injury.
- Check all bolts and nuts are tightened after maintenance and service. For correct torque see the table for metric bolts. Always test the machine before work is started.
- Do not spray water directly on the muffler, exhaust system and filters, water can creep inside the engine and cause serious damage.
- Never use dirty oil / fuel, this can lead to serious damage to the engine.
- Check the engine air filter regularly and clean or replace as necessary.
- For spare parts: Contact Kellfri Service

OIL CHANGE

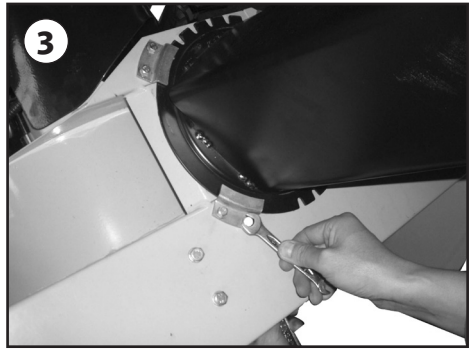
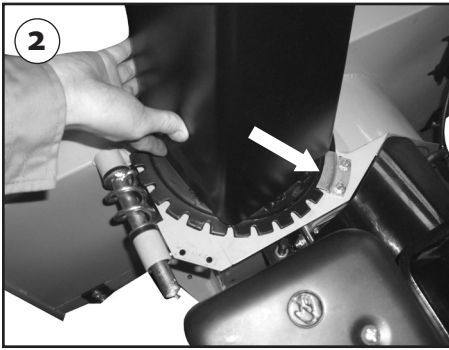
- When changing oil, be sure to only use approved containers for oil. Old oil must be disposed properly in the recycling station. Contact your municipality for more information.
- Ensure that the machine can not tip over.
- Pull out the dipstick.
- Place a pan under the engine and remove the oil plug.
- Empty the oil, reinstall the drain plug and tighten.
- Refill with new oil and check the level.
- Use transmission oil SAE 80W-90 to the gearbox and clutch housing, check the level, add oil until the oil level is between the min. and max
- The oil may need to be changed more often when operating in dusty environments

Assembly instruction ATV 130

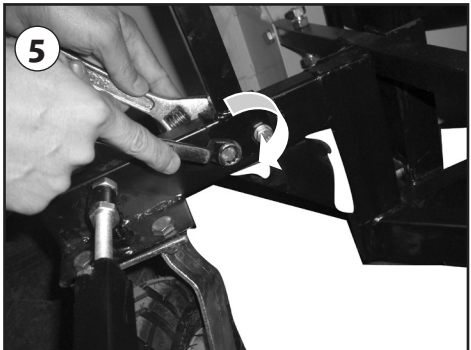
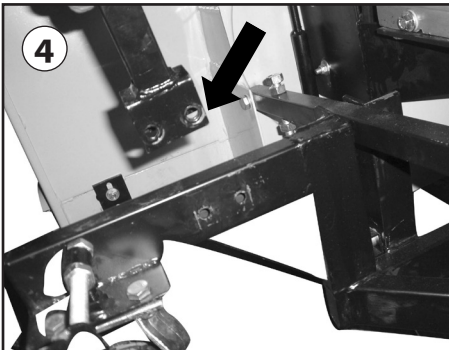
1. Loosen the bolts (6 pcs - M6) and remove the clamps (fig. 1)



2. Install the discharge chute on the flange (fig.2), then reinstall the clamps, tighten the bolts (fig.3)

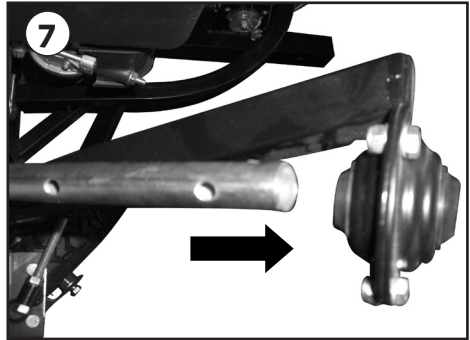
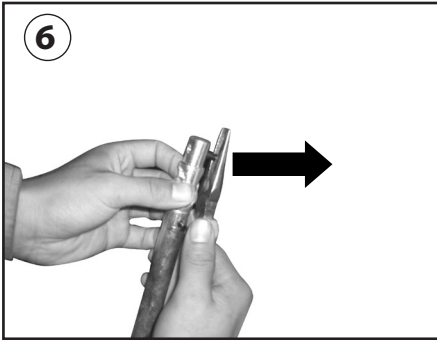


3. Fit the bracket (fig.4) for the control lever, tighten the bolts (fig.5)

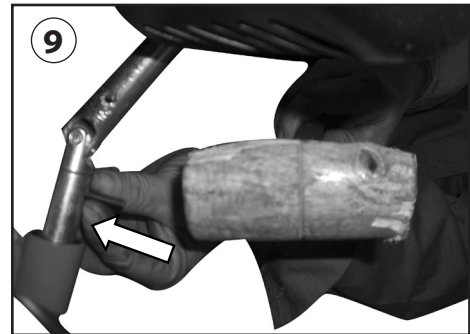
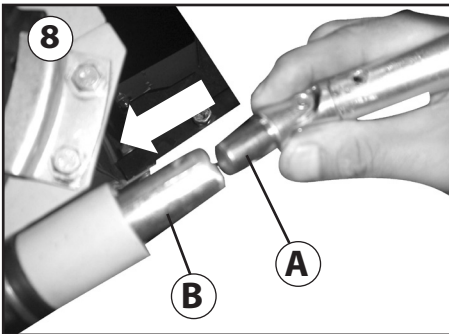


Assembly instruction ATV 130

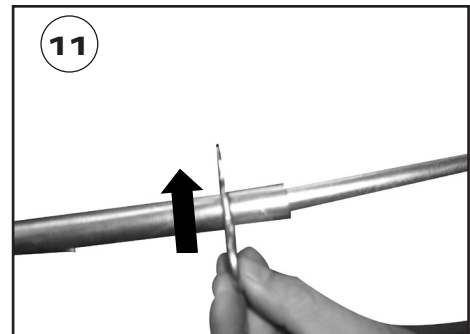
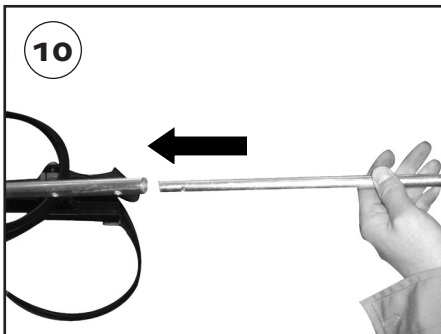
4. Remove spring pin from the shaft (fig.6)



5. Installation of Adjustment lever - the lower part (B): Fit rubber ring through the shaft (fig.7). Then mount the hinged portion of the shaft (fig.8), refit the locking pin (fig.9)

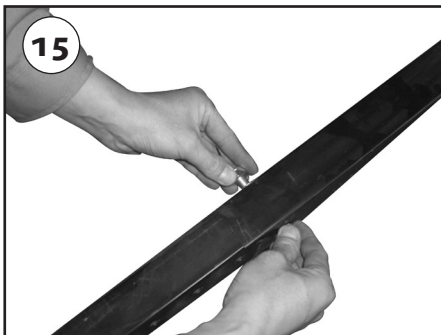
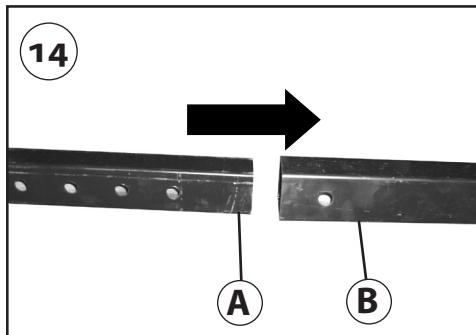
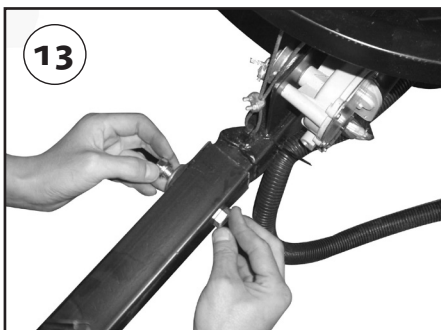
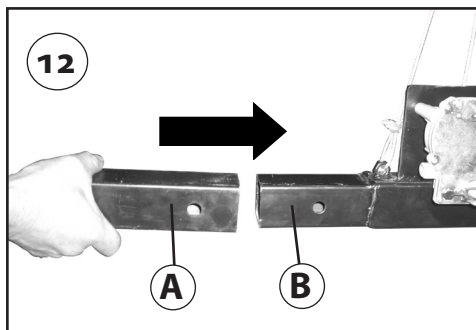


6. Installation of Adjustment lever (A): Install the second section (Fig.10) of the adjusting lever, secure with pins (Fig.11)

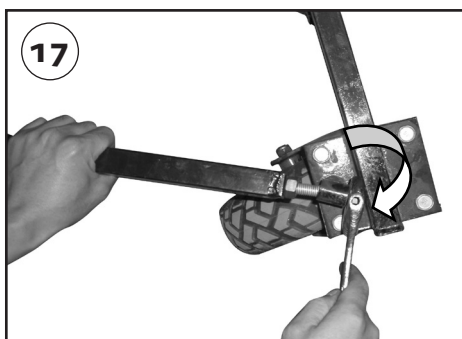
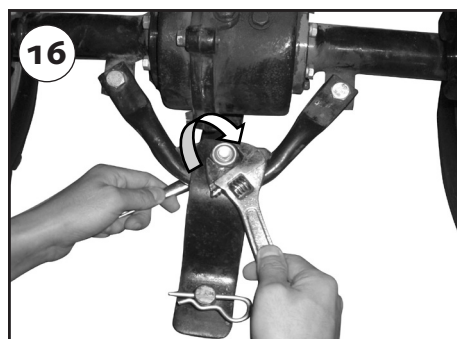


Assembly instruction ATV 130

7. Mount the drawbar (A) of the machine connection (B), secure with a bolt (M12) and tighten (Fig.13)
8. Then fit together the drawbar second part (A) - (Fig. 14), secure with bolt (M12) and tighten (Fig.15)

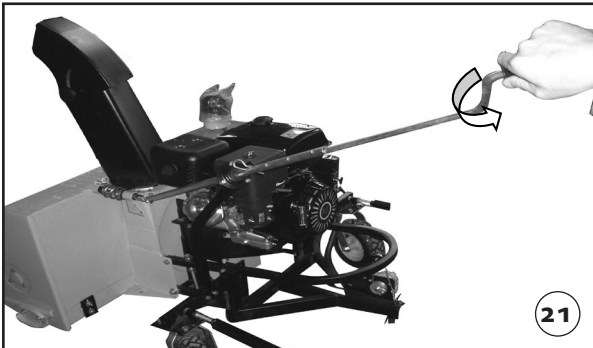
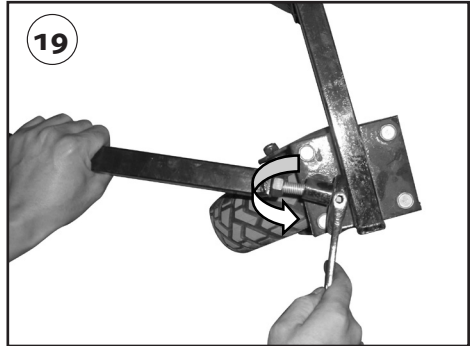
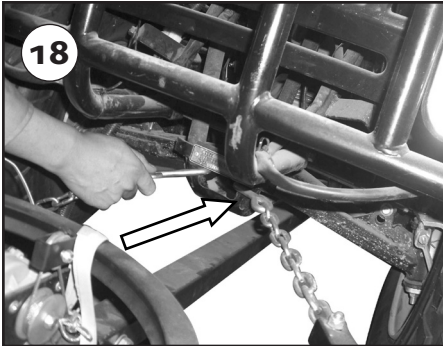


9. Connect the snow blower to the towing vehicle, adjust the length of the drawbar and secure with bolt (M16) - (bild16)
10. Loosen the adjustment bolt on the wheel (Figure 17)



Assembly instruction ATV 130

11. Mount the chain on the lower part of ATV chassis (Fig.18). Adjust the adjustment bolt until the chain is sufficiently tensioned (Fig.19), do the same procedure on the other side.
NOTE! adjust the chains so that the machine is centered in front of the ATV / towing vehicles. Check that all the bolts are tightened
12. Connect the power cables to the towing vehicle. Check the engine oil, top up if necessary and fill with petrol before starting the machine.



Adjustment of the chute angle:

Turn the adjustment lever clockwise - the discharge chute then turns clockwise and vice versa (Figure 21)

ERROR	CAUSE	MEASURE
Engine don't start	• -----	• Read the engine manual (separate manual)
The engines runs uneven	• -----	• Read the engine manual (separate manual)
The machine don't discharge snow	• The drive shaft is not moving	• Kontrollera axeln, byt vid behov
	• Drive is not working	• Turn of the engine and check if the drive is working
	• The chute is clogged	• Check that the discharge chute is not clogged. Use the cleaning tool to clean the chute.
	• The belt is loose	• Check the belt and tension or replace if necessary
The machine is hard to manuver	• Low tire pressure	• Check the tire pressure and the wheels. Pump up or replace if necessary
Excessive vibration	• A component is broken or the belt is too loose	• Turn off the machine and check if any components are broken, tension the belt or replace if necessary

MAINTENANCE

PART DETAIL	MEASURE	EVERYDAY	After 20h or the first month in use	After 50h/ every 3rd month	After 100h/ every 6th month	After 100h/ once a year
Engine oil	Check	X				
	Change		X		X	
Air filter	Check	X				
	Clean			X		
	Replace					X
Spark plug: F7RTC	Clean				X	
	Replace					X

INSPECTION, CLEANING AND REPLACING THE SPARK PLUG

1. Disconnect the spark plug cap 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 tighten an additional 1/2 turn after tightening, tighten by hand.
When reinstalling the old spark plug, tighten an extra 1 / 8-1 / 4 turn.

TRANSPORTATION AND STORAGE

Make sure there are no people, children and foreign objects around the area before transporting the machine. Always take an extra caution during the transport. Ensure that the product is well secured and that transport brackets are mounted. Always place the load as low as possible. Respect the danger zone even during transport. When lifting the equipment, never go underneath suspended loads. Trailer used for transport should have working brakes.

Always store the machine in a dry place preferably underneath a cover when not in use. Ensure that the product is stable and not likely to tip over. Never let children play where the machine is being stored. Always keep in mind the risk of tipping!

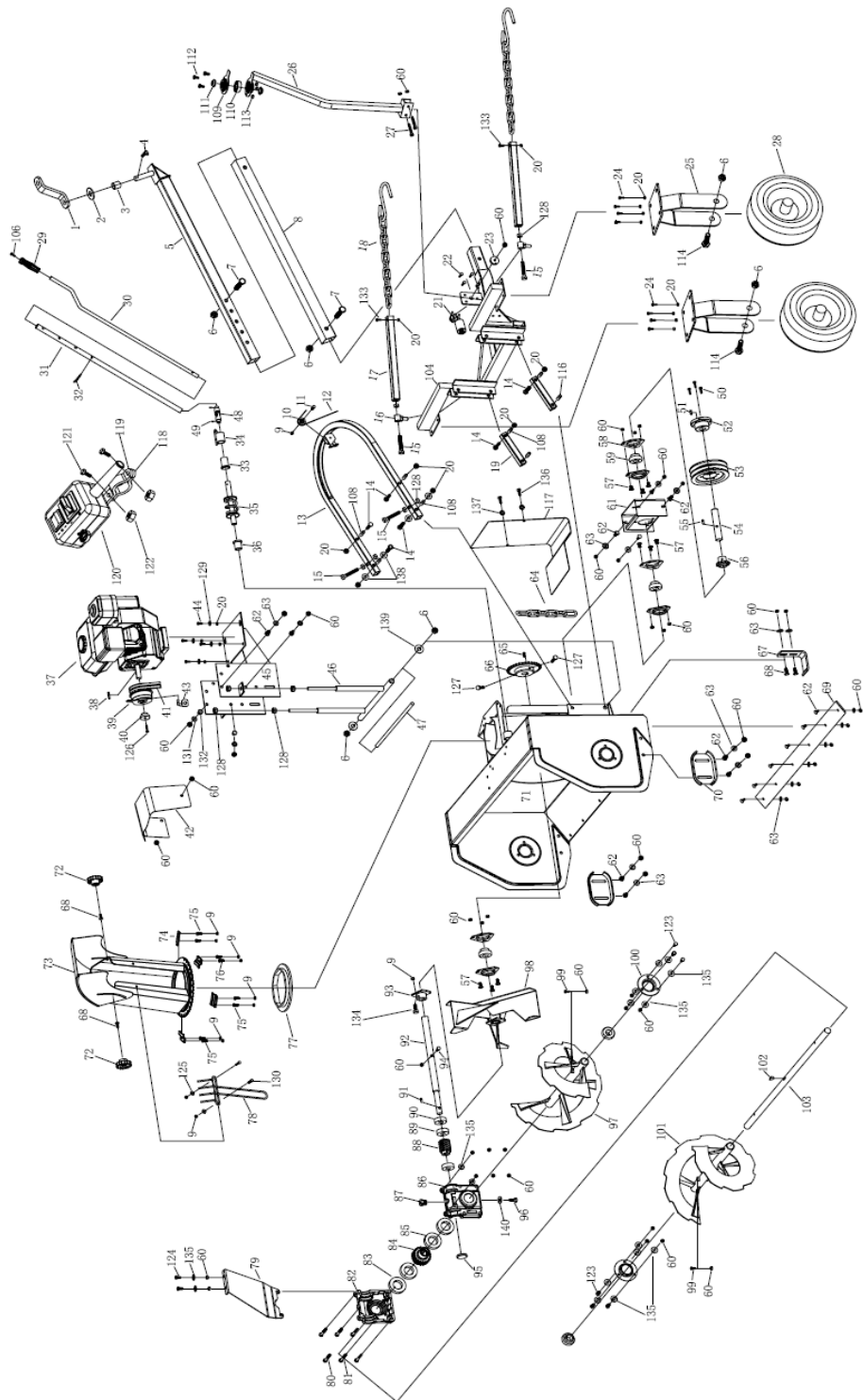
- Make sure the fuel valve is closed to prevent fuel leakage during transport.
- It is important that the machine is cleaned and serviced before storing.

RECYCLING

When disposing of the tool be disassembled and transported to the municipality destined place. Contact your local authority for further information.

TIGHTENING TORQUES - METRIC BOLTS

BULT SPECIFICATION	4.8		5.8		8.8		10.9		12.9	
DIAMETER X TREAD	kN	Nm	kN	Nm	kN	Nm	kN	Nm	kN	Nm
6 X 1	4.9	5.5	6.1	6.8	9.4	10.4	13.8	15.3	16.1	17.9
8 X 1	9.9	14.5	12.2	18.0	18.9	27	28	40	32	47
10 X 1.25	15.8	28.0	19.5	35	30	53	43	78	51	91
10 X 1.5	14.5	26.6	18	33	27	50	40	73	47	86
12 X 1.25	23.8	50	29	62	45	95	65	139	77	163
12 X 1.75	21.3	46	26	56	40	86	50	127	69	148
14 X 1.5	32	79	40	96	61	150	90	220	105	257
14 X 2	29	73	36	90	55	137	80	201	94	135
16 X 1.5	43	121	54	150	82	229	121	336	141	393
16 X 2	40	113	50	141	76	214	111	314	130	369
18 X 1.5	57	178	70	220	110	345	157	491	184	575
18 X 2.5	49	157	60	194	95	306	135	435	158	509
20 X 1.5	72	248	89	307	140	482	199	687	233	804
20 X 2.5	63	222	77	275	122	432	173	615	203	719
22 X 1.5	88	337	109	416	172	654	245	932	266	1090
22 X 2.5	78	305	97	376	152	502	216	843	253	987
24 X 2	101	420	125	519	196	814	280	1160	237	1360
24 X 3	90	383	112	474	175	744	250	1080	292	1240
27 X 2	131	615	162	760	225	1200	363	1700	425	1990
27 X 3	119	568	147	703	230	1100	328	1570	384	1840
30 X 2	165	850	204	1060	321	1670	457	2370	535	2380
30 X 3.5	144	772	178	995	280	1500	300	2130	467	2500



NR	BENÄMNING	
1	Joint plate	
2	Large Washer	Ø20
3	Washer	
4	Bolt	
5	Rectangular tube subassembly	
6	Lock nut	M12
7	Hexagonal bolt	M12X70
8	Connection rectangular tube	
9	Lock nut	M6
10	Pulley	
11	Hexagonal bolt	M6X25
12	Steel wire	φ3.5
13	Pulley bracket	
14	Hexagonal bolt	M10X50
15	Weld bolt	M12X140
16	Round tube subassembly	
17	25 rectangular tube subassembly	
18	Iron chain	
19	Iron profile	
20	Lock nut	M10
21	Engine	
22	Cross Bolt	M6X16
23	Motor pulley	
24	Hexagonal bolt	M10X20
25	Wheel bracket	
26	Rocker knighthed	
27	Hexagonal bolt	M8X40
28	Wheel	
29	Rocker sheath	
30	Rocker A	
31	Rocker B	
32	Pin	Ø3.5
33	Supporting sleeve A	
34	Supporting sleeve B	
35	Rocker helix	

NR	BENÄMNING	
36	Supporting sleeve C	
37	Gasoline Engine	
38	Key	6X6X40
39	Clutch	
40	Clutch capping	
41	Belt	A-914
42	Belt housing	
43	Wiring scotch tape	
44	Hexagonal bolt	M10X45
45	Gasoline Engine bracket	
46	Belt adjust bracket	
47	Screw	M12X450
48	Gimbal	
49	Spring pin	Ø5x25
50	Hexagonal bolt	M6X35
51	Square key	6X6X35
52	Iron casting	
53	Belt pulley	
54	Sprocket shaft	
55	Spring pin	Ø8X32
56	Minor sprocket	
57	Step bolt	M8X16
58	Bearing Cover B	
59	Spherical bearing	SB205-16
60	Lock nut	M8
61	Sprocket bracket	
62	Step bolt	M8X20
63	Plain Washer	Ø8
64	Chain	
65	Square key	6X6X35
66	Major sprocket	
67	Slide plate	
68	Step bolt	M8X25
69	Snow cleaning blade	
70	Sliding Stick	

NR	BENÄMNING	
71	Steel Cover	
72	Locking handwheel	
73	Snow ejection chute	
74	Chute wafer	
75	Hexagonal bolt	M6X12
76	Hexagonal bolt	M6X16
77	Snow ejection seat	
78	Discharge pole suit	
79	Auger stiffening plate	
80	Hexagonal bolt	M8X35
81	Hexagonal bolt	M8X65
82	Left worm gear cast	
83	Oil Seal 1	40-55-8
84	Worm gear	
85	Bearing	6008
86	Right worm gear cast	
87	Steam drain	
88	Worm	
89	Bearing	30204
90	Oil Seal 2	25-40-7
91	Spring pin	φ8X32
92	Worm shaft	
93	Securing fitting	
94	Socket screw	M8X50
95	Sealing end cover	
96	Hexagon bolt (Closely-pitched)	M10X10
97	Left Auger	
98	Snow ejection wheel	
99	Auger bolt	(M8X58)
100	Bearing gland A	
101	Right Auger	
102	Semicircular key	6X9X22
103	Auger shaft	
104	King truss	
106	Slotted sphere column-head bolt	

NR	BENÄMNING	
107	Indicator light	
108	Copper sheathing	
109	Bearing gland C	
110	Self-aligning ball bearing	1204
111	Rubber Cap	
112	Cross recessed pan head screw	M5X12
113	Lock nut	M5
114	Hexagonal bolt	M12X130
115	Washer 2	
116	Copper sheathing 2	
117	Shroud	
118	Tabletting	
119	Tabletting 2	
120	Switch subassembly	
121	Cross recessed pan head screw	M5X16
122	Lock nut	M5
123	Hexagonal bolt	M8X16
124	Hexagonal bolt	M8X16
125	Large Washer	Ø6
126	Hexagonal bolt	M8X45
127	Socket screw	M8X35
128	Nut	M12
129	Plain Washer	Ø10
130	Hexagonal bolt	M6×20
131	Special Washer	Ø8
132	Step bolt	M8×25
133	Hexagonal bolt	M10×40
134	Hexagonal bolt	M6×20
135	Plain Washer	Ø8
136	Hexagonal bolt	M6×12
137	Plain Washer	Ø6
138	Large Washer	Ø10
139	Large Washer	Ø12
140	Wood Washer	Ø10

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: 37-SSATV130

Type: Snow blower ATV

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

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.

CUSTOMER SERVICE

You are always welcome to give your feedbacks, reviews or ask us about our tools and products.

KELFRI AB

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Kelfri®

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