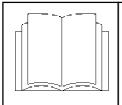


Operator's and inspection manual Lifting kit A418706

Lifting an Avant loader equipped with ROPS frame

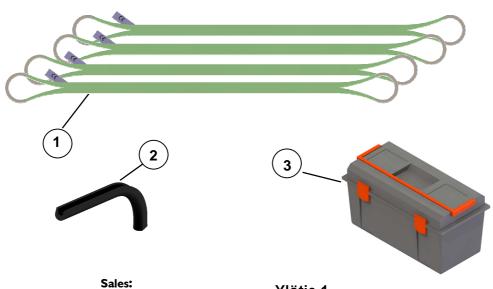


Read these instructions carefully before lifting the loader and follow all given instructions.

Keep this manual in the lifting kit toolbox for further reference.

Lifting kit A418706 includes

Product code		Qty	Description
1	66057	4	LIFTING STRAP 2000 KG 2 M
2	A418931	4	EDGE FROFILE BAND 17 CM
3	66135		TOOLBOX, BLACK



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Contents of the EC declaration of conformity (example)



EY - VAATIMUSTENMUKAISUUSVAKUUTUS

(Konedirektiivi 2006/42/EY)

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Vakuutamme, että oheisella lähetysiistalla toimitetut nostoapuvälineet, joista tämä todistus annetaan, ovat konedirektiivin 2006/42/EY ja Valtioneuvoston päätöksen n:o 1314 mukaiset ja täyttävät oleelliset terveys- ja turvallisuusmääräykset.

Seuraavia standardeja tai teknisiä määräyksiä on käytetty varmistamaan EY-direktiiveissä mainittujen terveys- ja turvallisuusvaatimusten täyttyminen: SFS 4646, SFS 3804, EN 1492-1, EN 1492-2

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Haklift Oy 23.09.2014

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I. Foreword and intended use

The Avant ROPS Lifiting kit has been designed to lift a loader equipped with a ROPS cab. The components in the lifting kit are CE-marked lifting accessories which ensure safe lifting operation when used according to instructions. When using the lifting kit, applicable laws and regulations concerning the use of lifting equipment must also be followed.

The lifting kit A418706 is not suitable for lifting other loaders than those equipped with ROPS cab. Ask your dealer for lifting kits intended for other type of loaders.

By familiarising yourself with this manual and following the instructions, you ensure safe lifting operation. Read the instructions carefully before starting to use the equipment.

The purpose of this manual is to help you to:

- operate the equipment in a safe and efficient manner
- observe and prevent any hazardous situations
- keep the equipment intact and ensure a long service life

The following warning symbol is used throughout this manual to indicate factors that must be taken into account to reduce the risk of personal injury or damage to property:



WARNING:

This safety symbol refers to important safety information in this manual. It warns of an immediate hazard that could cause serious personal injury.

Read the warning text accompanying the symbol carefully and ensure that other operators are also familiar with the warnings, since personal safety is at stake.

Make sure that lifting is done only by persons familiar with lifting operations. Using the equipment in other ways than described in this manual is prohibited. Keep this manual at hand throughout the service life of the equipment. If the manual is lost or damaged, remember that you can request a new one from your Avant dealer. The original languages of this manual are English and Finnish.

In addition to the safety instructions included in this manual, you must observe all occupational safety regulations, local laws, and other regulations concerning the use of the equipment. We reserve the right to change the contents of the manual without notification.

CE-marking of the lifting kit

The individual lifting accessories in the lifting kit are CE-marked according to directive 2006/42/EC by their manufacturer. Use only lifting accessories where information related to CE-marking is readable and which have been checked according to instructions given in this manual and local regulations as well. Missing markings or inspections logbook, or failure to inspect the equipment in due time lead to prohibition of use of the lifting equipment.



2. Safety of lifting operations



Misuse, careless use, or using equipment that is in poor condition may cause risk of serious injuries. Familiarise yourself carefully with how to strap and use the lifting straps correctly. Learn the instructions regarding inspections.

- Use the lifting kit A418706 only to lift a loader. Other use may expose the equipment to loads that may weaken them and reduce the safety of lifting operation.
- Always use all four lifting straps. Lifting in other ways may lead to overloading a single strap due to uneven load, or may lead to damaging the frame of the loader. Using four straps ensures safety in case one of the straps gets damaged.
- Make sure that the lifting straps will not get abraded. Lift only as instructed in this
 manual and always use the rubber profile bands to avoid the sharp corners of the
 loader frame.
- If the rubber profile bands are damaged, or if they slip off, replace the band. Lifting without the band or other material to soften the sharp corners is prohibited.
- Going under a lifted loader is strictly forbidden. Follow instructions of the lifting crane or other equipment carefully.
- If other lifting components are required (hook, link, rings, ...), make sure they are in good condition and suitable for the lifting operation.
- Ensure that all lifting equipment is thoroughly inspected before beginning to lift a loader.



Proper condition of the lifting equipment and correct use must be ensured when dealing with lifting operations. Lifting is safe only when adhering strictly to given instructions. Local regulations or policies may limit lifting operations to trained personnel only. Find out possible local restrictions.



Note the maximum allowed lifting load of the equipment and ensure that, for example, an attachment will not cause unstable lifting of swinging.



Always follow the instructions of the lifting crane or other equipment used for lifting. Always lift and lower loads slowly while avoiding abrupt movements.



Never allow anyone to ride the loader while lifting or to stay under it while lifted.



3. Technical specifications

Table I - Technical specifications Lifting kit A418706

Product number	A418706	
Lifting accessory:	Webbing strap	
Nominal load (WWL, Working Load Limit, maximum allowed work load in vertical lifting), single strap:	2000 kg	
SWL, Safe Working Load, maximum allowed load in looped (tightening) lift, single strap:	1600 kg	
Length:	2 m	
Material:	100 % Polyester	
Operating temperature:	+40℃+100℃	
Suitable AVANT loader:	Avant 400 to 700 series and R series loaders with ROPS frame	

Lifting method Form factor	Direct lift WLL M = 1,0	Tightening lift WLL M = 0,8	Open lift WLL M = 2,0	Angle lift WLL $\beta = 0^{\circ}-45^{\circ}$ $M = 1,4$	Angle lift WLL B = 45°-60° M = 1,0	Angle lift WLL $B = 0^{\circ}-45^{\circ}$ $M = 0.7$	Angle lift WLL $\beta = 45^{\circ}-60^{\circ}$ $M = 0.5$
SNV = WEBBING SLINGS			UU	23	20		
Diameter/colour	WLL kg	WLL kg	WLL kg	WLL kg	WLL kg	WLL kg	WLL kg
60 mm green	2000	1600	4000	2800	2000	1400	1000

3.1. Markings on lifting equipment

Every strap is marked with a tag shown in adjacent picture. Also a year tag is sown in. A hole should be punched to the year tag when annual inspection is made.



Only the use of marked lifting equipment is allowed. Do not remove the markings and handle the lifting straps carefully. If the markings are missing, the strap must be removed from service.

Markings include the following important pieces of information:

- Work Load Limits
- Date of manufacture
- Serial number
- CE-marking





4. Lifting a loader equipped with ROPS cab

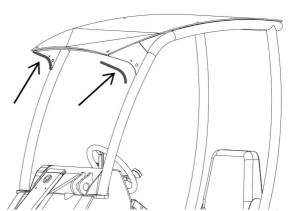


The lifting straps must be inspected as shown in this manual before beginning lifting operations. Use the lifting kit only as instructed.

Fitting edge profile bands to the front of the ROPS structure

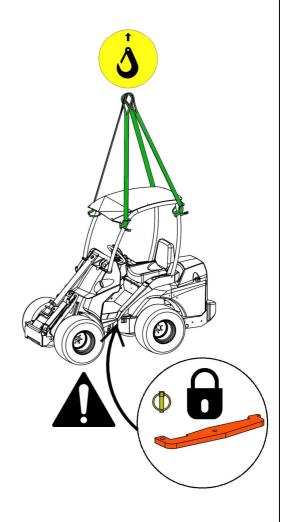
To avoid abrasion of the lifting straps, 2 of the edge profile bands must be fitted to the front section of the ROPS frame as shown in adjacent figure.

The lifting kit includes an extra pair of edge profile bands. Contact your dealer if new ones are required.



Lifting the loader with lifting straps

- The lifting strap must be fitted around the ROPS posts as a self-tightening loop. <u>Do not tie the lifting</u> <u>straps!</u>
- All four lifting straps and two of the edge profile bands must be used to avoid damaging the straps or the ROPS structure and to ensure safe lifting.
- Use a correctly dimensioned lifting hook. The hook surface must be smooth, rounded, and locking type.
- Ensure the stability of the loader being lifted and follow the instructions given in the operator's manual of the loader. Lower the boom completely and attach the frame lock for lifting.
- If an attachment is fitted, it must be empty during lifting.
- If a particularly heavy attachment or extra counterweights are used, they must be removed from the loader.
- Always shut down the loader engine before lifting.
- Hook the lifting straps so that they are not twisted.
- Lift slowly and avoid abrupt movements.
- Never lift if someone rides the loader.
- Abort lifting if the loader is unstable, swings, or if damage is seen on the lifting equipment or the loader frame, or if any other situation compromising the safety of lifting is observed.





5. Inspections



- The person performing the lifting operation must always check all lifting accessories visually in advance.
- Lifting accessories must be inspected thoroughly at least once a year. The inspection must be made by a person familiar with lifting accessories through training, professional experience, or practical insight.



Damaged lifting accessories must be removed from service, and they must de destroyed or permanently marked as not suitable for lifting operations. Never try to repair a lifting accessory.

5.1. Inspections log

An inspection log must be kept to mark noticed damage at its starting phase, noticed faults, and discarded or replaced lifting accessories. Inspections log must be kept for a minimum of 2 years. An inspection report or other proof of the last thorough annual inspection must be kept with the lifting accessories. An example of an inspections log and report is at the end of this manual.

- Write down all findings to inspections log.
- A hole should be punched to the year tag on the lifting strap once the corresponding annual inspection has been made.
- Periodic inspection by a qualified expert is recommended.

Annual inspection as a one-off procedure is not adequate to ensure safety, and therefore the condition of the equipment must be followed constantly. The needed frequency of periodic inspections depends on the use and environmental conditions. If the condition of any accessory is suspected, have it inspected by a qualified expert.

5.2. Handling lifting accessories

- Do not use the lifting straps for other purposes than for lifting of loaders.
- Store all lifting straps dry in their storage case, so that they are not exposed to chemicals, solvents, over 70°C temperatures, weather conditions, direct sunlight, or UV-radiation.
- Take care that the lifting straps are not exposed to fuel, oil, or other chemicals. Exposure may lead to weakening of the straps and shortened service life.
- If any of the lifting accessories in the kit is damaged or worn in way that could influence safety, the damaged part must be replaced with a new one.
- Lifting straps are approved for lifting for only a limited time. The straps must be removed from service after 10 years of use, unless damage is seen earlier.
- Never use alkaline agents to clean the straps; the strap material does not tolerate them well. The straps may be cleaned with water and mild soap.



5.3. Inspections before use

Check the straps for the following damages. If damage is observed, the strap must be removed from service.

Target of inspection	Basis of inspection		
Work load tag	Never use a lifting accessory, if its Working Load Limit can't be read, or if any other marking is not readable	NOSTOVYÖ WLL 1000 KG	
Knots	The straps must not be knotted		
Sewing, end loops	Sewing must not be torn		
Weaving	Damages of over 50 mm must not be present		
Abrasions, chafing	Abrasion caused by sharp corners must not be over 10 % of the width of the strap. Signs of burns or chemical corroding must not be present		
Cleanliness	General grime is sufficient reason to remove the strap from use		

6. Removal from service

Straps that are removed from service must be discarded properly. Handle the straps according to local waste regulations. The straps must not be disposed off by burning.

Inspections log

Date	Sr no	Taken into service	Inspector	Failed
Comments				
Date	Sr no	Taken into service	Inspector	Failed
Comments				
Date	Sr no	Taken into service	Inspector	Failed
Comments				
Date	Sr no	Taken into service	Inspector	Failed
Comments				
Date	Sr no	Taken into service	Inspector	Failed
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Date	Sr no	Taken into service	Inspector	Failed
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Date	Sr no	Taken into service	Inspector	Failed
Comments				
Date	Sr no	Taken into service	Inspector	Failed
Comments				
Date	Sr no	Taken into service	Inspector	Failed
Comments				
Date	Sr no	Taken into service	Inspector	Failed
Comments				
Date	Sr no	Taken into service	Inspector	Failed
Comments				

Lifting accessory inspection report

Description of lifting accessory: Lifting strap, Gree	en, Polyester, WLL 2000 kg
Serial number(s)	
Taken into service/ 20 La	ast inspection made/20
Maximum inspection interval: 12 mont	ths 6 monthsmonths
Inspected by Lo	ocation of inspection
Examination:	Application of lifting accessory
Visual inspection	
Thorough examination	Description of test
Tested with test load	
Inspection passed Inspection failed, equipment not suitable for lifting	use
Comments, observations, defects found, repairs n	nade
Date of report/ 20	Next inspection by/ 20
Signature (and stamp) of competent inspector	

