Forage unloading wagon UM 8000

User manual and spare parts

Edition	2025
Revised	01.01.2025
Language	ENG

Original user manual

Warranty

This Underhaug product is guaranteed against manufacturing and material defects for one year. Components not produced by Underhaug, such as electrical and hydraulic equipment, power take-off shafts, and tires, are covered according to the original manufacturer's warranty terms.

The following components have limited warranty terms due to their function: tires, skirts, blade tips, breaker pins, fuses, hydraulic seals in pumps, motors, valves, cylinders, etc., as found on new machines. Deterioration due to wear and tear during use is considered normal for these parts. Therefore, the warranty for these parts is limited to manufacturing defects such as breakage, deviations in workmanship, transport damage, etc., found on a new machine.

If damage is expected to be covered by the product warranty, the owner or the owner's representative must inform the dealer when parts and/or repair work are requested. Warranty claims must be reported within the warranty period. The dealer must complete a claim form for each warranty case and send it to Underhaug's sales company/importer by the 10th of the month following the damage report.

The damaged parts must be marked with the claim form number and stored for up to 6 months so that Underhaug's sales company/importer can inspect the parts.

Since the use of Underhaug products occurs outside of the manufacturer's control, we can only guarantee product quality, not performance or any consequential damages.

The warranty may be voided if: a) non-original spare parts are used or the product is repaired or modified without Underhaug's approval. b) The manufacturer's usage and service instructions have not been followed. c) The machine is used for purposes other than what it was designed for.

The warranty does not cover damage due to wear and tear.

Public safety regulations require the manufacturer of this machine to carefully assess safety during proper use of this machine type. Therefore, Underhaug and our importer/sales company are not responsible for the function of components not shown in the spare parts catalogue for this product.

Underhaug reserves the right to make design changes without obligation for previously delivered machines.

Contents

Safety

Before operating the machine
Before operating, adjusting, or repairing the machine, the user, repairer, and owner must familiarize themselves with the safety instructions provided in this manual (Fig 1). Be attentive and cautious when working with agricultural machinery. Read and take note of the safety instructions in this manual.

Safety at work is your responsibility

General safety instructions

Exercise caution when other people or animals are nearby

Never start the machine when people or animals are close to the machine and tractor. Never stand between the tractor wheels and the machine (Fig 2).

Be aware of regulations concerning the operation of agricultural machinery by minors.

Using the machine

The machine should only be used for its intended purpose.

Use personal protective equipment

Do not wear loose clothing that could get caught in moving parts of the machine. Use an approved mask in dusty working conditions (Fig 3).

Be aware of the dangers of high noise levels. Some tractor-implement-combinations may under certain conditions produce noise levels above 85 dB, even inside soundproofed cabs. In such cases, hearing protection must be used. Keep the tractor's windows and doors closed to reduce the noise level around the driver

Ensure proper tractor compatibility

The tractor's weight must match the machine's maximum working weight. Follow applicable public regulations (Fig 4).

Verify that the correct PTO gear ratio is connected. A machine designed for 540 RPM must never be connected to a tractor with a 1000 RPM. PTO engaged the machine's standard. PTO speed is indicated on a label near the power transmission system.

Important safety symbol

Pay special attention to this symbol. It indicates a safety hazard and outlines precautions to avoid accidents.

This symbol may appear throughout this manual and on warning labels on the machine. They are there for your safety and must be noted.

Connecting the tractor and machine

Always follow the instructions in the manual when connecting the machine. If the connection is made by an agricultural hitch, one part (tractor or machine hitch) must have a clevis design. The hitch pin must be secured with a locking pin (Fig 5).

Follow applicable regulations for road transport

Some countries require the use of safety chains when transporting a towed machine.

Think safety while working
The tractor engine should be stopped and the ignition key removed before performing any repair work, lubrication, or other maintenance on the machine. (Fig. 6).

Protective covers
Ensure that all covers are in good condition and properly mounted. Do not attempt to start the machine until this has been done. Damaged covers should be repaired or replaced immediately. (Fig. 7). Pay special attention to all protective covers related to the power take-off shafts. Replace damaged covers. Safety chains must always be attached to the machine and/or tractor to prevent the protective sleeves from rotating.

Hydraulics
Be cautious when handling hydraulic systems. Wear eye protection and gloves. Oil released under high pressure can penetrate the skin and cause serious internal damage. Seek medical attention if you have been exposed to such injury. (Fig. 8).

Ensure that no one is near the machine when hydraulic functions are operated.

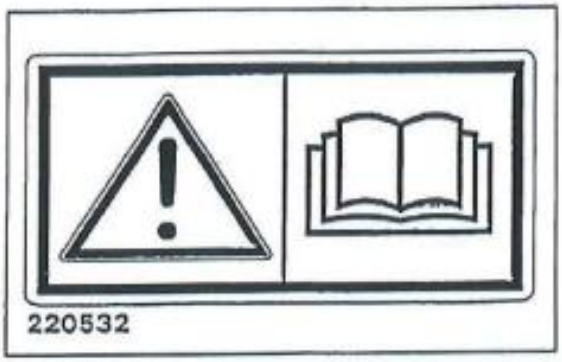


Fig. 1

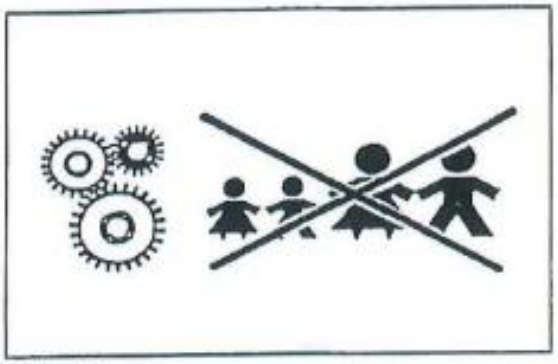


Fig. 2

Fig. 3

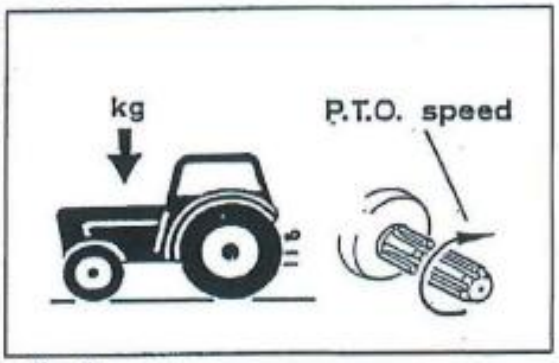


Fig. 4

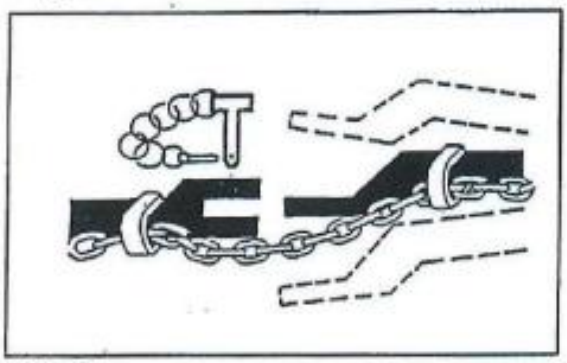


Fig. 5

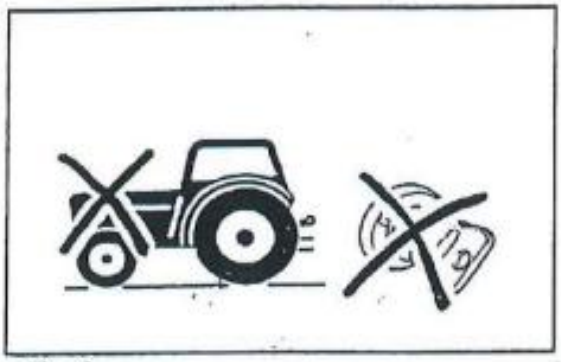


Fig. 6

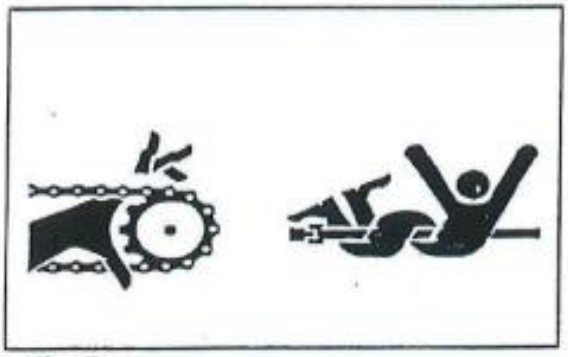


Fig. 7

Fig. 8

When disconnecting the machine and leaving the tractor/machine
Set all hydraulic functions to the neutral position when disconnecting the machine. Lower the movable working components to the ground or set them in the transport position and secure them. If the machine is equipped with parking blocks, these should be used. Do not allow children to play or remain near agricultural machines. (Fig. 9).

Drive Safely
Remember, you are responsible – carelessness and negligence can cause serious injury or even death. (Fig. 10).

Check the wheel bolts and the connection
between the machine and tractor before transport on public roads. Also disconnect the hydraulic system.

Drive carefully. Reduce speed in turns and when driving on uneven surfaces. Ensure that the towed machine does not move uncontrollably sideways.

Be aware of the tipping hazard when driving on slopes and on soil with low bearing capacity. Reduce the load.

Lights
The owner/operator is responsible for equipping the machine with the correct sound and reflectors when driving on public roads. Follow public regulations. (Fig. 11).

Safety equipment
Always carry first aid equipment in the tractor. Follow public regulations regarding fire extinguishing equipment. When working with flammable materials such as hay and straw, fire extinguishing equipment must always be available. (Fig. 12).

Spare parts
For safety reasons, we recommend using only original spare parts. The product warranty is invalid if non-original parts are used. (Fig. 13).

Maintenance
Ensure that the machine is properly maintained and kept in good condition. Never make modifications to the machine’s technical design. (Fig. 14).

Fig. 9

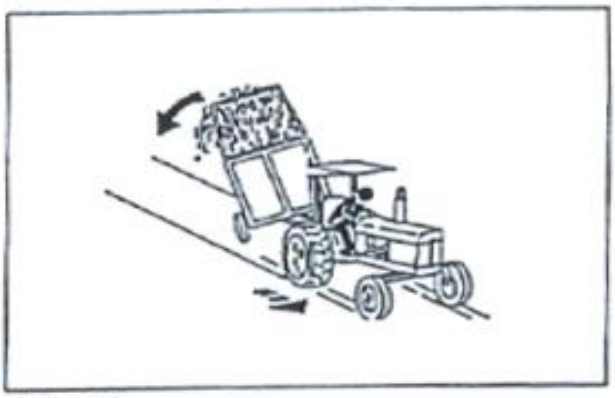


Fig. 10

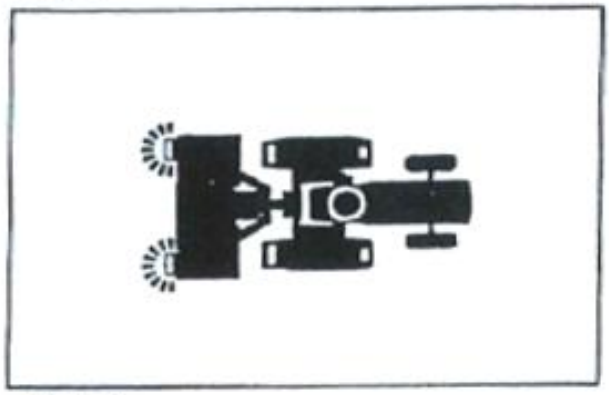


Fig. 11

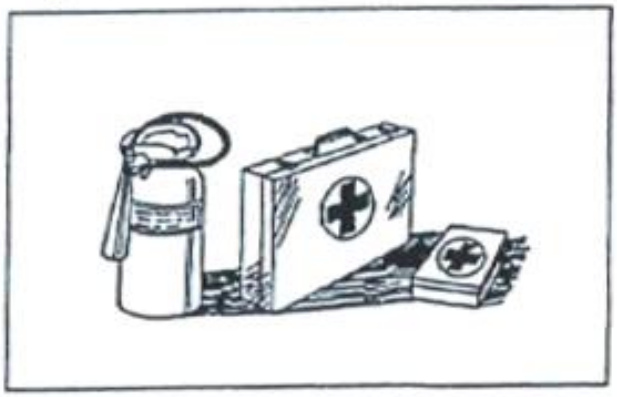


Fig. 12

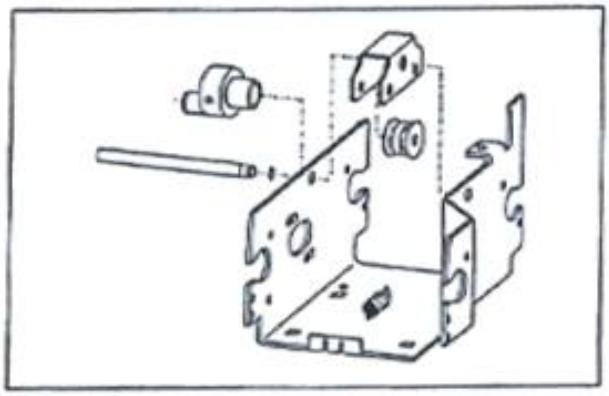


Fig. 13

Fig. 14

Additional Safety Instructions for the UM 8000 Forage Unloader Wagon

This machine is marked with this ⚠ warning label. If the label is damaged, it must be replaced.

Warning label UH 220532

Be cautious. Read and understand the instruction manual before using the equipment and before making adjustments or performing maintenance.

Warning label UH 220256

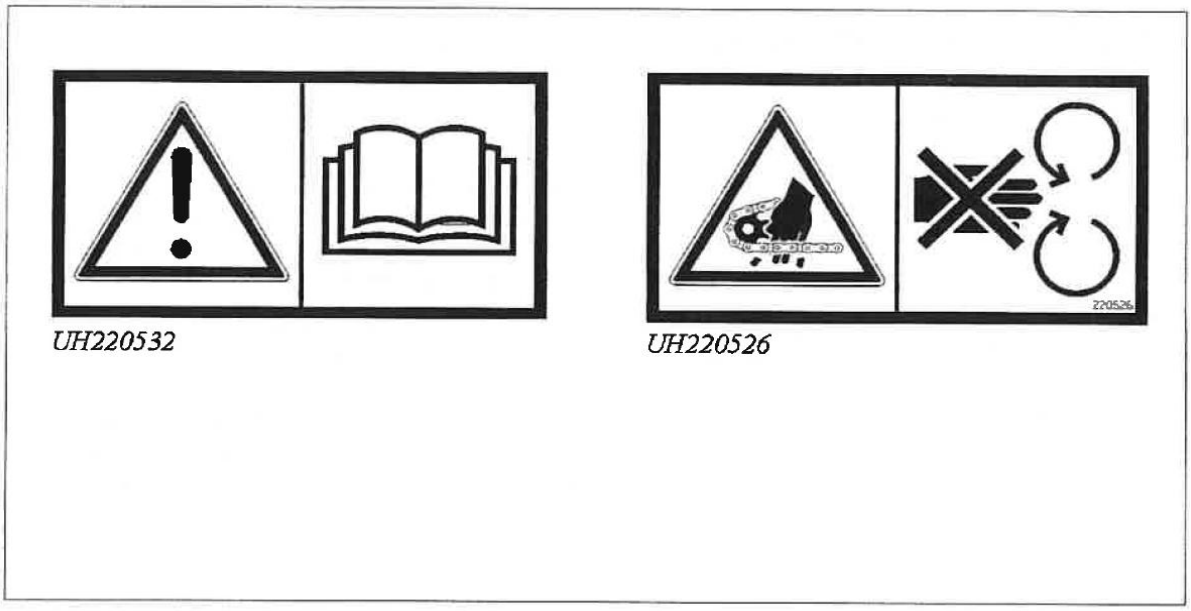
Due to the significant risk of crushing, it is important to keep people at a safe distance from the equipment in use.

Warning label UH 220526

When the equipment is mounted on the rear of the tractor or the loading device, ensure that no one walks under the equipment. Also, avoid raising the equipment too high, as this could cause the load to fall off or the tractor to tip over.

Lifting the Machine with a Crane

Only use approved lifting equipment. The van's weight is specified in the "technical data" section. Be cautious! Ensure that no one is under or near the machine when lifting. On the new van, lifting points are mounted inside the loading platform. Lift the machine with straps attached to these points to ensure the lift is balanced. Check that the lifting straps are securely fastened before starting the lift. Use a guide strap to keep the machine in position.



UH220532

UH220526

Machine Identification

The machine's serial number and the manufacturer's address are indicated on a label on the machine. The serial number label is located at the front of the van. The machine's serial number and year of delivery should be noted on the declaration of conformity on page 30. Please use this information for all spare parts and service inquiries.

Technical Data

Applies to the van equipped with wheel dimensions 600/50x22.5"

Description data

Dimensions and Weight

Loading volume without grass catcher	14.5 m^3
Loading volume with grass catcher	20.0 m^3
Loading volume with rear door	22.5 m^3
Internal length of platform	4.08 m
Internal width of platform	2.15 m
Total length without throwing roller	6.84 m
Total length with throwing roller	7.06 m
Total length with rear door closed	6.53 m
Total length with rear door open	7.58 m
Total width	2.56 m
Total height without throwing roller (min)	2.66 m
Total height with throwing roller	2.84 m
Total height with raised grass catcher	3.57 m
Total height with rear door closed	3.34 m
Total height with rear door open	3.59 m
Weight (empty)	2100 kg
Maximum total weight	10,000 kg

Wheel width is adjustable from 2.46 m to 2.96 m.

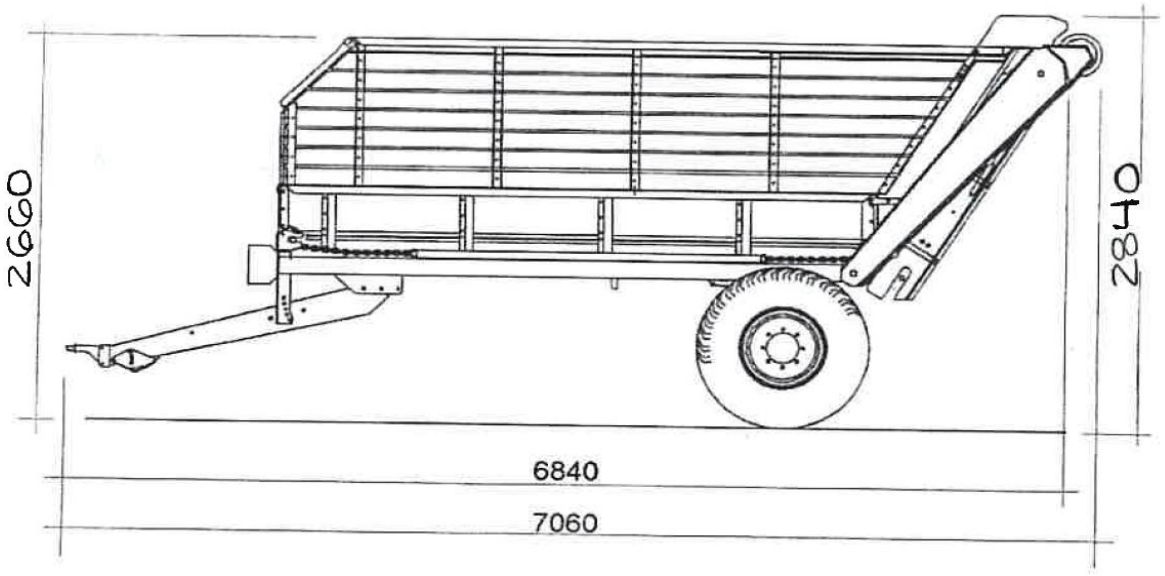
Oil Requirements
Required pump capacity: 20 l/min (150 bar)

Product Description
The Underhaug discharging van is designed and built to transport and dose grass and other straw materials over the discharger and throwing roller.
The bottom belt is hydraulically driven by the tractor’s hydraulic system or the van’s integrated pump (optional), while the discharger and throwing roller are driven by the tractor’s power take-off. The speed of the bottom belt can be adjusted using a valve. The position of the throwing roller can be adjusted to adapt the spreading pattern to the material structure and the distribution requirements in the discharge area.

The van's track width can be adjusted. When using large wheels, the van’s maximum width will exceed the specified width in the technical data. A large wheel diameter will also require the van to be mounted higher on the wheel axle. This increases the overall height beyond what is specified in the technical data.

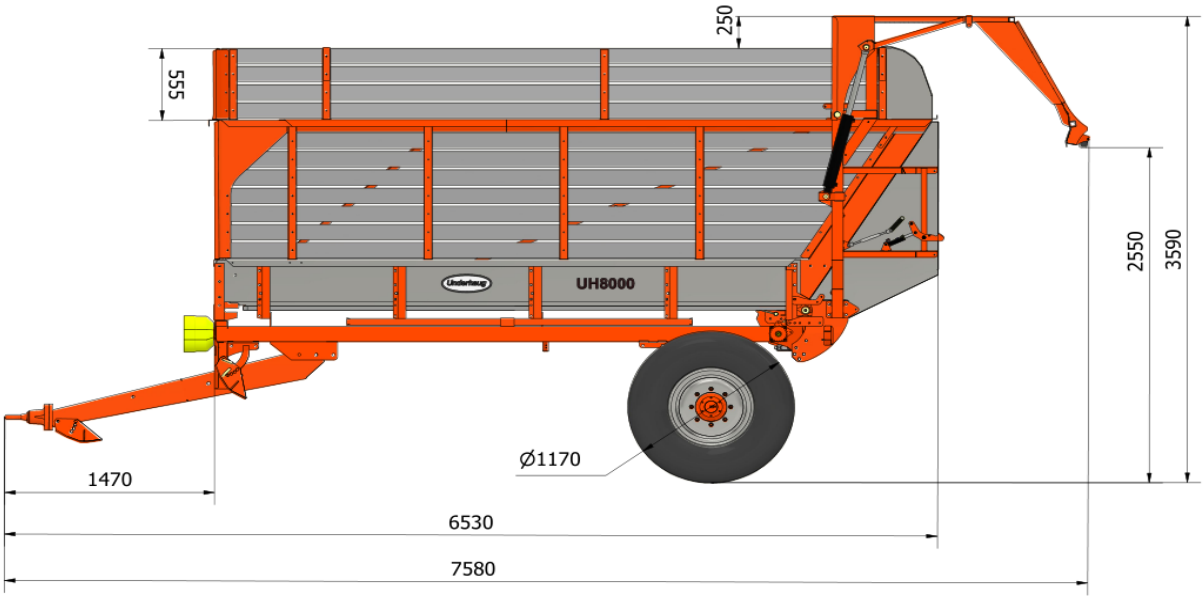
Main Dimensions (Standard)

Dimensions apply to the van equipped with wheel dimensions 600/50x22.5''. All measurements are given in mm.

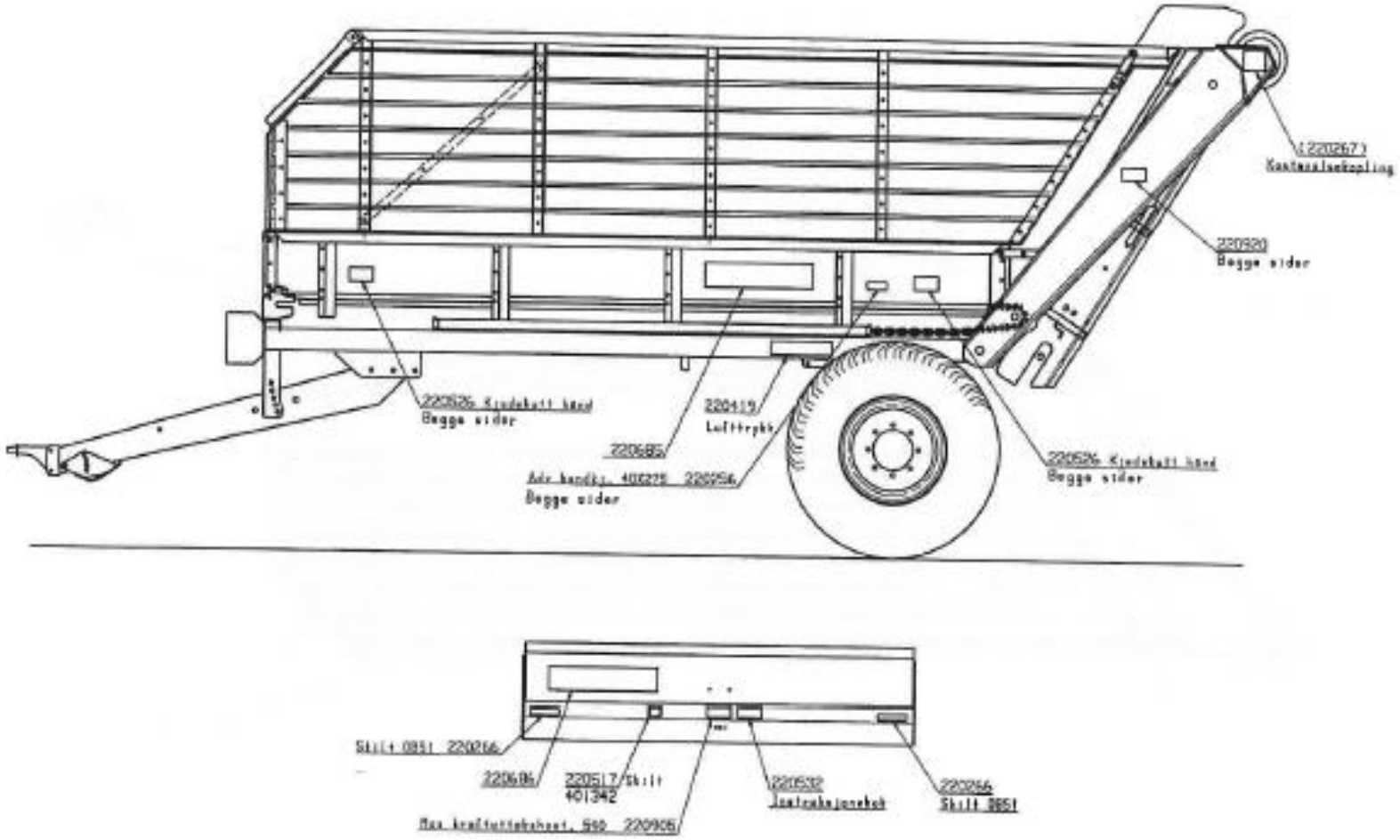


Main Dimensions (Rear Door)

Dimensions apply to the van equipped with 710 wheels. All measurements are given in mm.



Merkeplassering avlesservogn



Front

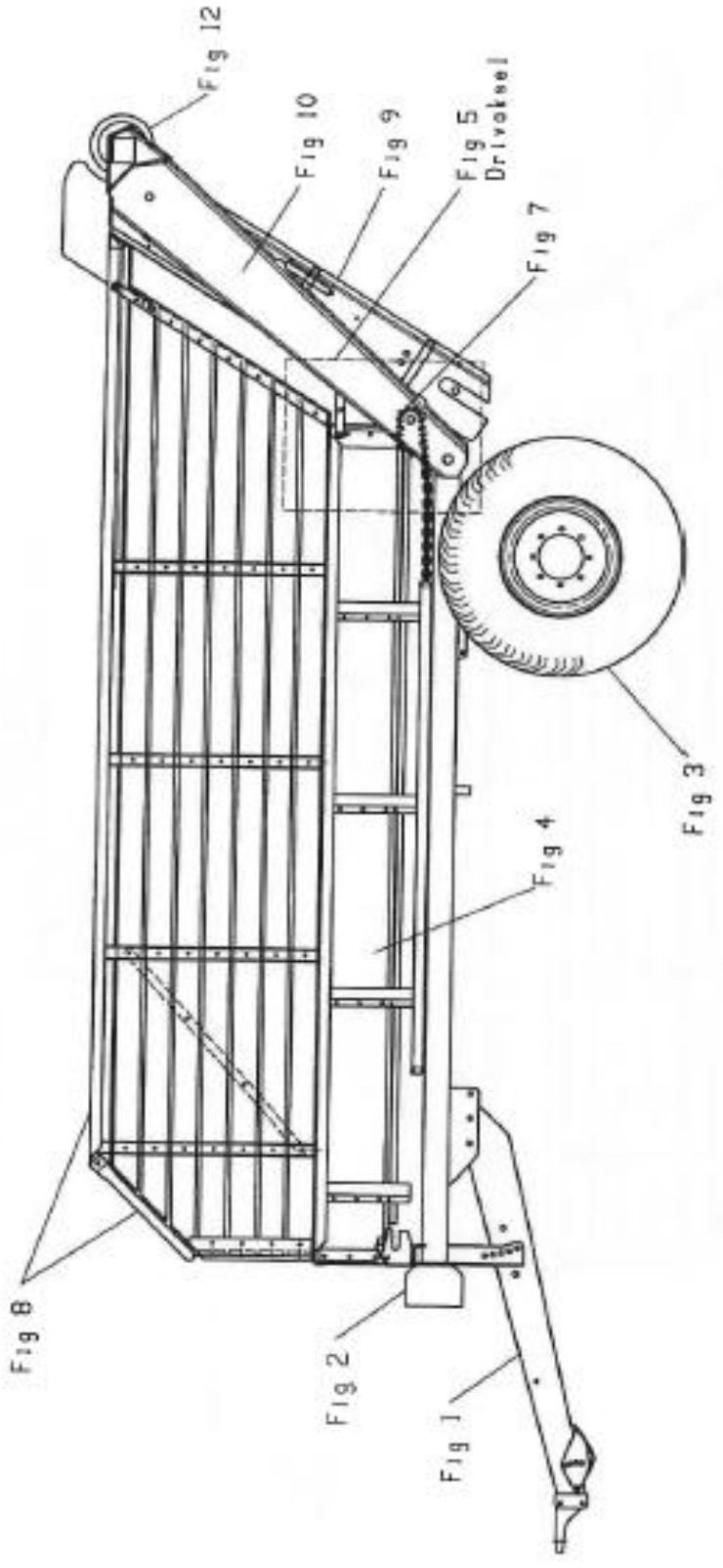
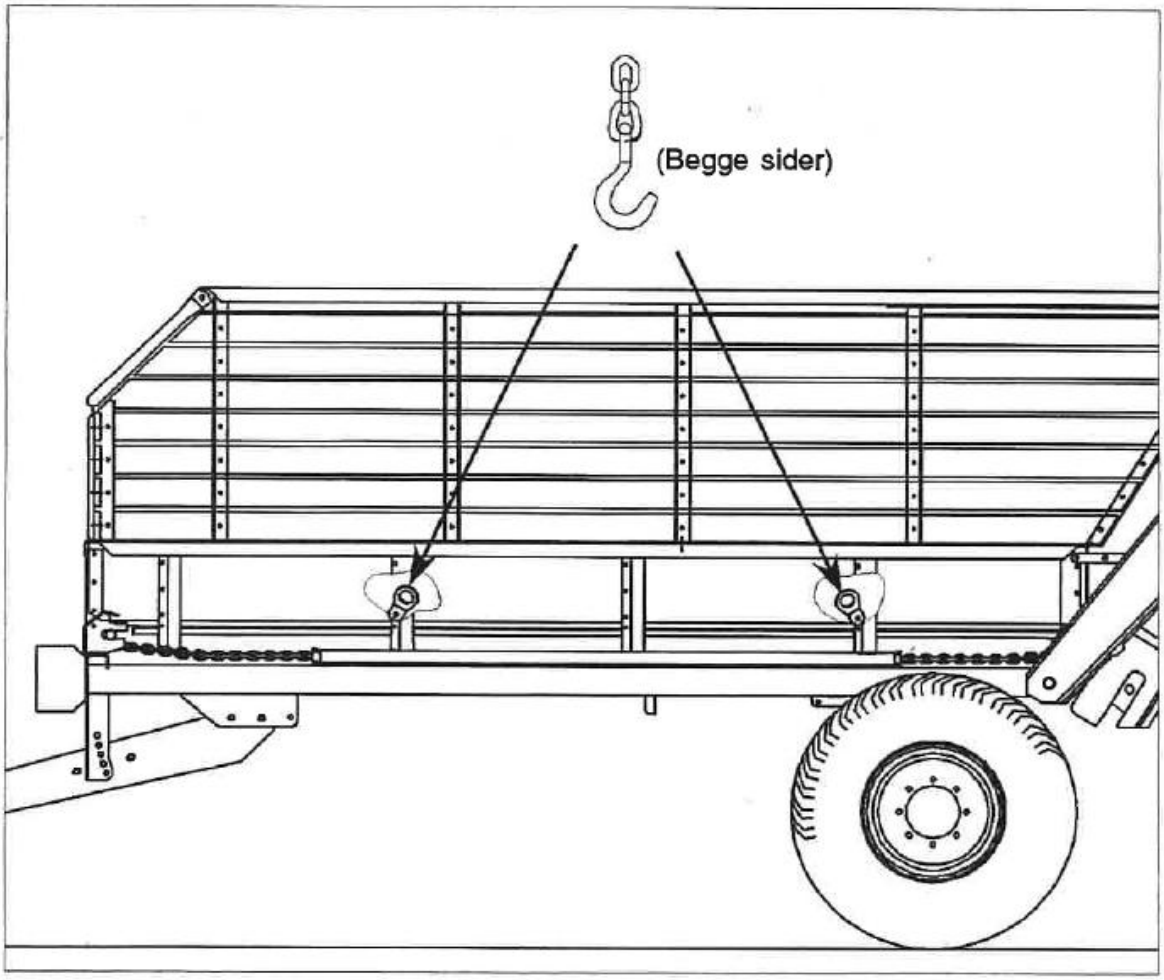


Fig 12
Fig 10
Fig 9
Fig 5
Drivekeel
Fig 7
Fig 3
Fig 4
Fig 8
Fig 2
Fig 1



Løfting – festepunkter for heisestropper

New Equipment – Be Cautious!
Read the instruction manual. Pay special attention when starting a new machine for the first time. Assembly errors, incorrect operation, etc., can lead to costly repairs and loss of income. Underhaug's product warranty does not cover damage caused by failure to follow the instructions in the manual.

Pay special attention to this symbol:

 It is used to highlight important information to prevent incorrect assembly or use.

Be especially cautious of the following when putting a new machine into operation:

- Ensure that the machine is correctly assembled and not damaged.
- Check that electrical cables are long enough and positioned so they can follow the machine's movements without being damaged.
- Check the connection to the tractor.
- Lubricate the machine as described in the "Lubrication" section.
- Check the torque of the wheel bolts – it should be 220 Nm.

Cleaning
Keep the drive shafts free from ropes, nets, and grass to prevent damage to the drive shaft and seals.

 Remember that the operator is responsible for ensuring the equipment functions correctly.

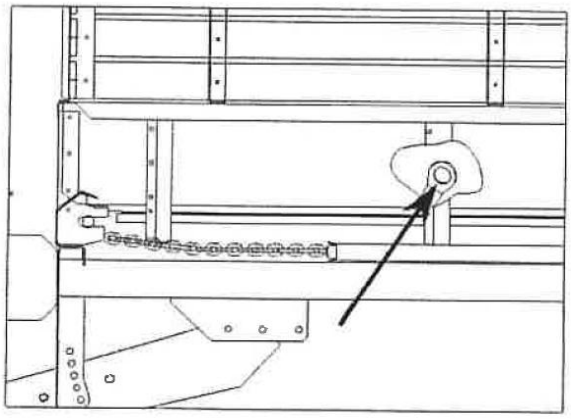
1. Preparation of the wagon

Ensure that the wagon is stable when performing the work.

1.0 Packaging

Remove the packaging. Any equipment stored inside the machine should be removed.

Remove the four lifting straps from inside the side frames.



1.1 Adjustment of the Wheel Axle

1.1.1 Track Width

The van is factory set with a standard track width. If the track width needs to be adjusted, place a hydraulic jack under the crossbeam of the wheel axle. Adjustments can be made in 5 cm increments for each wheel. Remember to lock the axle pins using both the clamp plate and the bolt through the axle pin and crossbeam. If changing to a different wheel width, check the distance between the inside of the tires and the frame of the van to ensure the tires are not damaged due to blocking. Adjust the track width if necessary.

Torque for clamp plate bolts M16 = 220 Nm
Torque for axle pin bolts M20 = 390 Nm

1.0.1 Height Adjustment

If changing to a different wheel diameter, the height of the van may need to be adjusted. Lift and support the van. Ensure that the van is stable. Loosen the wheel tracks from the frame mounts. Normally, the height will be adjusted to minimize the total height. Move the wheel track. Torque for bolts M16 = 220 Nm.

1.0.2 Length Adjustment

In some cases, the wheel track also needs to be moved in the longitudinal direction to ensure that the wheels clear the drive system at the rear of the van. The wheel axle has 3 possible positions in the van's length direction. Moving the wheel track forward on the main frame will allow the van to better follow the tractor's tracks when turning. However, the weight transfer to the tractor decreases, and caution must be exercised when driving with heavy loads when this wheel position is chosen.
Torque for wheel axle mounting bolts M16 = 220 Nm.

1.0.3 Torque for Wheel Axle Bolts

Torque for wheel axle bolts:

- Clamp plate bolts and frame bolts: 220 Nm
- Axle pin bolt M20: 390 Nm
- Hub bolts: 220 Nm

1.1 Adjustment of the Drawbar

The drawbar has 2 adjustment options: length and height. The drawbar is factory-mounted with medium length. A large tire width or track width on the tractor may require the maximum drawbar length. The length is adjusted after the van is supported or lifted at the front. The drawbar height should be adjusted so that the van's platform is approximately parallel to the ground. This can be adjusted by changing the angle of the drawbar (front attachment point on the frame).
Torque for drawbar bolts M20 = 390 Nm.

1.0.1 Height Adjustment

If changing to a different wheel diameter, the height of the van may need to be adjusted.

 Lift and support the van. Ensure the van is stable. Loosen the wheel tracks from the frame mounts. Normally, the height will be adjusted so that the total height is minimized. Move the wheel track.
Torque for bolts M16 = 220 Nm.

1.0.2 Length Adjustment

In some cases, the wheel track must also be moved longitudinally to ensure the wheels clear the drive system at the rear of the van. The wheel axle has 3 possible positions in the van's length direction. Moving the wheel track forward on the main frame will help the van follow the tractor's tracks better when turning.

 However, the weight transfer to the tractor decreases, so caution must be exercised when driving with a heavy load if this wheel position is chosen.
Torque for wheel axle mounting bolts M16 = 220 Nm.

1.0.3 Torque for Wheel Axle Bolts

Torque for wheel axle bolts:

- Clamp plate bolts and frame bolts: 220 Nm
- Axle pin bolt M20: 390 Nm
- Hub bolts: 220 Nm

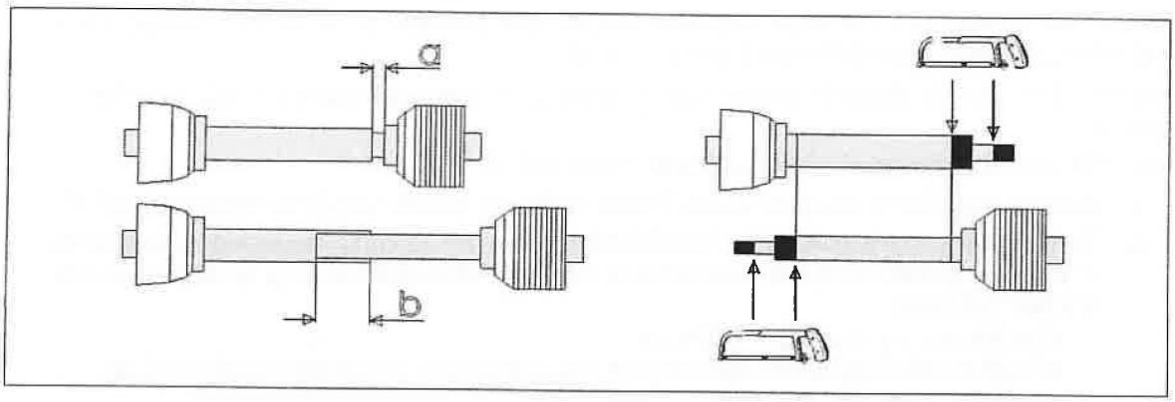
1.1 Adjustment of the Drawbar

The drawbar has 2 adjustment options: length and height. The drawbar is factory-mounted with medium length. A large tire width or track width on the tractor may require the maximum drawbar length. The length is adjusted after the van is supported or lifted at the front.
The drawbar height should be adjusted so that the van's platform is approximately parallel to the ground. This can be done by adjusting the angle of the drawbar (front attachment point on the frame).
Torque for drawbar bolts M20 = 390 Nm.

1.1 Adjustment of the Power Take-Off (PTO) Shaft Length

The PTO shaft that comes with the van has an integrated safety coupling. The preset torque is 800 Nm ± 10% (at PTO speed of 540 rpm).
Check that the shaft length provides adequate overlap:

1. Attach the van to the tractor's tow hook. The drawbar should be adjusted as described in section 1.2.
2. Separate the two halves of the PTO shaft and connect them to the tractor and van. Keep the halves together. Check during maximum turning and when the van is directly behind the tractor:
    - Ensure a minimum overlap of b = 200 mm
    - Ensure that the PTO shaft is not fully compressed and pressing against the yoke ends, with a minimum clearance of a = 20 mm
    - Ensure there is adequate clearance between the PTO shaft and the tractor's drawbar arms.
3. If the PTO shaft needs to be shortened, cut both telescopic tubes and protective tubes to the same length. Carefully file the tubes, remove any debris, and apply grease to the sliding surfaces.



1.0 Mounting of the Unloader Unit

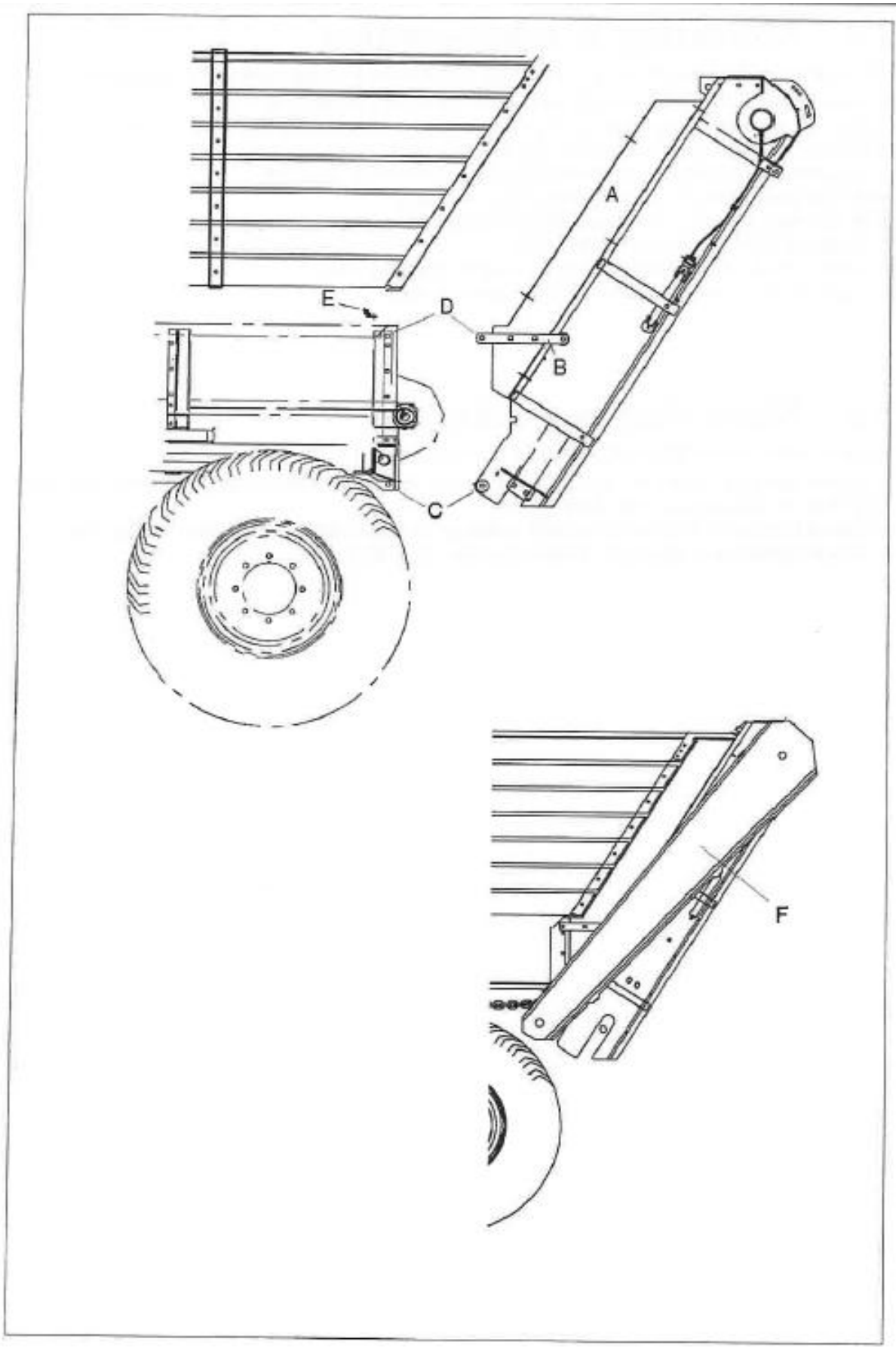
The unloader is fastened at 4 points at the rear of the van and is driven by a chain wheel on the left side of the van.

1. Mount plate A (right and left) on the unloader side (6-point screw M10x25).
2. Fasten bracket B (both sides) to the unloader sides (6-point screw M16x40 and locking screw M10x30).
3. Lift the unloader and fasten it to the lower attachment point C (6-point screw M16x40).
4. Swing the unloader up and fasten it to point D (6-point screw M16x40).
5. Mount locking hook E on the side shield (locking screw M10x25).
6. Mount the chain guard F (6-point screw M10x25 and M8x30).
7. Mount the drive wheel on the unloader's drive shaft.
8. Mount the drive chain and tighten it. Close and lock the chain guard.
9. Check the assembly by starting the tractor's PTO.

1.1 Mounting of Grass Guards

The grass guards are bolted to the platform and connected to the unloader.

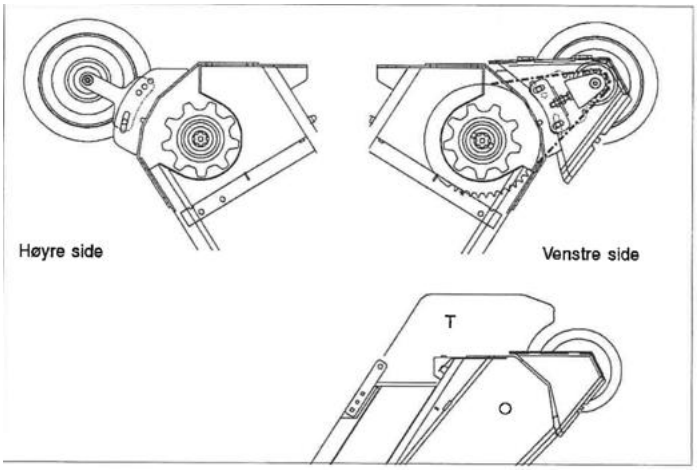
1. Mount the right and left side guards. Fasten them to the top of the platform's side guard with a locking screw M10x25 and to the plate on the unloader with a 6-point screw M10x25.
2. Mount the front guard. The front guard's bracket is fastened to the outside of the upper beam of the side guards. Fasten the front guard to the top of the platform's front guard with a locking screw M10x25.


A
B
C
D
E
F

1.0 Mounting of the Throwing Roller

The throwing roller is fastened to the top of the unloader unit and is driven by a chain from the unloader's drive shaft:

1. Mount the roller in the middle position.
2. Mount and tighten the drive chain.
3. Mount the chain guard.
4. Fasten the top shield T on each side.



1.0 Mounting of the Grass Catcher Net

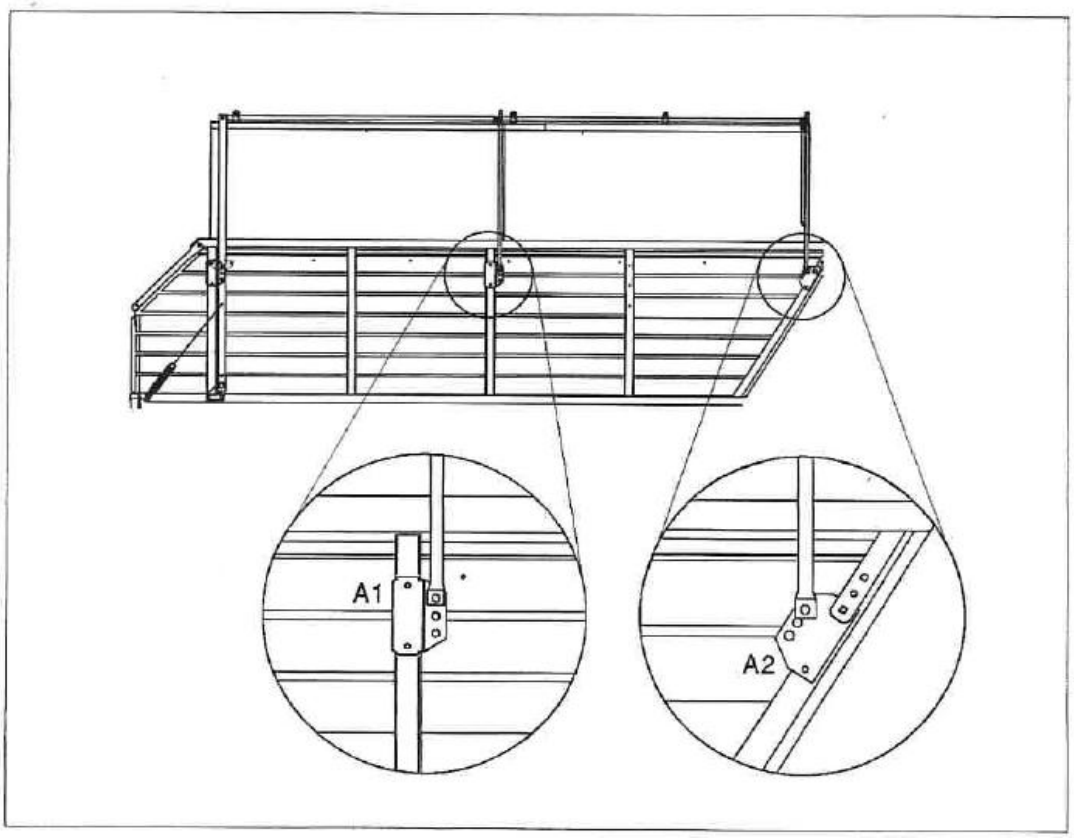
The grass catcher net is mounted on top of the side frames so that it can be folded down when the wagon needs to pass under low obstacles. The grass catcher can be mounted for both right- and left-mounted grass mowers by swapping the short and long side curtains. The lifting arm, which functions as the front support arm for the long side curtain, is mounted on the same side as the long curtain.

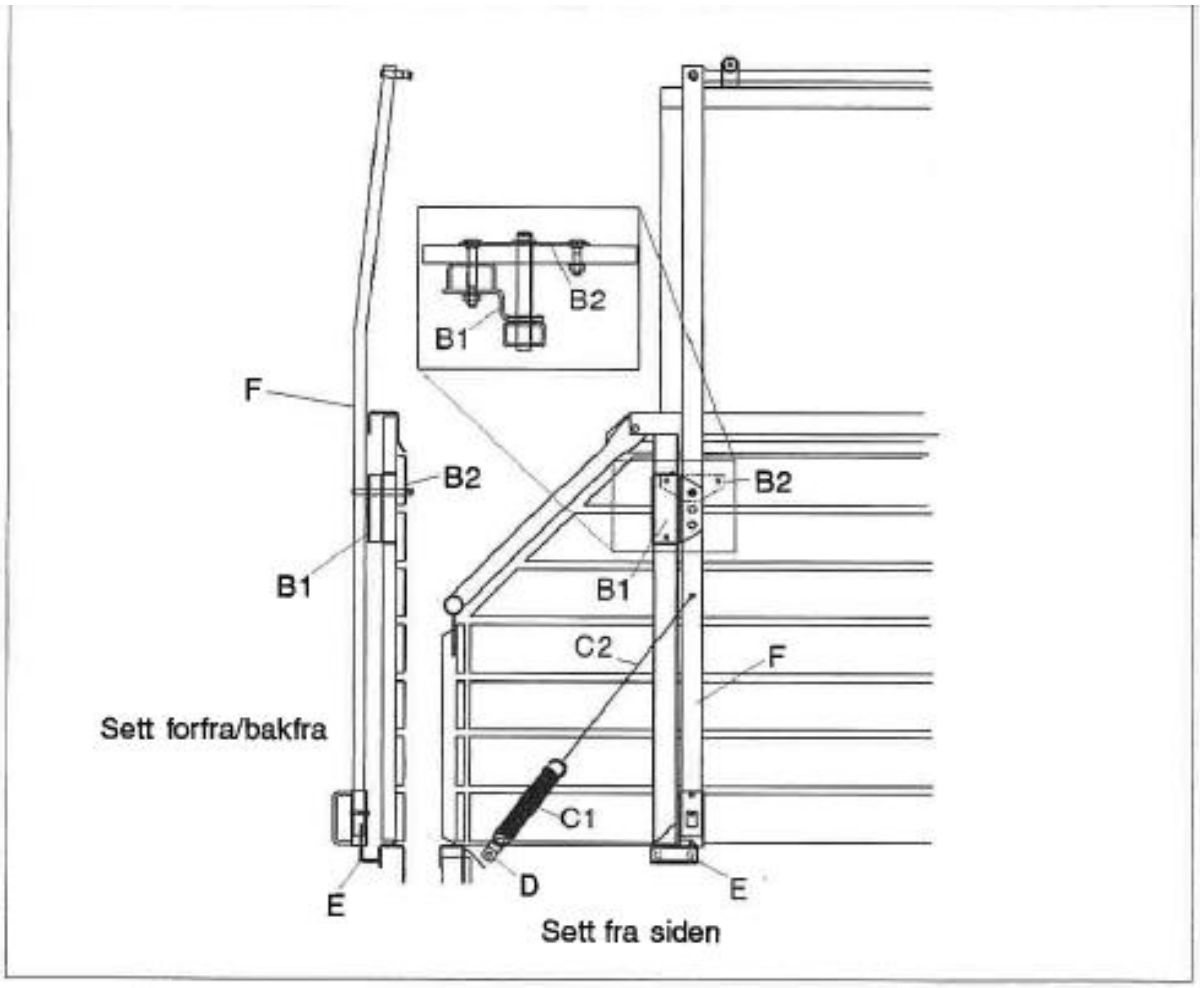
1. Mount the mounting plates A for the rear and front hoops on both side frames.
2. Mount the swivel mount B, spring C with attachment D, and lock E for the grass catcher's lifting arm on the side where the long curtain will be mounted.
3. Mount the lifting arm F and lock it in the upright position.
4. Attach the curtains to the rails G (hexagonal screw + washer (on the curtain side) + nyloc nut). Hang the short side curtain H with the corresponding rod K1 in the

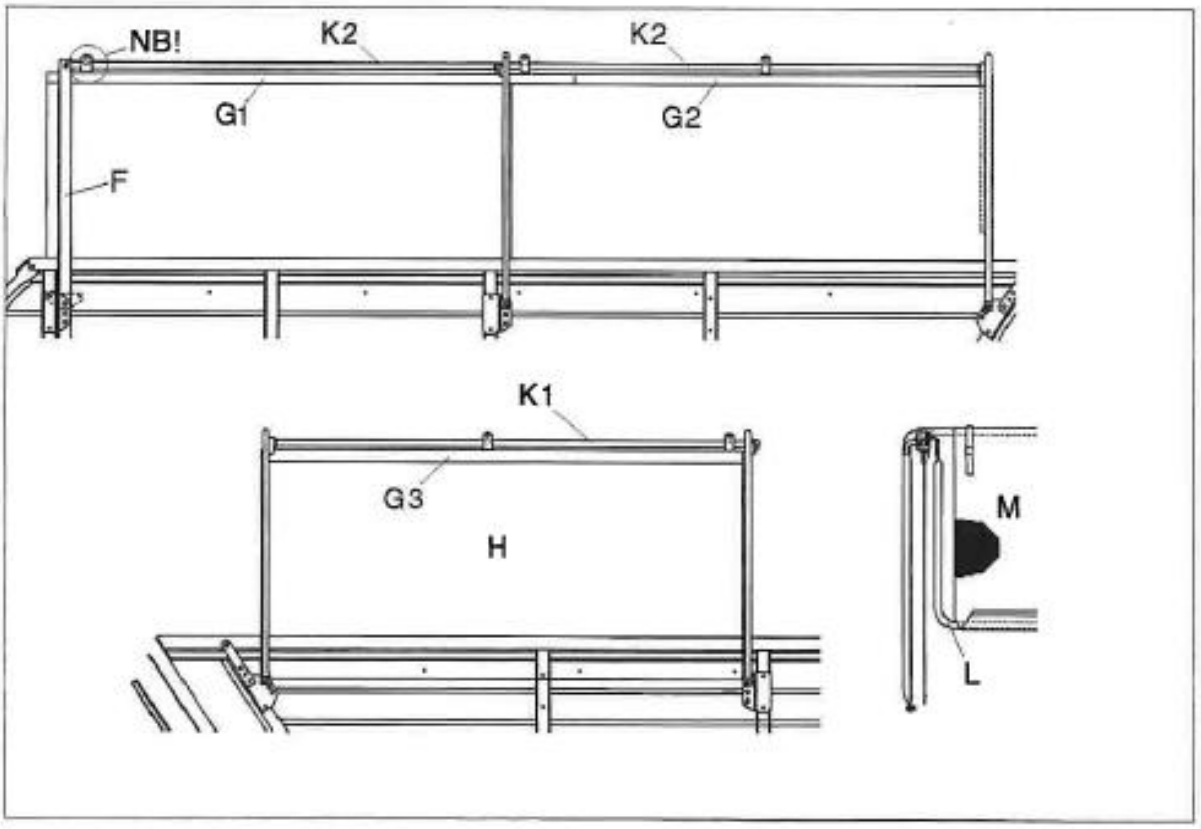
front and rear hoops on the desired side of the wagon. Turn the rail G so that the pulley is at the front end. The long curtain's rod K2 is additionally fastened to the lifting arm F. Secure all rod connections with cotter pins (the rear connection only temporarily). Fasten the lower edge of the side curtains to the wagon's grass frames so that the curtain is smooth and tight.

5. Check the folding function.

6. Insert the hoop L for the rear curtain M through the lower run of the rear hatch. Hang the hoop in the rear main hoop and permanently secure the connection with cotter pins. Then fasten the top edge of the rear curtain to the top of the rear main hoop.




B2
B1
F
B2
B2
B1
B1
C2
F
Sett forfra/bakfra
C1
D
E
E
Sett fra siden


NB!
K2
K2
G1
G2
F
K1
G3
H
M
L

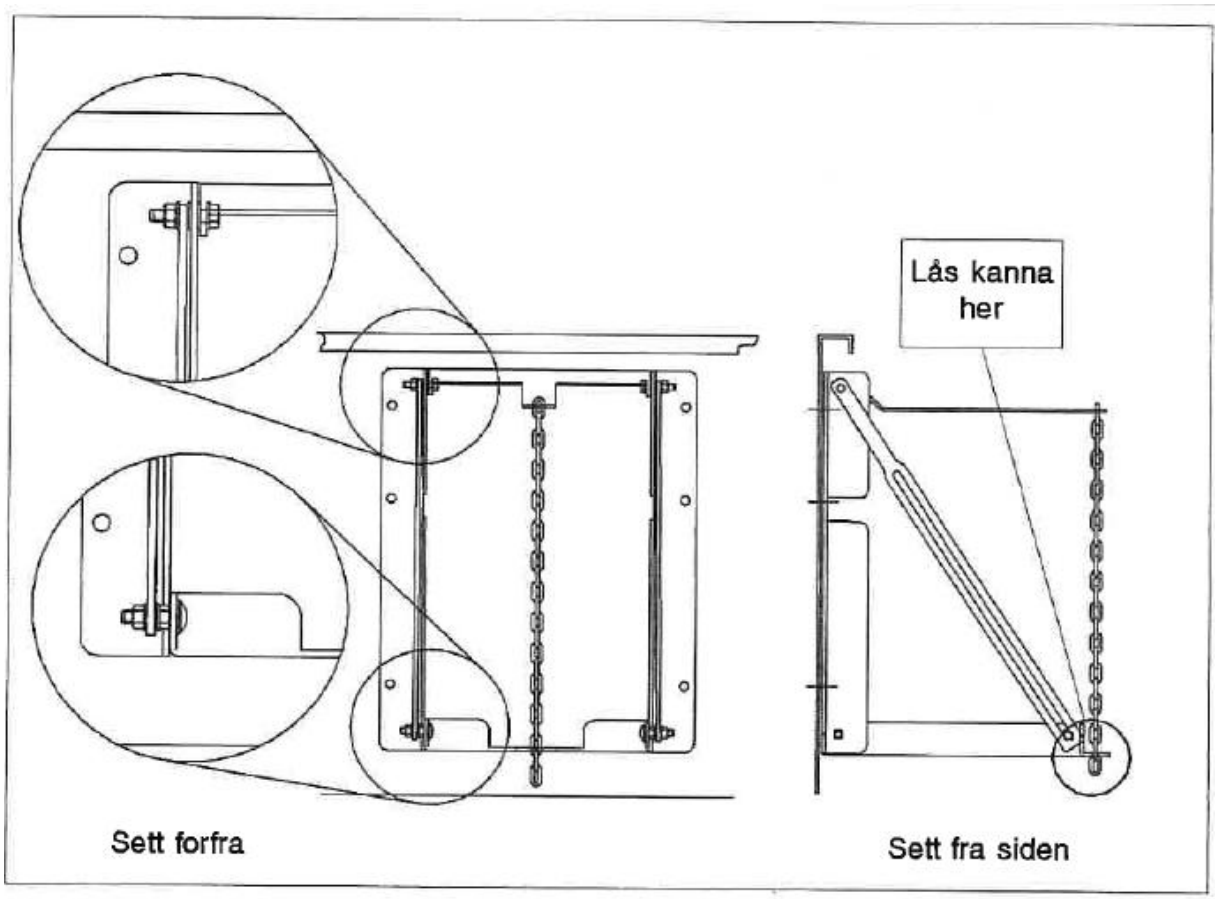
1.0 Mounting of the Can Holder

The can holder can be mounted on the front frame of the wagon.

1. Mount the holder in the hole in the front plate.
2. Check that the bottom plate of the holder can be folded up.

3. Tractor Requirements

The wagon is connected to the tractor's drawbar. The spreader is powered by the power take-off (PTO). A PTO outlet for 540 rpm is required. The bottom belt is powered by the tractor’s hydraulics. It requires a single-acting outlet with free (pressureless) return to the tank. The required oil capacity is a minimum of 20 l/min at 150 bar pressure. If the wagon is equipped with a hydraulic unit (optional equipment) for driving the bottom belt, no connection to the tractor’s hydraulic system is required.



3. The Wagon in Use

3.1 Connection to Tractor

1. The wagon is connected to the tractor's drawbar.
2. The power take-off shaft is connected to the PTO. This should be set for normal operation (540 rpm).
3. Operation of the bottom belt:
   a) If the wagon is equipped with a hydraulic unit, it is powered by the PTO.
   b) If the wagon is not equipped with a unit, the hydraulic hoses should be connected to one of the tractor's double-acting valves or a single-acting valve with free (pressureless) return. The return hose has a check valve to prevent the oil flow from going in the wrong direction through the system in case of incorrect connections.
4. If the wagon is equipped with lighting, connect it to the tractor's light outlet. Check that the lights are functioning.

3.1.1 Use Clean Hydraulic Oil!

To achieve maximum efficiency and lifespan of the hydraulic components, the hydraulic oil must be clean. The filter element and oil on the tractor must be changed according to the manufacturer's recommendations.

3.2 Operation

3.2.1 Filling

Fill the rear end of the wagon first for the best possible control of the fill level. If this results in insufficient traction for the tractor's drive wheels, more grass should be filled at the front of the wagon. The grass will be packed as it fills, and this process is time-dependent. With low harvest capacity, the grass will pack more, which will cause the achieved load weight to increase with decreasing harvest capacity. Be mindful of this when driving in uneven terrain and during transport.

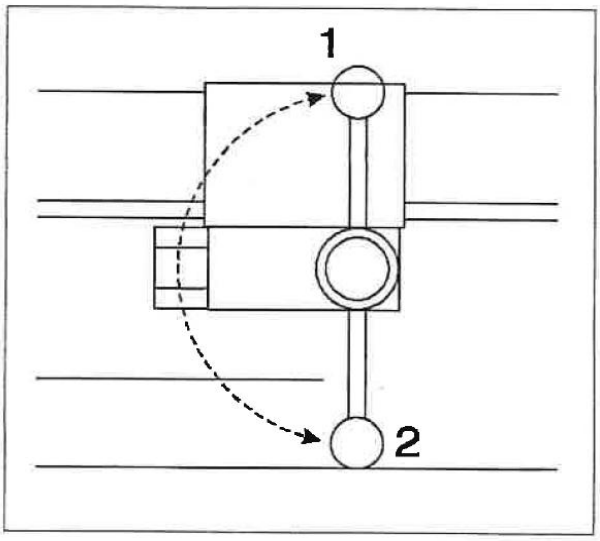
3.2.2 Unloading

3.2.2.1 Bottom Belt Operation

The bottom belt is driven hydraulically. The speed can be adjusted steplessly using a control valve on the left side of the wagon (in front of the wheel). Adjust the speed to the discharge capacity of the spreader. If the wagon is full, the bottom belt should not be started before the spreader is started with the PTO. With an oil supply of 2 l/min, the maximum speed of the bottom belt is 3.9 m/min.

3.2.2.2 Spreader Operation

The spreader is driven by the tractor's PTO. The speed is regulated by the tractor's engine speed. The maximum engine speed is 540 rpm. At 540 rpm, the spreader chain speed is 2.2 m/second.



3.2.2.3 Spreader Roller Adjustment

By adjusting the height of the spreader roller, the spreading pattern of the roller will change. This can be used to achieve the best possible fit between the spreading pattern and the silo size. The spreader roller has 3 positions. Normally, the roller is set to the middle position. To adjust the height, loosen the two mounting bolts on each side. Remove the upper bolt and shift the roller. It may be necessary to loosen the spreader roller's drive chain slightly before removing the left bolt.

3.2.2.4 Disengaging the Spreader Roller

In cases where temporary unloading of the wagon is required without spreading, the spreader roller can remain mounted, but with the drive disengaged. The engagement and disengagement of the spreader roller occurs by rotating the connection plate. Use the included lever or a fixed wrench. When engaging, the roller must be rotated so that the coupling pins mesh with the sprocket.

3.2.3 Transport Driving

When transporting on public roads, the relevant traffic regulations must be followed. Remember that driving with a spreader wagon reduces rearward visibility. Therefore, use lighting equipment to provide safer signaling for changes in direction, etc., when driving on public roads.

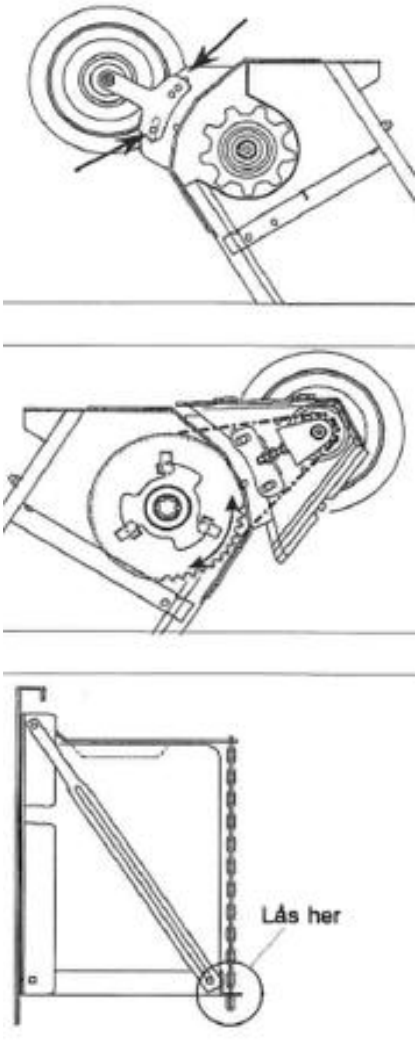
3.2.4 Transport of Preservation Fluid

If the wagon is equipped with a can holder, the can must be securely fastened.

3.3 Storage of Wagon

After the season or when the wagon needs to be stored for any other reason, the following should be done:

1. Clean the wagon.
   Note: Be cautious with the ball bearings when using a pressure washer. Water can penetrate the seals.
2. Inspect the bearings, sprockets, and drive chains for damage.
3. Lubricate the wagon according to the lubrication schedule.
4. Repair any paint damage.
5. Store the wagon in a place protected from precipitation, sunlight, and aggressive substances.
6. Check the tires and air pressure.



Maintenance

4.1 Retightening Bolts

 Check particularly the frame bolts, wheel nuts, and wheel axle bolts (which secure the wheel frame to the frame and the axle pins to the wheel frame's cross beam) after 1 hour of use and then weekly. All other nuts and bolts should be retightened after 8 hours of use and then weekly.
Tightening torque for bolts:

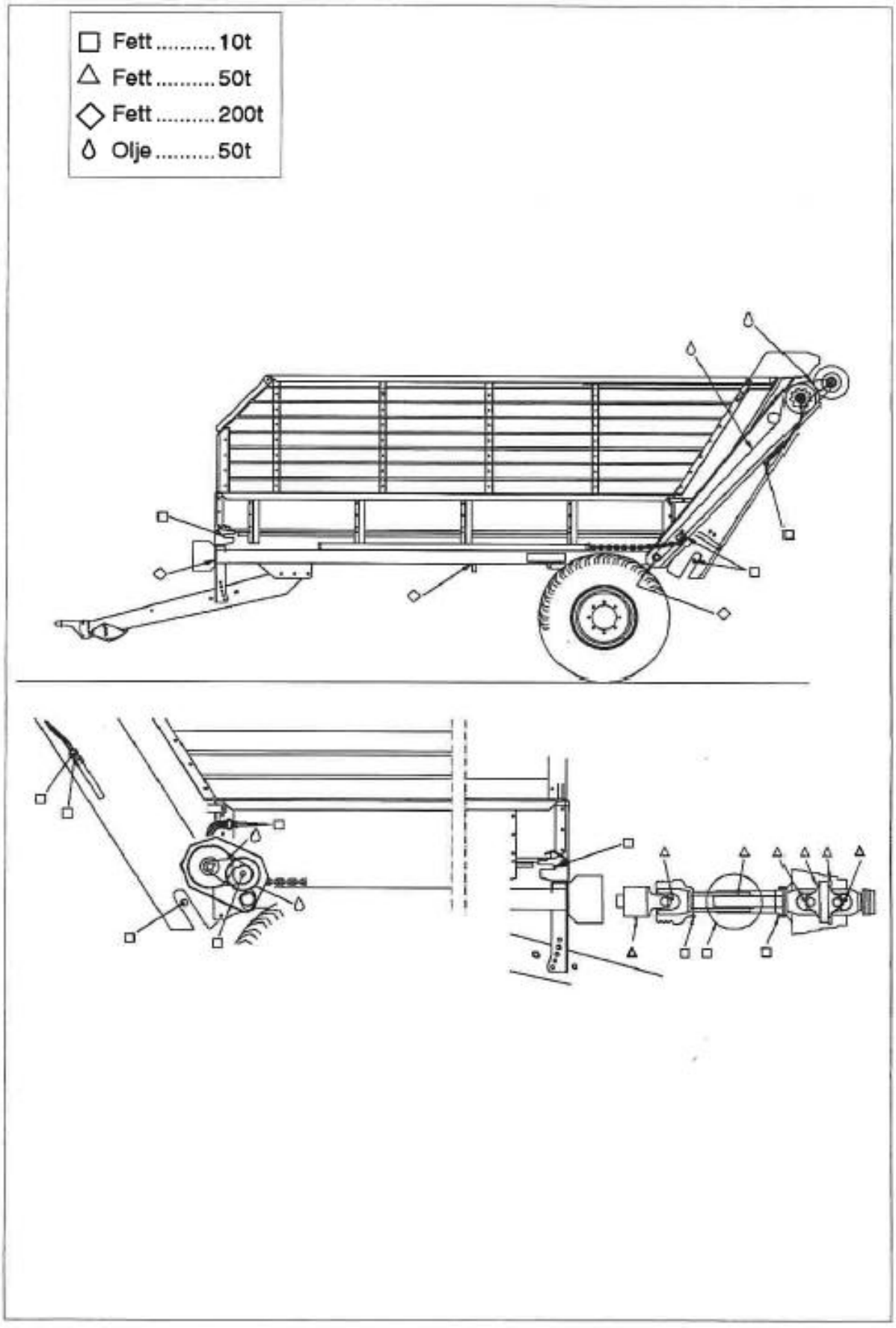
M6: 9.9 Nm	M12: 85 Nm
M8: 24 Nm	M16: 220 Nm
M10: 48 Nm	M20: 390 Nm

4.2 Chain Tensioning

Position	***Tensioning Method***
Bottom belt:	Screw tensioning on turn pulleys at the front on both sides
Discharge chain:	Screw tensioning on turn pulleys at the back on both sides
Bottom belt drive chain:	Screw tensioning on intermediate axle on the right side at the back
Discharge drive chain:	Screw tensioning on the left side
Throwing roller drive chain:	Screw tensioning on the left side

4.3 Lubrication

Component	*Lubrication Point*	*Lubrication Interval*
Power take-off shaft	Safety coupling	10 hours
	Joint	10 hours
	Protective tube	50 hours
	Glide surfaces on tube	10 hours
Main drive shaft	Front and middle bearings (under platform)	200 hours
Angle gear	Lower nipple block (right side)	50 hours
Cross shaft	Left side rear	200 hours
Tensioning pulley (bottom belt)	Left and right front side	50 hours
Bottom belt drive shaft	Lower nipple block (right side)	50 hours
	Left side rear	50 hours
Bottom belt drive unit	Intermediate axle (right side)	50 hours
Discharge drive shaft	Upper nipple block (right side)	50 hours
	Nipple block (left side)	50 hours
Tensioning pulley (discharge)	Rear left and right side	50 hours
Throwing roller	Upper nipple block (right side)	50 hours
	Nipple block (left side)	50 hours
Drive chain		50 hours


Fett 10t
Fett 50t
Fett 200t
Olje 50t

4.4 Air Pressure

Tire Size	Allowed Axle Load				Max Pressure
	0.5 bar	1.0 bar	1.5 bar	2.0 bar	
500/50-17"		3800 kg	4800 kg	5700 kg	2.2 bar
600/50-22.5	3900 kg	5800 kg	7400 kg	8000 kg	2.6 bar
700/40-22.5	4500 kg	6700 kg	8000 kg	8000 kg	2.2 bar

Juster lufttrykket opp ved lang transport på vei.

4.5 Cleaning

Keep axles free from grass, straw, etc., to prevent damage to the axles and seals.

5. Troubleshooting Operational Issues

It is important to determine whether the issue is due to mechanical or hydraulic factors.

5.1 Troubleshooting the Hydraulic System

a) Oil Flow Blockage in Quick Connects to the Tractor

This can cause pressure in the return line (blocked return connection). Try using a quick connect of the same standard as the one used on the tractor.

b) Excessive Oil Heating

It is not unusual for the oil temperature to reach up to 70°C during continuous operation. 60°C will feel unbearably hot to the touch.

c) Fault in the Tensioning Pulley Control Valve

Check if the tensioning pulley control valve for the bottom belt is malfunctioning.

d) Highly Contaminated Oil

Contaminated oil is highly detrimental to the hydraulic system. Remember to check the filter and oil replacement intervals, as outlined in the tractor's manual. Contaminated oil can contain large amounts of small particles that cannot be filtered but can still cause wear on engine seals and block valve guides. Experience shows that tractor hydraulic oil can be highly contaminated with particles and water.

e) If the Issue Cannot Be Resolved

Contact your Underhaug dealer. Describe the problem as accurately as possible to assist with troubleshooting.

EU - DECLARATION OF CONFORMITY

Responsible person

Name	Atle Årsland
Position	General Manager
Company	Underhaug AS
Address	Torlandsvegen 3
	4365 Nærbø, NORWAY
Phone	+47 51 43 49 78

Declares that the following machine:

Manufacturer:	Underhaug AS
Type:	UM 8000 Forage Unloading Wagon

Serial Number:
Production Year:

complies with the following directive:

Maximum regulation 554 (for 2009-05-20-554) and meets essential health and safety requirements.

Basic standard ISO 12100

Atle Årsland

Nærbø, date

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