



# **Kellfri®**

## **35-185 35-275 PASTURE TOPPER**



**READ THIS MANUAL CAREFULLY 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.

### PRODUCTINFORMATION

Kellfri's Pasture Topper, the specialist for large and small grasslands, is designed for efficient cutting and topping of grass and fields in mixed terrain. Sturdy square frame profile provides durability and strength even under tough conditions, giving you a dependable machine that fits tractors between 30 - 50 hp. A flexible and robust grassland topper with 4 bolted, specially shaped blades that fold out of the way of small and large stones. The highly efficient bevel gearbox with alloyed steel gears ensures sustainable and safe power transmission. Equipped with height adjustable skids and guards that protect against any ejected stones. The machine is supplied with a PTO shaft as standard, 3-point linkage cat. 2 and transmission oil.

### INTENDED USE

The equipment is intended for cutting and trimming of grass and green spaces.

TECHNICAL DATA	35-185	35-275
Working width	1850 mm	2750 mm
Weight	310 kg	445 kg
Rotor	2 st	3 st
Knives	4 st	6 st
Carry beams	2 st	2 st
PTO-shaft	Standard	Standard
Carrying bar	Quick Coupling	Quick Coupling
Power requirement	30-50 hk	50-60 hk
Speed	6-12 km/h	6-12 km/h
Gear oil 80W-90	1,5 L	1,5 L
RPM (PTO)	540	540

## BASIC 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:

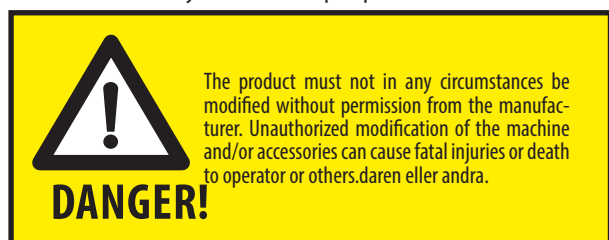
Kellfri AB, Munkatorpsgratan 6, 532 37 SKARA

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 follow the general traffic regulations and regulations and the rules of the Animal Welfare Act.

Persons under 15 years old and people with mental illness may not use these equipments.



**Warning symbols identify important safety aspects in this manual to help you and others avoid hazards and accidents. When using the machine: Take extreme caution!**



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



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



This symbol indicates that an accident could occur if the directions is not followed. The accident resulting in personal injury or property damage.



NB! indicates the potential for the breakdown of the regulations is not followed.

*When using the machine in a company, the employer has the responsibility to ensure the user of the machine has theoretical and practical knowledge of the machine and the operation is done safely. Follow the country's Health and Safety regulation. For more information, contact your Health and Safety Executive.*

## PRODUCT SAFETY INFORMATION

Kellfris pasture topper is designed to operate efficiently at 540 rpm. Make sure the PTO is set to 540 rpm. The machine may only be used to cut the grass. In addition, the machine should only be used with a suitable tractor (see product specifications) and operated by a suitable PTO shaft. All other use is strictly prohibited.

The user of the machine should understand the contents of this manual before use, service and installation of equipment to the tractor and all other relevant measures. Never wear jewelry, loose clothing, ties, scarves, belts, unbuttoned jackets that can get caught in moving parts.

Always wear approved clothing that complies with the provisions of accident prevention purposes, such as non-slip shoes, hearing protection, goggles and gloves. Wear a jacket with reflective stickers on the equipment used near public roads.

Contact your dealer, health authority or the nearest equivalent authority for information about the current safety regulations and special provisions to guarantee the personal security



Always disengage the PTO shaft, Turn off the tractor engine and apply the parking brake before adjustment is performed on the machine.



Never put your hands or feet under the machine without stopping the implement and the tractor engine. The rotors may continue to rotate for up to 1 minute after the PTO shaft have been disconnected

- Never leave the equipment with the tractor engine running. Turn off the engine and apply the parking brake when you leave the piece of equipment, even for a short while.
- Never leave the gear retracted. The hydraulics can lose pressure and cause the implement to fall down.
- Make sure that all guards are fitted correctly and cannot come loose.
- The PTO shaft must be protected throughout its length. Make sure to anchor the safety chain well.
- Only you who is driving the tractor shall be in the vicinity of the machine during work. No one is allowed to stand underneath a suspended load
- Check before driving that no rocks are sticking up on the field, or lying objects that can be thrown out while operating.

**WORKSTATION:** The driver must remain in the driver's seat during the the entire operation. If the operator need to leave the tractor, the PTO must be disengaged, the tractor engine shut off and the parking handbrake must be applied.



NEVER RUN THE HYDRAULICS WHEN THE TRACTOR IS TURNED OFF

### **What to consider when operating a machine with the PTO shaft**

The transmission gearbox is protected by both the drive shaft and the shear bolt. All protection should be effective and in good condition. If protections condition is poor or worn, the protection should be replaced before implement is used.



If the PTO shaft is not properly protected, this can cause death because it can catch parts of the body or clothing and cause life-threatening injuries.

Make sure the safety chain is properly anchored to the PTO-shaft and that the PTO shaft is protected over its entire length. Ensure that PTO shaft spins easily inside the protective tube. Hold the spline groove clean and well lubricated so that the drive shaft can be connected easily.

Read PTO shaft manual adjustment and use of PTO shaft.



**Warning!**

Never use a equipment or product with defect safety equipment.








### **INCASE 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 accesable during all work, maintenance and service.

## 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
	Read the instruction manual! Before starting the operation. Caution! Before maintenance, service, connection and disconnection of the machine, the tractor engine must be switched off and the ignition key removed.
	Warning! Rotating PTO! Rotating Blades
	Risk zone 25 m. Warning ejection! Keep distance!
	NEVER allow anyone to be on the machine! The machine is designed for solitary work
	Prohibition to be on the machine Warning! Risk of crushing behind the tractor when connecting and disconnecting the implement. No person is allowed nearby when connecting and disconnecting the machine.
	Warning! Accident risk for children
	The equipment is CE-marked



## PERSONAL PROTECTION

Always wear suitable clothing and footwear. Do not wear loose clothing or jewelry when using the machine. Remember to put up long hair when operating rotating machines. Wear protective gloves, to prevent risking burns on contact with hot surfaces such as exhaust system, and to avoid oil and gasoline on the skin. Hearing protection should be used when the engine is running.



## SURROUNDINGS

Make sure your working area is clear from people, children and objects before installing and using the machine. Risk of serious injuries can occur during operation.

Take an extra caution when children are in the area where the equipment/ product is being use or stored. Check the area for low hanging electrical wires. Be careful when working on slopes and near ditches.

Always work alone with single - purpose equipments/products. Never have junk lying in your area. Keep working areas clean. Always respect the risk zone.



Children in the area should be supervised.

**Danger!**

## BEFORE USE

Read the safety information and instruction manual carefully. Be sure you understand the safety measures, instruction manual and warning labels. Use common sense when operating the machine and use appropriate personal protective equipment.

Always check the performance and the machine combination that are used. 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. Do visual inspection of equipment or product before use. Fix or replace damaged or worn parts immediately to reduce the risk of injury. Lubricate moving parts and check that all screw-nuts and bolts are tightened.

Learn and remember the correct working methods. Beginners should always keep a low speed, use extreme caution before routine 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.

Read the tractor's manual before connecting machine.



## BEFORE USE

- Check and tighten all nuts and bolts on the machine!
- Check the oil level in the gear box, fill if necessary.
- Check V-belt tension and adjust if necessary.
- Check that the flails are not defect, replace if necessary.



## CHECK AND FILLING OF OIL IN THE GEAR BOX

- The gear box has a filler plug, the level plug and drain plug.
- **Check:** Unscrew the level plug (hexagon socket) and check the level, fill if necessary
- **Fill:** Loosen filling plug and level plug. Fill until the oil is level with the level plug about 1.5L
- **Drain:** when changing the oil: loosen the drain plug. Tip: fit the tube into the hole and drain the oil into a container.



**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.

## RISKS AND HAZARDS OF USE OF MOWING MACHINE

### Risk of crushing

Bystanders may be injured when the machine is lowered to the cutting position. The machine has crushing points around the hinge areas and between the three-point hitch mount and the main body.

### Rotating blades

All persons will be at risk of injury if they stick out their hands or feet under the machine when it is lifted from the ground and the blades are rotating.

### Risk of pinching or risk of trapping body parts

This risk is common in transmission devices such as belt drives, gears and rollers. Ensure that all guards are fitted correctly.

### Risk during disengaging of the machine

The heavier the rotating part is, the longer it will continue to rotate after the drive has been switched off. This feature is called "free-wheeling". Rotating blades and other components, such as drive shafts, etc. will continue to spin after the drive has been disconnected. Damages:

- When the operator releases the equipment, and try to clean or adjust the machine before the components have stopped rotating.
- When the shear bolt in the protective device in the power take breaks and rotors still spinning while the PTO has stopped. Operator's awareness is the key to safety around rotating parts. Do not raise the machine while the blades are rotating.

### Risk of ejecting objects

Machines that mows throws out material while driving. Foreign objects such as rocks, sticks and other debris can get into the machine and ejected with tremendous speed. Cover the sides and the front prevents these objects to be thrown out but it does not always guarantee that the guards catch everything that is thrown out.



Bystanders or animals that stand in the way of the projected object can be seriously damaged. Never bystanders within the vicinity of the machine. Respect the machine's danger zone. **Danger zone 15m!**

### Noise

Please note that the machine is normally used outdoors and that the position of the operator is in the driving seat of the tractor. It is advisable to read the regulations specified in the tractor manual and maintenance instructions.

The sound pressure level exceeds 70 dB during operation. Hearing protection should be used while driving.

## **Accidents involving slips and falls**

Accidents involving slips and falls often happens as the result of:

- Slippery surface
- Uneven steps and platforms

The potential for slip-and-fall accidents can be significantly reduced by using good judgment. All unprotected rotating machinery is a potential for accidents. Damage usually occurs when loose clothing or long hair caught and wrapped around rotating parts such as transmission shafts or drive shafts on the machine. Make sure all guards are fitted.

## **Drive safely on public roads**

### **Drive safe on public roads**

Always follow traffic safety on public roads and follow the rules applies for driving tractor with towed equipment gear on public road.

Make sure reflectors, warning and / or warning flag that indicates protruding equipment is mounted on the machine or tractor. These indicators must be installed properly and must be visible and easily seen by the driver of the second vehicle.

Spectators must not lean on or climb on the machine during transport or during work.

NEVER allow anyone to ride on the machine!

The maximum transport speed should not exceed 20km /h

## **USE**

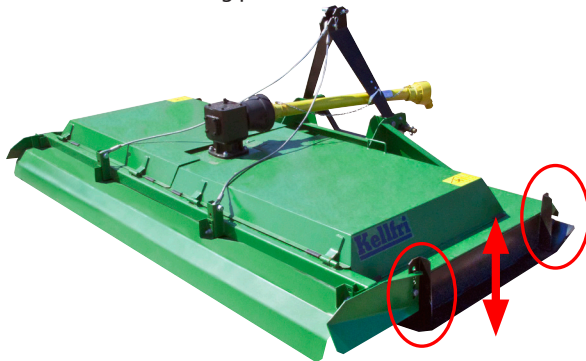
Only people who understand the safety information and instructions in this manual may operate the equipment. Be alert and careful when working with the machine and only use the equipment or product in the manner described in this manual. When working with equipment that has moving parts, there is always 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 equipments that are defined as single purpose equipments. Never overload the implement. Respect the equipment's danger zone.

## **Cutting**

- The rotating blades can forcibly strike loose stones from the ground. It is therefore important that you who are working with the machine ensures that no one is near the machine and the tractor when operating.
- The pasture toppers' drive system has a protective covers and shields that prevent soil and stones to be thrown around the machine and protects the operator.
- When cutting high grass, it sometimes happens that the grass wraps around the rotor and blades. Please be observant when noise is heard from the machine or vibration occurs. Turn off the tractor, disengage the machine and check that the blades rotate freely. IMPORTANT! Make sure that the rotors have stopped rotating before lifting the machine when checking the blades. Wait a few minutes to be sure that the blades have stopped spinning.

### Adjusting the cutting height

- To get a smooth ride and allow high speed and variable cutting height, The pasture topper is resting on two adjustable beams during the operation that can be easily adjusted to the desired cutting height.
- The two beams have several holes in the mounting brackets. When you want to adjust the cutting height - lift up the pasture topper and move the mounting screws into the desired height
- When cutting the entire beam should be resting on the ground, to get the best and most consistent cutting performance.



### Coupling

- Connect the machine to the tractor's rear three-point hitch.
- Connecting PTO-shaft. Anchor the chain well.
- Ready for use.

### After use

- Parking is not allowed with the implement above ground, but is done with the implement resting on the ground.
- Rinse the implement if necessary.

### TRANSPORT AND STORING

Make sure the area is clear of people, children and objects prior to transportation. Always be extra careful during transport and movement. Ensure that the equipment or product is well anchored and that existing transport safety devices are installed. Always place the load as low as possible. Respect the risk zone even in the transport and movement. When lifting, never stand under a suspended load. Carts used to transport should have functioning brakes.

Always keep the equipment or product in a dry place, preferably under a cover when not in use. Make sure that the equipment or product is stable and not likely to tip over. Never let children play at the storage site. Keep in mind the risk of tipping!

## MAINTENANCE AND SERVICE

Make sure the implement is 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 spare parts with equivalent performance to reduce the risk of damage and failure. All repairs and connections with electricity must be performed by an authorized person.

Make sure that all bolts and nuts are tightened after maintenance and service. Always test the machine before work is started.



**NB!** Check the oil level and lubricate lubrication points on a regular basis!

## SERVICE INTERVALS / MAINTENANCE

- Check the oil level before each run.
- Change the oil regularly at an interval of about 100 hours.

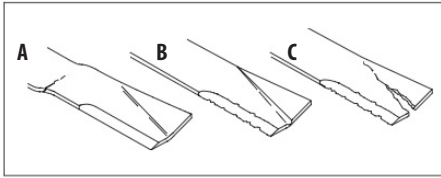
Place the machine as leveled as possible, check the gear oil level, fill if necessary with 80W-90 gear oil through the oil filler plug specified. Check the correct level in the oil level plug as shown in the figure below.



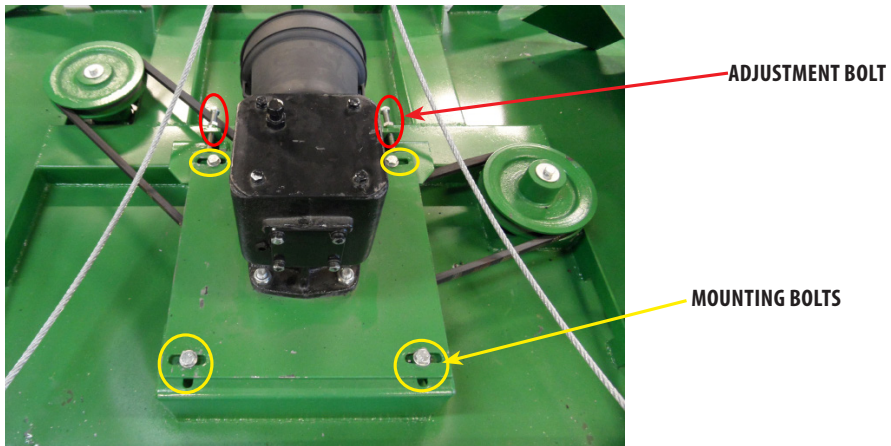
## CHECK AND FILLING OF OIL IN THE GEAR BOX

- The gear box has a filler plug, the level plug and drain plug.
- **Check:** Unscrew the level plug (hexagon socket) and check the level, fill if necessary
- **Fill:** Loosen filling plug and level plug. Fill until the oil is level with the level plug about 1.5L
- **Drain:** When changing the oil: loosen the drain plug. Tip: fit the tube into the hole and drain the oil into a container.

After every 50h of operation or every time the rotors are removed from the machine, the blade must be checked. Check the blades carefully to ensure they are in good condition, bent (A), worn (B) or (C) cracked blade must be replaced



**CHECK AND TIGHTEN THE BELTS PERIODICALLY.  
NEW MACHINE CONTROLLED AND TIGHTEN THE STRAPS AFTER 2 HOURS DRIVING**



#### **ADJUSTING BELT**

1. Remove the protective covers.
2. Release the mounting bolts (see picture), then adjust the adjustment bolts until the belts are tensioned enough.

SERVICE	INTERVAL	
Choppers	Before each run	Replace any defective flails. Sharp flails yields better results. When replacing bolts tighten properly.
	While driving	Listen for noises
	After each run	Check
Gearbox	Before each run	Check level Oil type: Gear oil 80W-90 Quantity: 1.5L
	50 hours of operation	First oil change
	100 hours of operation or once a year	Change oil
Rotor	20 hours of operation	Lubrication
Belts	Before each run	Belt tension. At the pressure belt should be moved 20 mm.
Implement	After each run	Flush away the soil and grass with water

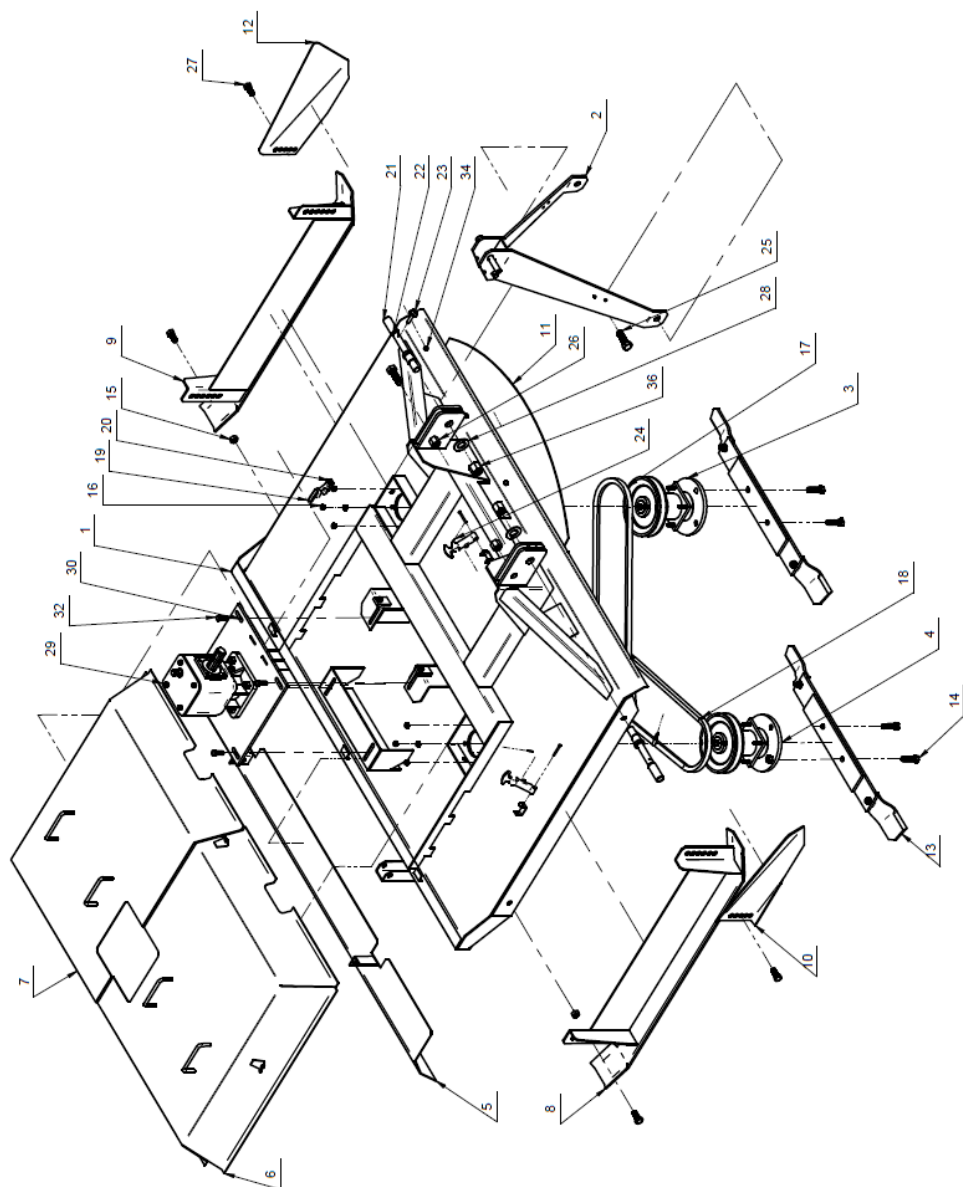
## SPARE PARTS

R35-185.001	Knife
R35-185.003	Nut for knife blade
R35-185.002	Blade bolt M12
R35-185.004	Knife arm
R35-185.005	Stabilizer

Problem	Measure
Vertical trimmer cuts unevenly or poorly	Check that the flails are undamaged and secured properly. Adjust the support roller and make sure it is correctly attached. Check and tighten any belts
Cut sound changes	Check roller. Check the tension of drive belts. Check flails.
Vibrations	Check flails.

## RECYCLING

Disposal of the product, disassemble and transport to the municipality's recycling station. Contact your local authority for further information.



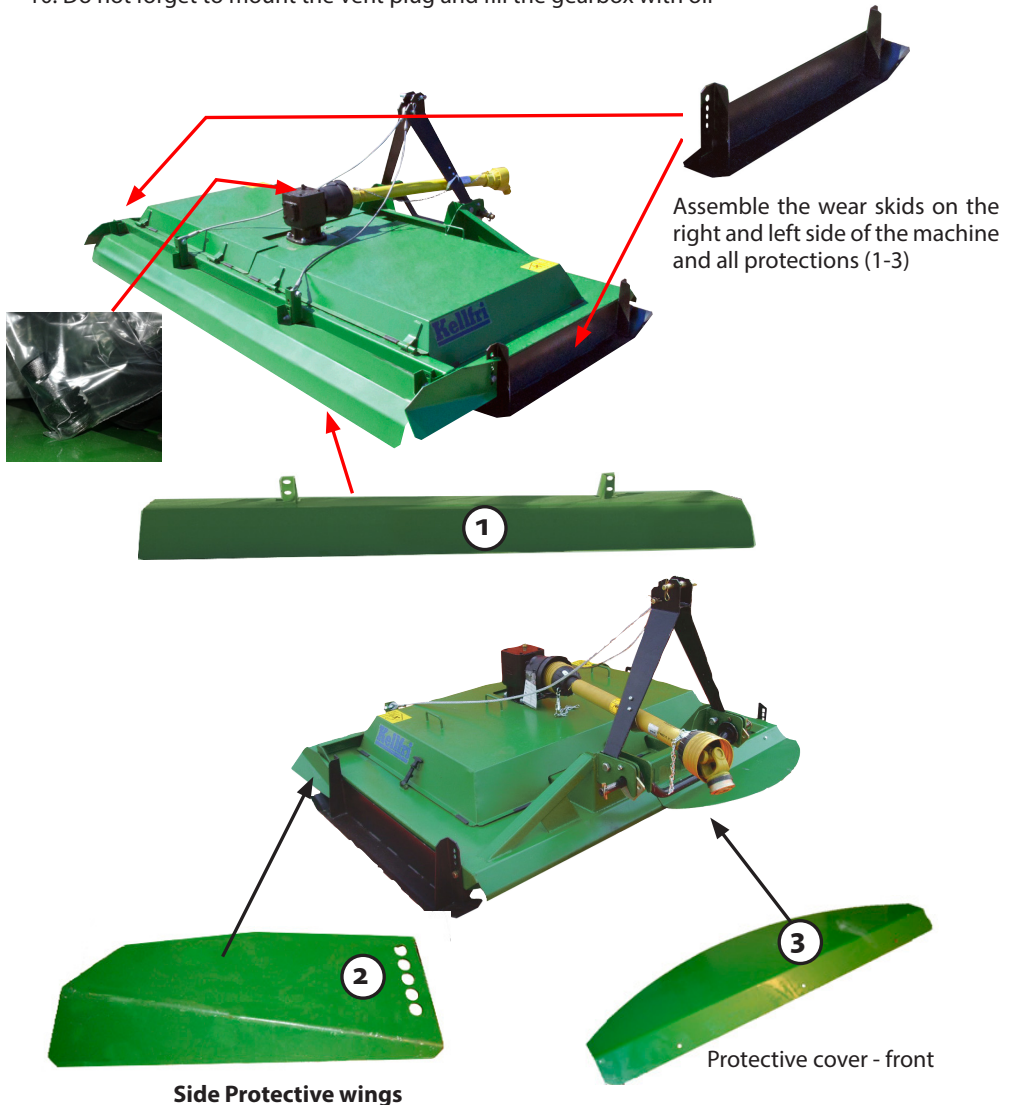


<b>NO.</b>	<b>Description</b>	<b>QTY.</b>
1	Chassis	1
2	3-point linkage	1
3	Rotor with pulley - left	1
4	Rotor with belt - right	1
5	Protective cover grass catcher	1
6	Protective cover - left	1
7	Protective Cover - right	1
8	Wear skids - left	1
9	Wear skids - right	1
10	Adjustment plate left	1
11	Plate Cover - front	1
12	Adjustment plate - right	1
13	Knife	2
14	Bolt M16x55	4
15	Nut M16	8
16	Nut M10	8
17	Belt Ld / 22x1778	1
18	Belt Ld / 22x1500	1

<b>NO.</b>	<b>Description</b>	<b>QTY.</b>
19	Attachment	3
20	Fittings	3
21	Sleeve	2
22	Shaft	2
23	Pin 10	2
24	Split pin 1,5x16	3
25	Bolt M20x60	2
26	Nut M20	2
27	Hex bolt M16x35	4
28	Washer 24	2
29	Bevel gear	1
30	Washer 12	8
31	Nut M12	4
32	Bolt M12x35	4
33	Washer 8	3
34	Bolt M8x16	3
35	Nut M8	3
36	Lock Nut M24	2

## ASSEMBLY

1. Open the protective cover of the pasture topper and collect loose parts.
2. Install 3-point linkage
3. Connect the pasture topper to the tractor three-point linkage
4. Tighten stabilization cables.
5. Connect the switch to the PTO shaft.
6. M the ejection guard back.
7. Install the side protective wing on the side
8. Install protective cover in front.
9. Check the belt tension.
10. Do not forget to mount the vent plug and fill the gearbox with oil



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.

<b>Buyer:</b>	<b>Customer number:</b>
<b>Adress:</b>	<b>Invoice number:</b>
<b>E-mail:</b>	<b>Phone nr:</b>

<b>When was the product delivered?</b>	<b>When was the product taken into operation?</b>	<b>Did the product functioned as it should upon the first operation?</b>
--	---	--

**Defect product / part:**

**Problem description:**

**Describe the sequence of events:**

**Other:**

*Submit Complaint form and photo to:*

*Kellfri AB*

*Division of Services : Contact Kellfri retailer*

*Or e-mail service.*

*info@kellfri.se*

<b>Signature:</b>	<b>Date:</b>
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## 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 due to 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: 35-185, 35-275

Type: Pasture topper

Complies with all applicable provisions of the Machinery Directive 2006/42/EC.  
Other equipment must meet the hardware requirements of the Directive.

Tina Baudtler, CEO 2015-09-08

*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 further notice.*

## CUSTOMER SERVICE

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

Kelfri AB

Telefon: +46 (0)511 - 242 50

Fax: +46 (0)511 - 168 33

E-post: [info@kelfri.se](mailto:info@kelfri.se)

**Kelfri®**