ORIGINAL INSTRUCTIONS- according to Directive 2006/42/EC, Annex 1 1.7.4.1

OPERATOR'S MANUAL

R 365 DS Rotary rake



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1 - GENERAL INFORMATION

Note to the owner

This manual has been prepared to assist you in the correct procedure to run in, to drive, to operate, to adjust and to maintain your new implement.

This implement has been designed and built to give maximum performance, economy and ease of operation under a wide variety of conditions.

Prior to delivery, your implement was carefully inspected both at the factory and by your dealer to make sure that it reaches you in optimum condition. To maintain this condition and assure trouble-free operation it is important that routine services, as specified in this manual, are carried out at the recommended intervals.

Read this manual carefully (especially Chapter 2 that covers the safety information) and keep this manual in a convenient place for future reference. DO NOT operate or permit anyone to operate or service this implement until you and/or other persons have read this manual. Read the manual, it will save you time and hassle later. Lack of knowledge can lead to accidents. Employ only trained operators who have demonstrated the ability to operate and service this implement correctly and safely. Contact your dealer for assistance providing the required training to your operators. Contact your dealer to obtain additional manuals or alternate language versions.

If at any time you require advice that concerns your implement, do not hesitate to contact your authorized dealer. He has factory-trained personnel, genuine service parts and the necessary equipment to carry out your service requirements.

NOTICE: This implement has been designed and built in line with the requirements put forward by the European Directives 2006/42/EC and 2014/30/EU.

Always use genuine KONGSKILDE Service Parts or parts that match at least the same quality, reliability and functionality as the equivalent original Service Parts when you service and repair your implement and do not modify your implement without a written permission of the manufacturer. Failure to do so will void the responsibility of the manufacturer.

Check local road legislation before you drive the implement on public roads.

When you operate interchangeable implement, make sure that the implement is CE approved.

As this publication is distributed throughout our international network, the implement illustrated, either as standard or as an accessory, may vary according to the country in which the implement is to be used. Low specification configurations, as chosen by the customer, may deviate from the specifications given.

Several figures in this operator's manual show the safety guarding or the additional guards, legally required by certain countries, open or removed to better illustrate a particular feature or adjustment. The implement must not be used in this condition. For your own safety, make sure that all guards are closed or replaced before you operate the implement.

OWNER ASSISTANCE

We at KONGSKILDE and your KONGSKILDE dealer want you to be completely satisfied with your investment. Normally, your dealer's Service Department will handle any problems with your implement. Sometimes however, misunderstanding can occur. If your problem has not been handled to your satisfaction, we suggest you to contact the owner or General Manager of the dealership, explain the problem and request assistance. When additional assistance is needed, your dealer has direct access to our branch office.

COMPANY POLICY

Company policy, which is one of continuous improvement, reserves the right to make changes in design and specification at any time without notice and without obligation to modify units previously built.

All data given in this book is subject to production variations. The information in this publication is provided on the basis of information that was available at the time that the manual was written. Settings, procedures and other items can change. These changes can affect the service that is given to the implement.

Dimensions and weights are approximate only and the illustrations do not necessarily show the implement in standard condition. For exact information about any particular implement please consult your dealer. Make sure that you have the most current and complete information from your dealer before you start any job.

ACCESSORIES AND OPTIONS

Your implement has been designed to operate in a wide variety of soils/crops and conditions. Nevertheless additional equipment may, in certain cases, be required to improve the implement performance. A list of this additional equipment is given in the "Accessories" chapter in this manual. Use only those accessories designed for your implement.

PARTS AND ACCESSORIES

Genuine KONGSKILDE parts and accessories have been specifically designed for KONGSKILDE implements.

We would like to point out that "non-genuine" parts and accessories have not been examined and released by KONGSKILDE. The installation and/or use of such products could have negative effects upon the design characteristics of your implement and thereby affect its safety. KONGSKILDE is not liable for any damage caused by the use of "non-genuine" parts and accessories.

Rely on your authorized dealer to supply you with genuine KONGSKILDE parts only. These parts are covered by our warranty and will give you the best performance.

See the parts catalog or browse the KONGSKILDE portal to find service parts for your implement.

When you order service parts, always quote the model and serial number printed on the Product Identification Number (PIN) plate.

LUBRICANTS

Your dealer sells a selection of specially formulated lubricants based on own engineering specifications.

Recommended lubricants for your implement are listed in the maintenance chapter.

WARRANTY

Your implement is warranted according to legal rights in your country and the contractual agreement with the selling dealer. No warranty shall, however, apply if the implement has not been used, adjusted and maintained according to the instructions given in this operator's manual.

It is prohibited to carry out any modifications to the implement unless specifically authorized, in writing, by a KONGSKILDE representative.

CLEANING YOUR IMPLEMENT

When you use a high pressure washer, do not stand too close to the implement and avoid directing the jet at electronic components, electrical connections, breathers, seals, filler caps, and so on.

Clean decals only with a soft cloth, water and a gentle detergent. DO NOT use solvent, gasoline or other harsh chemicals to clean decals. Decals could be removed or get damaged.

DISASSEMBLY OR SCRAPPING

When your implement is taken out of service because it is damaged beyond repair or has reached the end of its useful life, disassembly, scrapping and/or recycling of components must be performed only by a qualified technician with service instructions, and in compliance with local law and regulations.

Intended use

The KONGSKILDE rotary rake can only perform the usual work in agriculture. Only connect the rotary rake to a tractor which corresponds with the specifications of the implement and is legal to use. Only the Power Take- Off (PTO) shaft of the tractor can drive the attached rotary rake.

The rotary rake may only be used for rake grass hay and straw crops on the ground.

Consider any other use contrary to the intended use. The manufacturer is not responsible for any damage that re-

Prohibited usage

Sweeping of for example farmyards with the tine arm assembly or brooms fastened to these is not allowed. There is a risk that for example stones are thrown out from the working area of the implement with danger of personal injury or damage to objects.

Any use beyond the intended use is regarded as foreseeable misuse.

Electro-Magnetic Compatibility (EMC)

This machine complies strictly with the European Regulations on electro-magnetic emissions. However, interference may arise as a result of add-on equipment which may not necessarily meet the required standards. As such interference can result in serious malfunction of the unit and/or create unsafe situations, you must observe the following:

- Ensure that each piece of non- KONGSKILDE equipment fitted to the machine bears the CE mark.
- The maximum power of emission equipment (radio, telephones, etc.) must not exceed the limits imposed by the national authorities of the country where you use the machine.
- The electro-magnetic field generated by the add-on system should not exceed **24 V/m** at any time and at any location in the proximity of electronic components.

Failure to comply with these rules will render the KONGSKILDE warranty null and void.

sults from the improper use of the implement. The user bears that risk.

Always observe the following safety instructions as well as the common rules concerning technical safety, working practices and road safety.

If you make changes to the implement and its construction without the permission from the manufacturer, the manufacturer does not accept any responsibility for damages that results from this.

Manual scope and required training level

Introduction to this manual

This manual gives information about the use of your KONGSKILDE machine as intended and under the conditions foreseen by KONGSKILDE during normal operation, routine service, and maintenance.

This manual does not contain all the information that relates to periodic service, conversions, and repairs that only trained service personnel can perform. Some of these activities may require appropriate facilities, technical skills, and/or tools that KONGSKILDE does not supply with the machine.

The manual contains the chapters as shown on the Contents pages. See the Index at the end of this manual to locate specific items about your KONGSKILDE machine.

Normal operation

Normal operation consists of the use of this machine for the purpose KONGSKILDE intends by an operator that:

- Is familiar with the machine and any mounted equipment or towed equipment
- Complies with the information on operation and safe practices as specified by KONGSKILDE in this manual and by the signs on the machine

Normal operation includes:

- Preparation and storage of the machine
- Addition and removal of ballast
- Connection and disconnection of mounted equipment
 and/or towed equipment
- Adjustment and configuration of the machine and equipment for the specific conditions of the job site, field, and/or crop
- Movement of components into and out of working positions

Routine service and maintenance

Routine service and maintenance consists of the daily activities necessary to maintain the proper machine function. The operator must:

- Be familiar with the machine characteristics
- Comply with the information on routine service and safe practices as specified by KONGSKILDE in this manual and by the signs on the machine

Routine service can include:

- Fueling
- Cleaning
- Washing
- Topping up fluid levels

- Greasing
- Replacing consumable items such as light bulbs

Periodic service, conversions, and repairs

Periodic service consists of activities that are necessary to maintain the expected life of the KONGSKILDE machine. These activities have defined intervals.

Trained service personnel familiar with the machine characteristics must perform these activities at the defined intervals. Trained service personnel must comply with the information on periodic service and safe practices as partly specified by KONGSKILDE in this manual and/or other company literature.

Periodic service includes:

- Oil change service for the engine, hydraulic circuits, or transmission
- Periodic exchange of other substances or components as required

Conversion activities rebuild the KONGSKILDE machine in a configuration that is appropriate for a specific job site, crop, and/or soil conditions (e.g., installation of dual wheels). Conversion activities must be done:

- By trained service personnel familiar with the machine characteristics
- By trained service personnel that comply with the information on conversion as partly specified by KONGSKILDE in this manual, assembly instructions, and/or other company literature

Repair activities restore proper function to a KONGSKILDE machine after a failure or degradation of performance. Dismantling activities occur during the scrapping and/or dismantling of the machine.

Trained service personnel familiar with the machine characteristics must perform these activities. Trained service personnel must comply with the information for repair as specified by KONGSKILDE in the service manual.

Before you operate

Read this manual before you start the engine or operate this KONGSKILDE machine. Contact your KONGSKILDE dealer if:

- You do not understand any information in this manual
- You need more information
- You need assistance

All persons training to operate, or who will operate this KONGSKILDE machine should be old enough to possess a valid local vehicle operating permit (or meet other applicable local age requirements). These persons must demonstrate the ability to operate and service the KONGSKILDE machine in a correct and safe manner.

Product Identification Number (PIN)

The Product Identification Number (PIN) is a serial number that identifies the implement.

The serial number, model and other specifications are on the PIN plate.

Provide your KONGSKILDE dealer with the model and the PIN when you order parts.



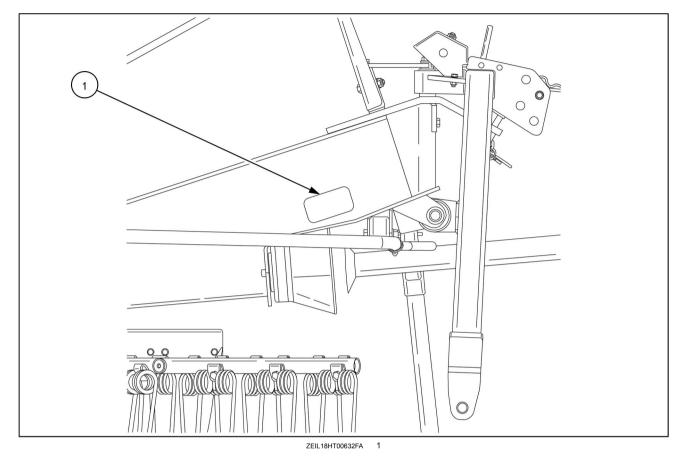
- (1) Company name
- (2) Brand identification logo
- (3) Mail address
- (4) Type / Variant / Version
- (5) Model year
- (6) Certification mark

- (7) Year of construction
- (8) Made in (country of origin)
- (9) Maximum weight
- (10) Product Identification Number (PIN)
- (11) Model
- (12) Designation

Product identification

NOTE: Do not remove or change the Product Identification Number (PIN) plate on the implement.

The PIN plate (1) is placed in the right-hand side in the direction of travelling behind the suspension at the frame.



For future reference, record your implement model and PIN in the spaces below.

Model

Product Identification Number (PIN)

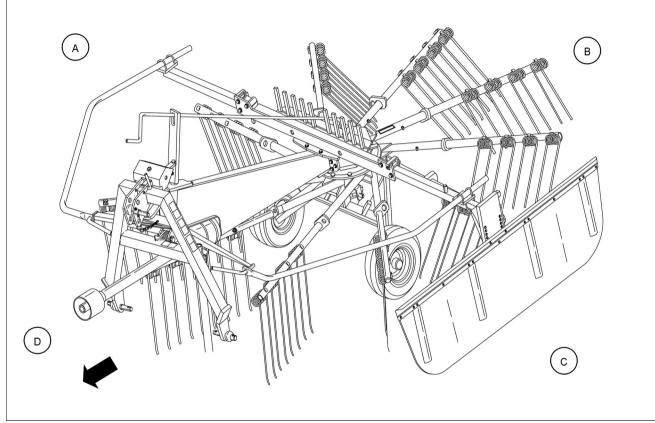
Operator's manual storage on the machine

Keep this operator's manual protected and accessible on the tractor whenever you transport or operate the implement.

Implement orientation

NOTE: To determine the left-hand side and the right-hand side of the implement, stand behind the implement and face the direction of travel during working operation.

The following overhead view illustration is a general representation of the implement. The illustration indicates the sides, front, and rear orientations of the implement as referred to throughout this operator's manual.



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NOTE: The arrow indicates the direction of the implement during working operation.

- (A) Right-hand side of the implement
- (B) Rear of the implement
- (C) Left-hand side of the implement
- (D) Front of the implement

2 - SAFETY INFORMATION

Safety rules and signal word definitions

Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

A DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

A WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

A CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: Notice indicates a situation that, if not avoided, could result in machine or property damage.

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: Note indicates additional information that clarifies steps, procedures, or other information in this manual.

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

General recommendations

Most farm machinery accidents can be avoided by the observance of a few simple safety precautions.

- This operator's manual contains important information concerning operation, maintenance and adjustment of the implement. Furthermore, this operator's manual mentions and emphasizes all the safety instructions.
- Read the operator's manual thoroughly before you start, operate, service, or carry out any other operation on the implement. Even though you have been driving a similar implement before, you must read the manual. This is a matter of your own and other people safety. A few minutes reading will save you time and hassle later. Lack of knowledge can lead to accidents.
- Your implement was designed with safety in mind. However, there is no real substitute for caution and attention when you need to prevent an accident. Once an accident has occurred, it is too late to think about what you should have done. This means that it is very important that you as user of the implement pay attention and use the implement correctly and thereby avoid exposing yourself and others to unnecessary danger.
- The implement must be operated only by responsible persons who have been adequately trained and authorized to use the implement. Never leave the implement to others before you have made sure that they have the necessary knowledge to operate the implement safely.

- Never let the implement run without supervision.
- · Always keep a first aid kit handy.
- Take the necessary precautions (for example assistance) to always be aware of the possible presence of bystanders and pets.
- Keep children away from and off the implement at all times.
- Do not use this implement as a lift, ladder or platform to work at heights.
- Before you work on the implement, disengage all drives, stop the engine and remove the ignition key. Wait for the rotating parts to run down.
- Never work around the implement with loose clothing, jewelry, watches, long hair and other loose or hanging items can be pulled in by the moving parts of the implement.
- Keep hands away from moving parts of the implement.
- Never attempt to carry out any adjustments on the implement while the implement is in motion or while the Power Take-Off (PTO) shaft is engaged.
- PTO driven implement can cause death or serious injury. Before you work on or near the PTO shaft or service or clear the driven implement, disengage the PTO, stop the engine and remove the ignition key.

Illustrations

A WARNING

Illustrations in this manual may show protective shielding open or removed to better illustrate a particular feature or adjustment. Replace all shields before operating the machine. Failure to comply could result in death or serious injury.

W0012A

NOTE: Some of the illustrations in this manual have been obtained by photographing prototypes. Standard production machines may differ in some details.

Legal obligations

Your machine may be equipped with special guarding or other devices in compliance with local legislation. Some of these require active action by the operator.

Fire or explosion prevention

- 1. Crop material, trash, debris, bird nests or flammable material can ignite on hot surfaces.
- 2. Inspect the electrical system for loose connections or frayed insulation. Repair or replace loose or damaged parts.
- 3. Do not store oily rags or other flammable material on the implement.
- 4. Do not weld or flame cut any items that contain flammable material. Clean items thoroughly with

Therefore, check local legislation on the usage of this machine.

non-flammable solvent before you weld or cut with a flame.

- 5. Do not expose the implement to flames, burning brush or explosives.
- 6. Promptly investigate any unusual smells or odors that may occur during the operation of the implement.

Hazardous chemicals

- If you are exposed to or come in contact with hazardous chemicals you can be seriously injured. The fluids, lubricants, paints, adhesives, coolant, etcetera. required for the function of your machine can be hazardous. They may be attractive and harmfull to domestic animals as well as humans.
- 2. Material Safety Data Sheets (MSDS) provide information about the chemical substances within a product, safe handling and storage procedures, first aid measures and procedures to be taken in the event of a spill or accidental release. MSDS are available from your dealer.
- Before you service your machine check the MSDS for each lubricant, fluid, etcetera. used in this machine. This information indicates the associated risks and will help you service the machine safely. Follow the information in the MSDS, on manufacturer containers, as

Starting up the implement safely

Before you attach the implement to the tractor, ensure that the tractor is in good working order and that the brakes are efficient, particularly if you operate on hilly ground. Also, ensure that the hydraulic or pneumatic system is compatible with that of the implement.

When you attach the implement to the tractor:

- Never allow anyone to stand between the tractor and the implement. An unintentional manoeuvre with the tractor may cause serious injury.
- Never go under an unsupported implement.

Install all the guards correctly before you use the implement.

Replace worn and damaged canvases before you work with the implement.

Make sure that you are thoroughly familiar with the instruments and controls before you engage the Power Take-Off (PTO) drive for the first time.

The PTO shaft has its own instruction manual that the manufacturer supply with the implement. To ensure the correct use of the shaft, follow all the instructions of the manufacturer manual. Pay particularly close attention to the safety and maintenance instructions, in order to prevent unintentional injury and damage.

Do not use Power Take-Off (PTO) drive shafts with other specifications than the shaft which was supplied with the implement.

Before you install the PTO drive shaft, check that the Revolutions Per Minute (RPM) and direction of the PTO on the tractor match those of the PTO on the implement. well as the information in this manual when you service the machine.

- 4. Dispose of all fluids, filters and containers in an environmentally safe manner in accordance with local laws and regulations. Check with local environmental and recycling centers or your dealer for correct disposal information.
- 5. Store fluids and filter in accordance with local laws and regulations. Use only appropriate containers for the storage of chemicals or petrochemical substances.
- 6. Keep out of reach of children or other unauthorized persons.
- 7. Additional precautions are required for applied chemicals. Obtain complete information from the manufacturer or distributor of the chemicals before you use them.

Repair immediately a damaged PTO shaft before you work with the implement.

Always stop the PTO and the tractor engine and remove the ignition key before you connect the PTO drive shafts.

After you attach the implement to the tractor, ensure that the Power Take-Off (PTO) lock pin is properly engaged in the tractor Power Take-Off shaft. An incorrectly locked PTO shaft could work loose and cause accidents or damage to the implement.

Make sure to install and secure the PTO drive shaft correctly. Check that the lock pin is in mesh. Fasten the support chain at both ends.

Always make sure that the guard tubes do not separate at the maximum working or transport length of the PTO drive shaft. Check also that the guard tubes do not jam at the minimum working or transport length of the PTO drive shaft.

Unless the protective guards, the PTO drive shaft may cause serious injury. Be careful not to damage the guards when you connect the PTO drive shaft to or from the tractor.

Fit correctly the guards on the PTO drive shaft. Secure the guard of the PTO shaft with the chain.

Before you start up the implement (for example the first time after a long standstill period), make sure that there are no detached loose parts on the drive line area and on the moving parts of the implement.

Traveling on public roads

Comply with the relevant traffic regulations

AWARNING

Impact hazard!

Take care when making turns. The machine rear end swings out when changing direction. Failure to comply could result in death or serious injury.

W0089A

A WARNING

Loss of control hazard!

Uneven brake force exists on left-hand and right-hand brakes. Always use brake pedal coupler when traveling on public roads to ensure brakes are actuated together. Failure to comply could result in death or serious injury.

The implement is built according to the homologation requirements of your country. Do not modify the implement in a sense that would conflict with the national regulations.

If you wish to transport the implement on the public road, make sure that the combination tractor and implement observes the traffic rules in your country. This gives you and your surroundings the best possible safety.

The operators must observe relevant statutory or other national regulations that deal with road safety and labor safety issues.

Before you drive the implement on public roads:

- Check the allowable transport dimensions and weights.
- Install correctly the lighting and the warning panels.

Always observe the principles for permissible axle loads, the total unit mass and the transport gauge.

Observe the tractor manufacturer regulations and recommendations, specifically those relating to maximum transport loads and maximum speed.

Even in similar circumstances, the maximum allowed speed can vary depending on which country you travel in.

Always drive with the statutory lights and safety marking during transport on public road and at night.

Install all the required signs that indicate the vehicle width. Also install all the required lights that indicate the vehicle width during the nightly transport. If in doubt, contact your government department responsible for road transport.

Travel may be restricted to certain road types. Transport may be restricted to daytime or outside peak traffic hours. However plan your route to avoid heavy traffic and peak traffic hours.

Passengers

Do not allow passengers to ride in the tractor unless a specific seat is provided.

During transport, the transportation of people on the top of the implement is strictly forbidden.

Transport safety

Transport the implement only in transport position. Secure the implement for transport. Always activate the mechanical transport safety devices before transport.

Make sure to fit all the hitch pins with retaining pins correctly. Mechanically secure the hydraulic cylinders to prevent cylinders from creeping.

Drive safe

Do not drive under the influence of alcohol or drugs.

Never travel at speed in crowded areas.

When you maneuver the tractor with the implement, always be aware and conscious of its size.

The tractor driver must not leave the cabin during transport.

Always consider other road users.

Always adopt safe driving practices. Slow down and signal before turning. Give way to oncoming traffic in all situations, including narrow bridges, intersections etcetera. Pull over to allow faster traffic to pass.

If the implement is marked with a maximum speed limit, never exceed this maximum speed limit.

Always adjust the driving speed to the road and weather conditions. In case of bad road conditions and high driving speeds, big forces may occur and cause overload of tractor and implement.

Drive at a safe speed to ensure control and ability to stop in an emergency.

Lock the tractor brake pedals together. Never use independent breaking at transport speeds.

Mounted implements and ballast weights influence the driving, steering and braking capacity of the tractor. Make sure that the additional weight of the implement on the linkage does not compromise driving, steering and braking capacity of the tractor. Install front weights or repair the brakes if the tractor is not safe to drive.

Reduce speed during turns. Tractors have not been designed for fast turning. Avoid that the rear end of the implement hits an obstacle. When you turn during transport pay attention to the overhang and/or oscillating weight of the implement.

Use engine braking when you drive down hills. Do not coast.

Watch for obstructions, particularly if over-width. Observe any load ratings applicable on bridges.

After you finish the transport, before you leave the tractor, always lower the implement to the ground in parking position, turn off the tractor engine, pull the parking brake, and remove the key from the ignition.

Operating the implement safely

Hazard to bystanders!

Always sound the horn before starting the machine. Make sure the work area is clear of other persons, domestic animals, tools, etc. before you operate the machine. Never allow anyone in the work area during machine operation.

Failure to comply could result in death or serious injury.

W0304A

A WARNING

rious injury.

Rotating parts! Keep clear of all drives and rotating components. Failure to comply could result in death or se-

W1101A

NOTE: Only put the implement into operation according to the instructions from the dealer.

Never operate the implement under the influence of alcohol, drugs, or while otherwise impaired.

Avoid using the implement in unsuitable field and weather conditions. It is better to stop work temporarily rather than to operate in such conditions.

Keep people away from the implement during operation. Ask bystanders to leave the field. There is the risk for bystanders to be overrun by the implement. Stop the implement immediately if someone approaches.

The tractor or its implement may strike or crush against a person or pet within the operator area of the tractor. DO NOT allow anyone to enter the work area. Make sure that the area is clear and operation is safe before you move the implement.

When you operate the implement, always remain seated in the tractor cab. Operate controls only when seated in the tractor seat, except for those controls expressly intended for use from other locations.

While in operation, the transportation of people on the top of the implement is strictly forbidden.

Never attempt to remove residues from the implement while the implement runs. Such an imprudence could cost life or limb. Always disengage the Power Take-Off (PTO) shaft mechanism, switch OFF the tractor engine and apply the parking brake before you remove residues.

During the daily work you must consider that loose stones and foreign matter on the ground might get in contact with the revolving parts and get thrown out again at a very high speed. Therefore, before you operate the implement make sure that all safety guards are intact, properly fitted and secured.

Before you raise or lower the implement with the link arms of the tractor, check that nobody is near the implement or touches the implement.

Always operate the implement at a safe speed in accordance with the ground conditions. On uneven ground, proceed with the utmost caution to ensure proper stability.

When you turn on hillsides always be careful when you lift the implement with the 3-point linkage because there is a risk of overturning. Adjust the speed to these conditions.

Drive in a low tractor gear if you work on hillsides.

When you drive up and down and across hillsides, avoid sharp turns.

When you turn during operation, pay attention to the overhang and/or oscillating weight of the implement.

Avoid changing direction abruptly, especially when you reverse, to avoid dangerous pitching of the implement.

When you work with the implement keep a safe distance from steep slopes and similar ground conditions, as the ground may be slippery and pull the implement and the tractor sideways. Also remember to adjust the speed for sharp turns when you drive on hillsides.

Pay the necessary attention while you operate next to public roads or footpaths.

Stopping the implement safely

A WARNING

Moving parts!

Some components may continue to run after disengaging the drive systems. Make sure all drive systems are fully disengaged and all movement has stopped before servicing the machine.

Failure to comply could result in death or serious injury.

Always interrupt the operation of the implement before you leave the tractor seat.

For safety's sake never leave the tractor cab without first to disengage the Power Take-Off (PTO) shaft mechanism and to stop the tractor engine. Furthermore, if you leave the tractor unattended, always remove the ignition key.

Stop the tractor engine and the PTO shaft and wait until the implement has completely stopped before you open any of the safety guards. There are rotating parts under the safety guards which may continue rotating after the implement has been stopped. Look and listen for evidence of rotating parts before you open any of the safety guards.

Make sure to secure the tractor by means of the hand brake and/or stop blocks if you need to stand between the tractor and the implement.

When, due to exceptional circumstances, you would decide to keep the tractor engine running after leaving

the tractor cab, then the following precautions must be followed:

- Bring the tractor engine to low idle speed.
- Disengage all drive systems.
- Shift the tractor transmission into neutral.
- Apply the parking brake.

When you park the implement there are some operational risks which may cause personal injury. Therefore, you must:

- Make sure that the ground is firm and even during parking.
- Make sure that tractor and implement cannot move.
- · Always lower the implement to the ground.
- Stop the tractor engine and remove the ignition key.
- Use correct support or transport safety device when the implement is parked. Make sure that the parking stand is secured.

When you detach the implement from the tractor:

- Always detach the implement carefully and on a flat surface to prevent damage.
- Make sure that nobody stands in front of the implement.
- Never allow anyone to stand between the tractor and the implement.
- Never go under an unsupported implement.

Maintenance

Maintenance hazard! Before you start servicing the machine, attach a DO NOT OPERATE warning tag to the machine in a visible area. Failure to comply could result in death or serious injury.

- Follow the maintenance schedule with regard to the implement servicing intervals. Remember that the implement requires attention from time to time. Also remember that the maintenance will
- greatly extend the life of the implement.Take the necessary precautions: not to spill any oil, fuel or grease.

To avoid oil and grease contact with your skin, wear protective gloves.

- Service the implement on a firm level surface.
- Do not attempt to remove material from any part of the implement, clean, lubricate or carry out any adjustments on the implement while it is in use.
- Keep hands, feet and/or garments away from parts which move. Check that all rotating parts have a suitable protective guard.
- Raised implement and/or loads can fall unexpectedly and crush persons underneath. Never enter or allow anyone to enter the area underneath raised implement during operation.

Unsupported hydraulic cylinders can lose pressure and drop the implement and cause a crushing hazard. Do not leave the implement in a raised position while parked or during service, unless securely blocked on wooden blocks.

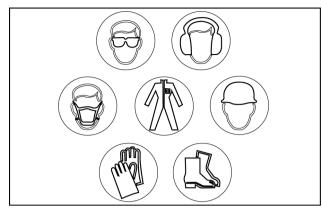
• Never work under a raised implement unless a support chain or other mechanical securing device secure the

link arms of the tractor so that the implement cannot move to a lower position unintentionally.

- Relieve the pressure, stop the engine and remove the ignition key, before you connect or disconnect fluid lines.
- Before you adjust, clean, lubricate or you carry out repairs on the implement, stop the engine and remove the ignition key.
- Never adjust the implement while the Power Take-Off (PTO) drive shaft is engaged. Do not to remove the guards until all revolving parts have stopped.
- Any leakage of hydraulic oil or fuel under pressure may cause severe harm, so always use a shielding, goggles and gloves when you trace oil or fuel leaks.
 Do not use your hand to check for leaks. Use a piece of cardboard or paper.
- Continuous long term contact with hydraulic fluid may cause skin cancer. Avoid long term contact and wash the skin promptly with soap and water.
- If hydraulic fluid or diesel penetrates the skin, seek medical care immediately.
- Observe all recommendations that are mentioned in this manual such as service intervals, torques, lubricants, etcetera.
- Always replace all parts that have damage or wear.
- Never build flexible hose assemblies from hoses that were previously part of a hose assembly.
- Never weld to the tubes.
- Always use gloves when you work with parts on the implement as the parts can have sharp edges.
- Transmission and hydraulic lines may become hot during operation. Be careful when you service such components. Allow surfaces to cool before you handle or disconnect hot components. Wear protective equipment when required.

Personal Protective Equipment (PPE)

Wear Personal Protective Equipment (PPE) such as protective clothing, eye protection, hearing protection, dust mask, hard hat, heavy gloves, work boots, and/or any other PPE that provides for the safety and protection of the individual that operates this equipment.



NHIL13RB00001AA

Safety requirements for fluid power systems and components - hydraulic systems

Before you start the engine or pressurize the hydraulic system, install and tight correctly all the hydraulic couplings. Check that all hoses and fittings are undamaged. Replace immediately damaged components.

Only connect the hydraulic hoses to the tractor outlets if the tractor and the implement are pressure-free. If the hydraulics of the tractor is activated it may lead to uncontrolled movements which may cause secondary damage.

Never modify a hydraulic accumulator by machining, welding or any other means. Before you remove a hydraulic accumulators to service, the liquid pressure in the accumulator must be reduced to zero.

Use the method recommended by the accumulator manufacturer to check the pressure on a hydraulic accumulators. Do not exceed the maximum allowable pressure of the accumulator. After any check or adjustment there must be no leakage of gas.

Make sure that no persons are near the implement when you start the implement, as there might be air in the hydraulic system which might lead to sudden movements.

When the tractor engine has stopped, activate the tractor hydraulic spool valves to make sure that there is no pressure in the hydraulic hoses.

To expel all the air from the oil in the hydraulic cylinders, test all the functions after you connect the hydraulic connections to the tractor, especially before you enter or drive on the public roads.

Noise emission

The measuring and reporting of the noise level were carried out according to ISO 5131.

The noise level of **70 dB** was measured in the cabin of the tractor where the head of the operator is usually situated.

Use hearing protectors if the noise from the implement is annoying or if you work with the implement for a considerable period in a tractor cabin that has not a adequate soundproof cabin.

Vibration levels

Install all revolving parts correctly before you start the implement. An unbalance can create vibrations that damage the implement.

NOTE: You must check that the all part are in the correct position before start the implement.

NOTE: If the vibrations or the noise of the implement increase considerably during the operation, stop the work immediately. Correct the fault before you continue the work.

Implement stability

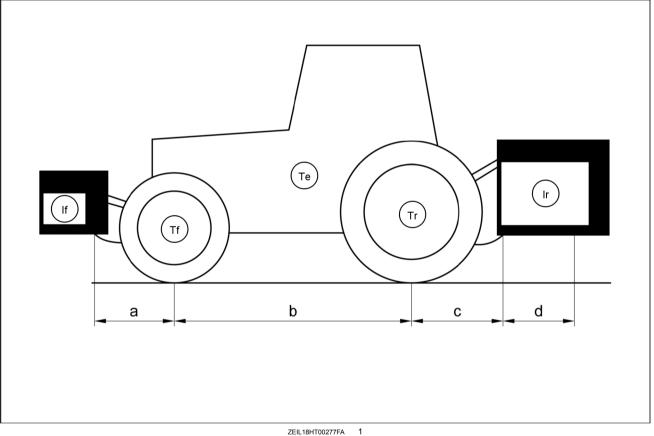
The combination of your tractor and implement can become unstable, due to the additional weight that the implement adds to the tractor.

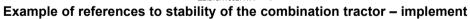
In order to guarantee stable and safe transport, you must check if you need ballast weights for transport and field work.

You must also check and guarantee that you have at least 20% from the tractor weight on the front axle.

For rear mounted implements and front-rear combinations, the formula is:

If,min =
$$\frac{[Ir x (c + d)] - (Tf x b) + (0,2 x Te x b)}{a + b}$$





List of signs

•	
Te [kg]	The tractor own weight.
Tf [kg]	Front axle load with empty tractor.
Tr [kg]	Rear axle load with empty tractor.
lr [kg]	Total weight of the rear-mounted implement/rear ballast.
lf [kg]	Total weight of the front-mounted implement/front ballast.
a [m]	Distance between the center of gravity of the front-mounted implement/front ballast and the middle of the front axle.
b [m]	The tractor wheel distance.
c [m]	Distance between the middle of the rear axle and the middle of the link arm balls.
d [m]	Distance between the middle of the link arm balls and the center of gravity of the rear mounted implement/rear ballast.

Ecology and the environment

Soil, air, and water quality is important for all industries and life in general. When legislation does not yet rule the treatment of some of the substances that advanced technology requires, sound judgment should govern the use and disposal of products of a chemical and petrochemical nature.

Familiarize yourself with the relative legislation applicable to your country, and make sure that you understand this legislation. Where no legislation exists, obtain information from suppliers of oils, filters, batteries, fuels, anti-freeze, cleaning agents, etc., with regard to the effect of these substances on man and nature and how to safely store, use, and dispose of these substances. Your KONGSKILDE dealer can also provide assistance.

Helpful hints

- Avoid the use of cans or other inappropriate pressurized fuel delivery systems to fill tanks. Such delivery systems may cause considerable spillage.
- In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of these products contain sub-stances that may be harmful to your health.
- Modern oils contain additives. Do not burn contaminated fuels and or waste oils in ordinary heating systems.
- Avoid spillage when you drain fluids such as used engine coolant mixtures, engine oil, hydraulic fluid, brake fluid, etc. Do not mix drained brake fluids or fuels with lubricants. Store all drained fluids safely until you can dispose of the fluids in a proper way that complies with all local legislation and available resources.
- Do not allow coolant mixtures to get into the soil. Collect and dispose of coolant mixtures properly.
- Do not open the air-conditioning system yourself. It contains gases that should not be released into the atmosphere. Your KONGSKILDE dealer or air-conditioning specialist has a special extractor for this purpose and can recharge the system properly.
- Repair any leaks or defects in the engine cooling system or hydraulic system immediately.
- Do not increase the pressure in a pressurized circuit as this may lead to a component failure.

Battery recycling

Batteries and electric accumulators contain several substances that can have a harmful effect on the environment if the batteries are not properly recycled after use. Improper disposal of batteries can contaminate the soil, groundwater, and waterways. KONGSKILDE strongly recommends that you return all used batteries to a KONGSKILDE dealer, who will dispose of the used batteries or recycle the used batteries properly. In some countries, this is a legal requirement.



NHIL14GEN0038AA 1

Mandatory battery recycling

NOTE: The following requirements are mandatory in Brazil.

Batteries are made of lead plates and a sulfuric acid solution. Because batteries contain heavy metals such as lead, CONAMA Resolution 401/2008 requires you to return all used batteries to the battery dealer when you replace any batteries. Do not dispose of batteries in your household garbage.

Points of sale are obliged to:

- Accept the return of your used batteries
- · Store the returned batteries in a suitable location
- Send the returned batteries to the battery manufacturer for recycling

Safety signs

The following safety signs are on your implement as a guide for your safety and for the safety of those who work with you.

Walk around your implement and note the significance and location of all safety signs before you operate your implement. Read all the safety signs adhered to the implement and follow the instructions.

Keep all safety signs clean and legible. Clean safety signs with a soft cloth, water, and a gentle detergent.

NOTICE: Do not use solvent, gasoline, or other harsh chemicals. Solvents, gasoline, and other harsh chemicals may damage or remove the safety signs.

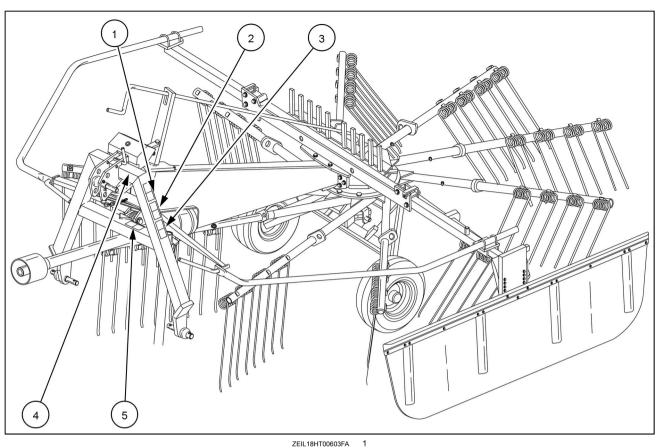
Replace all safety signs that are damaged, missing, painted over, or illegible. If a safety sign is on a part that you or your dealer replaces, make sure that you or your dealer install the safety sign on the new part. Contact your dealer for the replacement of the safety signs.

Safety signs that display the "Read operator's manual" symbol direct you to the operator's manual for further information regarding maintenance, adjustments, or procedures for particular areas of the implement. When a safety sign displays this symbol, consult the appropriate page of the operator's manual.

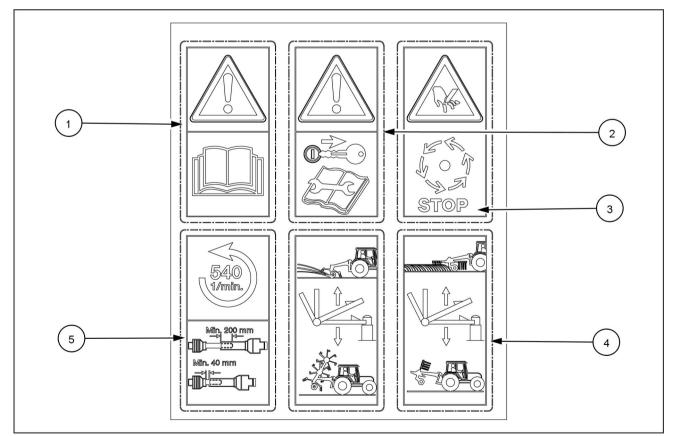
Safety signs that display the "Read service manual" symbol direct you to the service manual. If you doubt your ability to perform service operations, contact your dealer.







ZEIL18HT00603FA



1650220 2 Part number: 1650220

Safety sign (1)

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE DEATH OR SERIOUS INJURY. MAKE SURE THAT EVERY OPERATOR: -is instructed in the safe and proper use of this

machine. -reads and understands the operator's manual for this machine.

-reads and understands ALL safety signs on the machine.

Failure to comply could result in death or serious injury.

W0188A

Read the operator's manual and the safety instructions before you operate the implement.

Read the delivered manuals to operate the implement correctly and to avoid unnecessary accidents and implement damage.

Part of part number: 1650220

Safety sign (2)

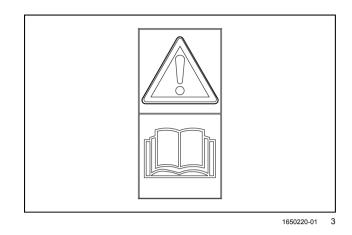
Avoid injury! Always do the following before lubricating, maintaining, or servicing the machine.

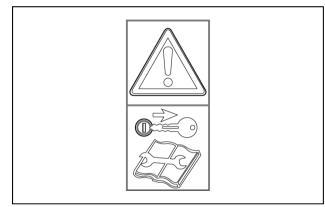
- 1. Disengage all drives.
- 2. Engage parking brake.
- 3. Lower all attachments to the ground, or raise and engage all safety locks.
- 4. Shut off engine.
- 5. Remove key from key switch.
- 6. Switch off battery key, if installed.
- 7. Wait for all machine movement to stop.

Failure to comply could result in death or serious injury. W0047A

Always stop the tractor engine before you adjust, maintain, repair, or lubricate the implement. Also remember to remove the ignition key. Make sure that nobody starts the engine, until you have finished.

Part of part number: 1650220





1650220-02 4

Safety sign (3)

Pinch hazard! Wait for all movement to stop before you service or adjust the machine or equipment. Failure to comply could result in death or servicus injury.

W1420A

Moving parts are dangerous and if the moving parts come in contact to your body the moving parts can pinch your body.

The hazard may cause severe injuries to the entire body, with possible lethal effect.

To avoid the hazards, wait until all moving elements have completely stopped before you touch the moving elements.

Part of part number: 1650220

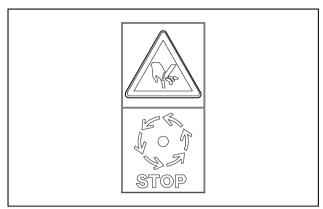
Safety sign (4)

The safety sign the position of the lock when the implement is in transport position or in working position.

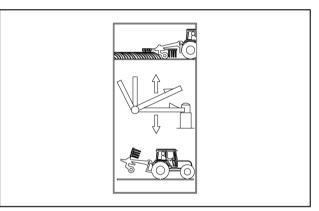
Open the lock when the implement is in working position.

Engage the lock when the implement is in transport position.

Part of part number: 1650220



1650220-04 5



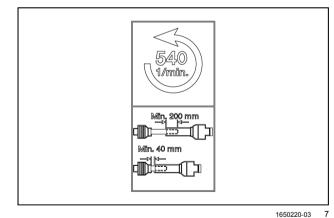
1650220-06 6

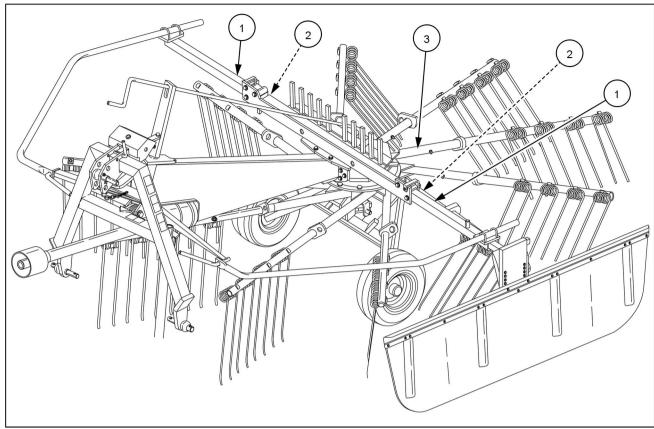
Safety sign (5)

The safety sign indicates the maximum Revolutions Per Minute (RPM) (**540 RPM**) and the direction of rotation of the Power Take-Off (PTO) shaft.

Reference to the minimum overlapping on the profile tubes and the minimum distance required not to bottom the shaft.

Part of part number: 1650220





Road travel and/or informational decals

ZEIL18HT00603FA 1

Decal (1)

Rear reflector red

Part number: 1400900

Decal (2)

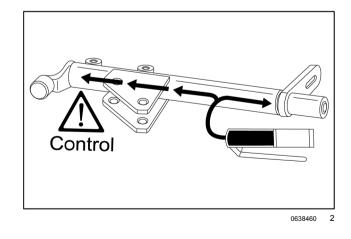
Rear reflector yellow

Part number: 1400920

Decal (3)

The decal indicates the reference for the lubrication of the bearing arms.

Part number: 0638460



3 - CONTROLS AND INSTRUMENTS

Information

Operating principles

For all information related to the description and the location of the controls to use your implement, see chapter "Controls and Instruments" in the operator's manual of your vehicle.

4 - OPERATING INSTRUCTIONS

Commissioning the unit

Check before use

Before you operate the implement for the first time:

- 1. Check that all tine arms are secured correctly with the linchpin.
- 2. Check that the implement is undamaged.
- 3. Check that the implement is free from all the tools.
- 4. Check the tightness of all bolts and nuts.
- 5. Check the greasing of all the lubrication points.
- 6. Check the tire pressure and adjust as necessary.
- 7. Check that the engine of the tractor runs at the idle speed before to start the Power Take-Off (PTO).
- 8. Check that the area around the implement is free.
- 9. Perform a functional test.

Starting the unit

Connection to the tractor

WARNING

Crushing hazard!

Use care when you connect and disconnect the machines. Never stand between the tractor and the implement when you connect the link arms.

Failure to comply could result in death or serious injury.

W1545A

Crushing hazard!

Do not stand or place any body part between the implement and a moving tractor. Stop the tractor engine and set the parking brake before you attach cables and hoses.

Failure to comply could result in death or serious injury.

W1544A

Hitching hazard!

Always keep the area between the tractor and the implement clear of all persons while the tractor or three-point hitch is in motion. Lock the tractor transmission in Park and engage the parking brake(s) before you allow anyone to complete hitching or unhitching.

Failure to comply could result in death or serious injury.

W1540A

Three point suspension on the tractor

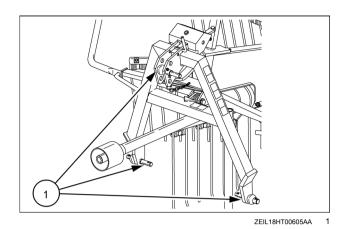
Connect the implement to the three point suspension of the tractor.

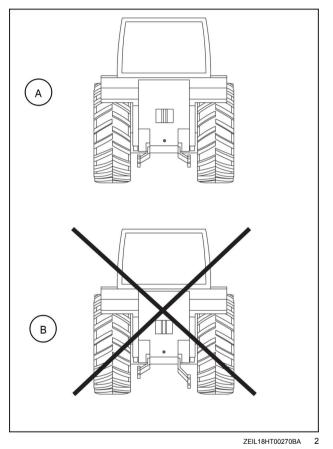
The hitch pins (1) of the implement can be mounted with the following categories:

- Category I: inside
- Category II: outside

Minimize the sideways movement of the bearing arm on the tractor to avoid oscillations of the implement during work and transport. Secure the bearing arms with limiting chains or other locking device. Adjust the bearing arms of the tractor so that the bearing arms are at the same height above the ground at the two sides.

- Correct height of the bearing arms (A)
- Wrong height of the bearing arms (B)





4-3

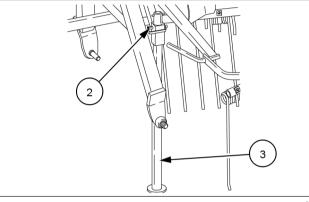
Connection of the rotary rake to the tractor

NOTICE: Never stand between the tractor and the implement during connection to the tractor.

NOTE: The instructions are based on a fully mounted implement in locked transport position with the jack folded down.

To connect the implement to the tractor:

- 1. Reverse the tractor to the implement.
- 2. Connect the balls on the pins on the suspension of the implement to the bearing arms of the tractor.
- 3. Secure the link arm balls with clip pin (size 12).
- 4. Fold down the top link on the tractor and connect the top link to the upper ball on the suspension of the tractor.
- 5. Secure the top link bolt with a spring pin.
- 6. Raise the implement with the link arms until you raise the jack (3) from the ground.
- 7. Remove the latch pin (2) and push up the jack (3).



ZEIL18HT00606AA 3

Power Take-Off (PTO) shaft connection

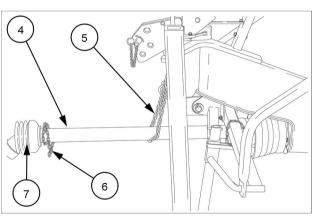
NOTICE: To install and remove the Power Take-Off (PTO) shaft, stop the engine.

NOTICE: Only use the supplied PTO shaft or the PTO shaft that the manufacturer approve.

Adjust the length of the PTO shaft to the tractor before you perform the following steps. If you use the implement with different tractors, check that the PTO shaft has the correct length.

NOTICE: The safety guards on the tractor side and on the implement side there must be intact.

- 1. Release the PTO shaft (4) from the support chain (5).
- 2. Push the PTO shaft (4) onto the tractor PTO shaft until you engage the locking balls.
- 3. Secure the safety guard of the PTO shafts with the safety chain (6) on the tractor side. On the implement side there is a full-covering protection (7).



ZEIL18HT00607AA 4

Power Take-Off (PTO) shaft – Shorten

Power Take-Off (PTO) shaft length

NOTE: Do not shorten your new Power Take-Off (PTO) shaft until you are certain that it is necessary. From the factory the distance from PTO to Power Input Connection (PIC) is standard on most tractor brands.

Check the length of the PTO shaft for each tractor prior to first use.

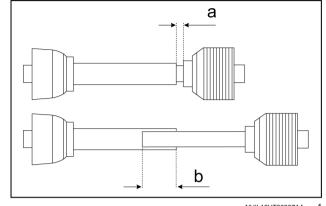
If it is still necessary to shorten the PTO shaft, the profile tubes of the PTO shaft must fully comply with the following overlapping measures.

- The sliding tubes must have as much overlap as possible, with an acceptable minimum overlap (b) of 200 mm (7.87 in) during normal operation (Top Safe extension links in the normal position).
- There must be a minimum of **40 mm** (**1.6 in**) of free PTO shaft length **(a)** to prevent the shaft from bottoming out.

Determining the required shaft length

When you determine that you must shorten the PTO shaft, select the length so that the telescoping members never close completely or bottom out when in use. The PTO length must never be smaller than the minimum distance between the joints.

- 1. Attach the implement to the tractor without the PTO shaft.
- 2. Adjust the three-point hitch so that the PTO shaft is parallel with the ground.
- 3. Stop the tractor and engage the parking brake.
- Determine if the PTO shaft bottom out in this position. If the PTO shaft bottoms out in this position or if the free length is less than 40 mm (1.6 in), proceed with the procedure to shorten the PTO shaft.



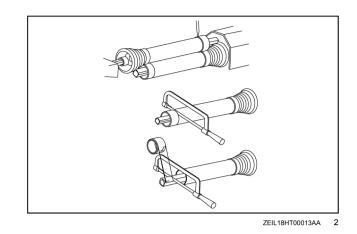
Shortening the PTO shaft

To shorten the PTO shaft proceed as follows.

- 1. Fasten the PTO shaft half parts to the PTO (on the tractor) and the PIC (on the implement). The PTO shaft half parts must be at the same horizontal level, opposite each other at the shortest distance from the tractor.
- 2. Make sure that a minimum overlap of **200 mm** (**7.87 in**) exists.
- Check that the PTO shaft does not bottom out at one end. Keep the shaft ends parallel to each other and mark the minimum distance of 40 mm (1.6 in). Only cut enough PTO shaft off to achieve this minimum free shaft length. This will maintain the maximum amount of PTO shaft overlap.
- 4. Shorten all four tubes equally.
- 5. Round off the ends of the profile tubes and remove the burrs carefully.
- 6. Remove the metal shavings.

NOTICE: To avoid big friction forces, grease the tube carefully before you reassemble the tube. Use **NLGI 2**.

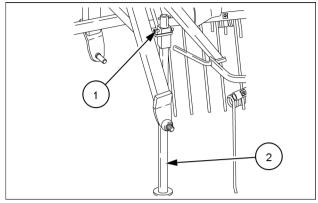
NOTE: If you shorten the PTO shaft, then you must check the minimum overlap and the minimum distance again if you operate the implement with a different tractor.



Parking the unit

Disconnection and parking

- 1. Place the implement on a firm and level ground.
- 2. Disconnect all the hydraulic couplers.
- 3. Disconnect the electrical connection.
- 4. Disconnect the Power Take Off (PTO) shaft from the tractor. Support the PTO with the chain.
- 5. Place wheel chocks as follows:
 - $_{\odot}\,$ On a flat surface: one in front of, and one behind a wheel.
 - On a slope: one chock per wheel, either in front of, or behind the wheel, depending on the incline.
- 6. Lower the jack (2). Secure with the latch pin (1).
- 7. Release the implement from the tractor.



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5 - TRANSPORT OPERATIONS

Road transport

Transport position

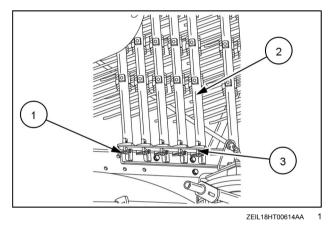
NOTE: Implements and ballast weights change the driving, steering and braking capacity of the tractor. Ensure a better weight distribution to the front axle of the tractor.

To set the implement in transport position:

- 1. Disassemble the tine arms.
- 2. Place the safety frame in transport position.
- 3. Place the swath canvas in transport position.
- 4. Activate the transport lock.

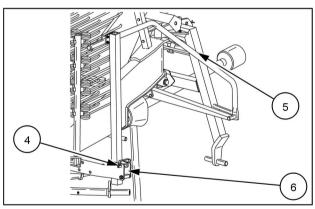
To disassemble the tine arms:

- 1. Remove the linchpin (1) on the bearing arm.
- 2. Remove the tine arm assembly (2) from the bearing arm and place the tine arm assembly on the holder (3) above the rotor gear.
- 3. Secure the tine arm assembly with linchpin so that the tine arm assembly cannot fall off.



To place the safety frame in transport position:

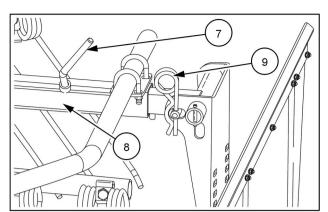
- 1. Remove the spring pin (4).
- 2. Fold up the safety guard (5) to vertical position.
- 3. Place the spring pin (4) in the same hole.
- Make sure that the spring pin (4) also goes through the fish plate of the support tube (6) to secure the safety guard (5).



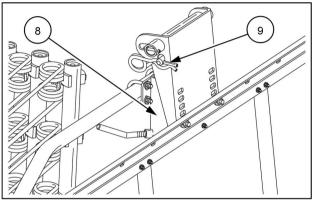
ZEIL18HT00616AA 2

To place the swath guard in transport position:

- 1. Loosen the handle (7).
- 2. Push the swath canvas (8) to the end of support tube of the safety frame.
- 3. Tighten the handle (7).
- 4. Remove the spring pin (9).
- 5. Push the swath canvas (8) forward and move swath canvas (8) down vertical.
- 6. Push the swath canvas (8) to the rear until the swath canvas (8) is fixed with the pin in the oblong hole.
- 7. Place the spring pin (9).



ZEIL18HT00617AA 3

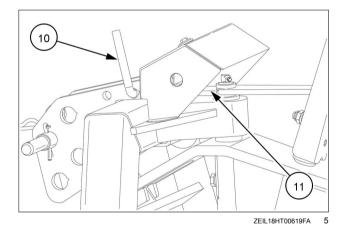


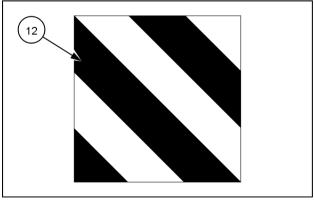
ZEIL18HT00618AA 4

To activate the transport lock:

- 1. Lift the implement with the top link arm to raise the wheel axle from the ground.
- 2. Move the handle **(10)** to the rear to set the plate **(11)** in front of the pin of the main frame and to block the movements of the suspension.

Install the red and white reflecting warning panel (12) if equipped.





ZEIL18HT00279AA 6

Connect the lighting system (if equipped) with a seven pole plug to the socket on the rear side of the tractor.

NOTICE: After the connection check the function of the lighting system. Dirt and moisture can cause contact problems or even short circuit. You must keep the plug connection clean and dry.

6 - WORKING OPERATIONS

General information

Working position

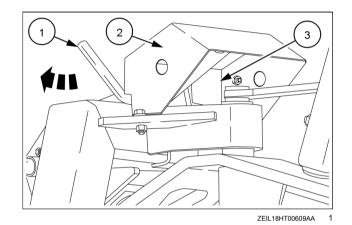
Release of the transport lock

To set the rake in working position:

- 1. Release the transport lock.
- 2. Place the tine arms on the bearing arms.
- 3. Put the safety guard in working position.
- 4. Put the swath canvas in working position.

To release the transport lock:

- 1. Secure properly the plate (3) of the lock at the top by the magnet (2).
- 2. Move forward in direction of the tractor the handle (1) for the transport lock.



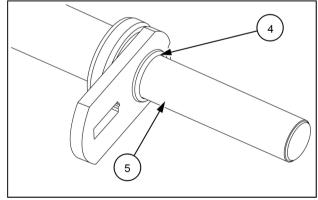
NOTE: Install all the tine arms before to start the machine in order not to create an unbalance.

To place the tine arms on the bearing arms:

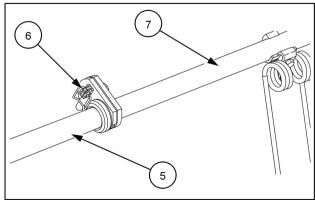
- 1. Check that the seal ring (4) on the bearing arm (5) is not wear.
- 2. Take the tine arms from the back of the holder above the rotor gear.
- 3. Take off the linchpin (6) on the rake arm.
- 4. Lift the tine arms (7) from the holder.
- 5. Push the tine arm (7) onto the bearing arm (5).

NOTE: this way the fishplate on the tine arm is through the slot in the bearing arm.

Install the linchpin (6) in the fishplate of the tine arm (7).





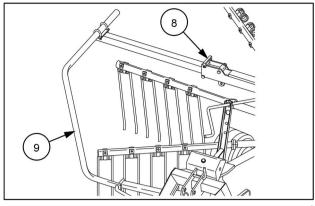


ZEIL18HT00283AA 3

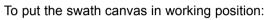
To put the safety frame in working position:

- 1. Remove the spring pin (8).
- 2. Fold down the safety guard (9).
- 3. Place the spring pin (8) above the support tube of the safety guard (9) in the same holes.

NOTE: Perform this operation on both left-hand side and right-hand side.



ZEIL18HT00612AA



- 1. Loosen the tommy screw (10).
- 2. Pull the swath canvas completely.
- 3. Tighten the tommy screw (10).
- 4. Remove the spring pin (11).
- 5. Push the swath canvas forward until the oblong hole in the swath safety guard holder is free.
- 6. Move the swath canvas down to vertical position.
- 7. Push the swath canvas to the rear until the pin fixes the position.
- 8. Place the spring pin (11).

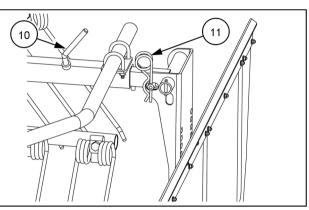
Working in the field

Working speed and number of revolutions

The working speed and the number of rpm during raking depend on the type and amount of crop, the dry matter content and the ground conditions.

You can use a guide, the number of revolutions of the Power Take-Off (PTO) approximately of 380 - 450 RPM, and the driving speed approximately of 8 - 12 km/h (5 - 7.5 mph).

You can adjust these values with the working conditions.



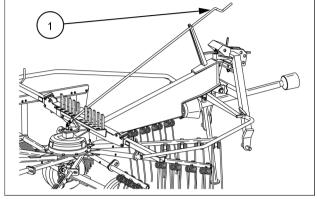
ZEIL17HT00216AA 5

Basic adjustment

Adjustment of working depth

- 1. Turn the depth control crank (1) to adjust the working depth of the rake tines.
- 2. turn the depth control crank (1) to the right-hand side to reduce the distance of the rake tines from the ground.

NOTE: If you adjust the tines too low there is danger of contamination of the feed and damage to the grass roots.



ZEIL18HT00620AA 1

3. Turn the depth control crank (1) to the left-hand side to increase the distance of the rake tines from the ground.

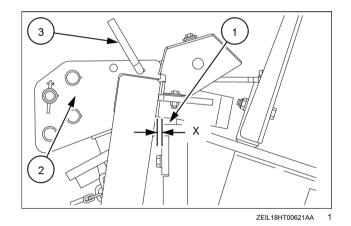
NOTE: If you adjust the tines too high, you cannot obtain a clean raking.

Top link adjustment

Adjust the length of the top link to have the best steering angle of the suspension.

To adjust the length of the top link move the suspension (1) backward to obtain a distance (X) of 2 - 4 mm (0.1 - 0.2 in) between the suspension (1) and the top link (2).

NOTE: The lever (3) of the top link adjustment must be in working position.



Rotor inclination adjustment

Adjustment in direction of travel

The rotor must be horizontal when you check the rotor from the side of the implement.

In case of large amount of crop a small inclination forward can be an advantage.

To make this adjustment:

- 1. Lower the link arms until the tines do not damage the grass roots.
- 2. Adjust the top link length. See Page 6-3.

Transverse adjustment

The transverse adjustment ensures the perfect raking and the optimal swath shaping.

In case of very large amounts of crop you should increase the downwards inclination of the rotor in the swath safety guard side.

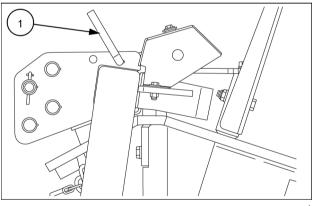
To adjust the transverse inclination reduce the left tire pressure.

NOTE: The pressure must be higher than **1.2 bar** (**17.4 psi**).

Adjustment with extra support wheel (optional)

To adjust the rotor inclination in direction of travel with the support wheel:

- 1. Put the lever (1) in working position.
- 2. Put the lever of the hydraulic valve for the adjustment of the lower link in floating position.
- 3. Act on the height of the support wheel.

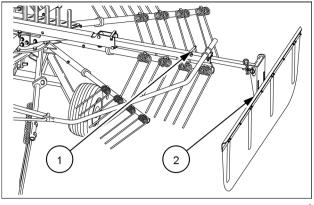


ZEIL18HT00621AA 1

Working width adjustment

To adjust the working width:

- 1. Loosen the tommy screw (1).
- 2. Move the swath canvas (2) to the correct position.
- 3. Tighten the tommy screw (1).



ZEIL18HT00622AA 1

7 - MAINTENANCE

General information

Recommendations

WARNING

Avoid injury! Always do the following before lubricating, maintaining, or servicing the machine.

- 1. Disengage all drives.
- 2. Engage parking brake.

3. Lower all attachments to the ground, or raise and engage all safety locks.

4. Shut off engine.

5. Remove key from key switch.

6. Switch off battery key, if installed.

7. Wait for all machine movement to stop.

Failure to comply could result in death or serious injury.

W0047A

Moving parts!

Some components may continue to run after disengaging the drive systems. Make sure all drive systems are fully disengaged and all movement has stopped before servicing the machine.

Failure to comply could result in death or serious injury.

W0002A

Maintenance hazard!

If the implement is still attached to a tractor, observe the following precautions before performing any lubrication or maintenance:

1. Shut off the tractor engine and remove the ignition key.

2. Disengage the Power Take-Off (PTO) drive.

3. Engage the tractor parking brake.

4. Engage the machine parking brake. Failure to comply could result in minor or moderate injury.

C0082A

To ensure the implement a long life and to avoid unnecessary wear, observe the following instructions.

Park the tractor safely and disconnect the implement.

Always activate the parking brake and stop the tractor engine before you:

- Lubricate the implement.
- Clean the implement.
- Disassemble the implement.
- Adjust the implement.

Observe the recommended greasing, replacement and inspection intervals to prevent secondary damage.

Only use original replacement parts to avoid unintentional risks and damage.

Always make sure that the used spare parts are mounted correctly and that the screws are tightened to the correct torque.

If the implement is connected to the tractor during the repair and the maintenance, make sure that:

- · The tractor engine is stopped.
- The ignition key is removed.
- The tractor cannot move.

Be careful when using high pressure cleaners, particularly near bearings and seals.

Always ensure that the implement has been properly greased before it starts operating. This is also necessary before using the implement the first time.

NOTICE: If the implement is cleaned with a high pressure cleaner, make sure to grease the implement carefully afterwards, in order to press any water out of the bearings.

Always disengage the Power Take-Off (PTO) drive shaft, activate the parking brake and stop the tractor engine before you:

- Lubricate the implement.
- · Clean the implement.
- Disassemble any part of the implement.
- · Adjust the implement.

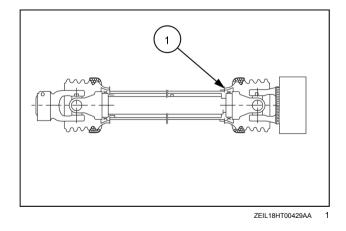
When the PTO shaft has been stopped there will be a momentum. Do not get too close to the implement. Do not make any work on the implement until it has come to a complete stop.

Power Take-Off (PTO) drive shaft

Pay special attention to the sliding profile tubes of the PTO shafts. They must be able to slide back and forth when the torque is heavy.

The profile tubes in this shaft constantly move in relation to each other during the work. Therefore the implement is equipped with a special shaft in which the tubes can be greased from the outside by means of a centrally positioned grease fitting **(1)**, without having to separate the shaft.

Always lubricate the sliding profile tubes sufficiently, to avoid high frictional forces (seizing) which will damage the profile tubes and in time also connecting shafts and gearboxes.



Torque

Minimum hardware tightening torques (in N m or lb in /lb ft) for normal assembly applications unless otherwise stated

The minimum hardware tightening torque on drawings, in specifications, etcetera have priority. In the following tables, torque specifications are shown following the standard **ENS7001**, applicable for material class 8.8 and material class 10.9.

Hex head bolts

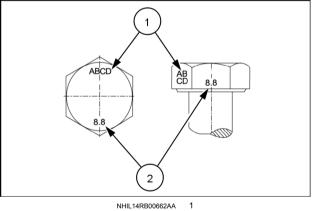
	Class 8.8 in N m (Ib in or Ib ft)			Class 10.9 in N m (lb in or lb ft)				
Nominal Size	Plated nut	Lock nut	Hardened nut/Oiled plated nut	Plated nut	Lock nut	Hardened nut/Oiled plated nut		
M3	1.3 N·m	0.7 N·m	1.2 N·m	1.8 N∙m	0.9 N·m	1.6 N·m		
	(11.5 lb in)	(6.2 lb in)	(10.6 lb in)	(15.9 lb in)	(8.0 lb in)	(14.2 lb in)		
M4	2.9 N·m	1.6 N·m	2.6 N·m	4.2 N·m	2.3 N·m	3.7 N·m		
	(25.7 lb in)	(14.2 lb in)	(23.0 lb in)	(37.2 lb in)	(20.4 lb in)	(32.7 lb in)		
M5	5.9 N⋅m	3.2 N⋅m	5.3 N·m	8.5 N⋅m	4.6 N⋅m	7.6 N·m		
	(52.2 lb in)	(28.3 lb in)	(46.9 lb in)	(75.2 lb in)	(40.7 lb in)	(67.3 lb in)		
M6	10.1 N·m	5.5 N⋅m	9.1 N·m	14.5 N·m	7.9 N⋅m	13 N·m		
	(89.4 lb in)	(48.7 lb in)	(80.5 lb in)	(10.7 lb ft)	(69.9 lb in)	(9.6 lb ft)		
M8	24.5 N·m	13.5 N·m	22 N·m	35.1 N·m	19.3 N⋅m	31.5 N⋅m		
	(18.1 lb ft)	(10.0 lb ft)	(16.2 lb ft)	(25.9 lb ft)	(14.2 lb ft)	(23.2 lb ft)		
M10	48.7 N·m	26.8 N·m	43.8 N⋅m	69.5 N·m	38.2 N·m	62.5 N·m		
	(35.9 lb ft)	(19.8 lb ft)	(32.3 lb ft)	(51.3 lb ft)	(28.2 lb ft)	(46.1 lb ft)		
M12	85 N·m	46.7 N·m	76.5 N⋅m	121 N·m	66.5 N·m	108.9 N·m		
	(62.7 lb ft)	(34.4 lb ft)	(56.4 lb ft)	(89.2 lb ft)	(49.0 lb ft)	(80.3 lb ft)		
M14	135 N⋅m	74.2 N·m	121.5 N·m	193 N·m	106.1 N·m	173.7 N·m		
	(99.6 lb ft)	(54.7 lb ft)	(89.6 lb ft)	(142.3 lb ft)	(78.3 lb ft)	(128.1 lb ft)		
M16	210 N·m	115.5 N·m	189 N·m	301 N·m	165.5 N·m	270.9 N·m		
	(154.9 lb ft)	(85.2 lb ft)	(139.4 lb ft)	(222 lb ft)	(122.1 lb ft)	(199.8 lb ft)		
M18	299 N·m	164.4 N·m	269.1 N·m	414 N·m	227.7 N·m	372.6 N·m		
	(220.5 lb ft)	(121.3 lb ft)	(198.5 lb ft)	(305.4 lb ft)	(167.9 lb ft)	(274.8 lb ft)		
M20	425 N⋅m	233.72 N·m	382.5 N⋅m	587 N·m	322.8 N·m	528.3 N·m		
	(313.5 lb ft)	(172.4 lb ft)	(282.1 lb ft)	(432.9 lb ft)	(238.1 lb ft)	(389.7 lb ft)		
M22	579 N·m	318.4 N⋅m	521.1 N·m	801 N·m	440.5 N·m	720.9 N·m		
	(427 lb ft)	(234.8 lb ft)	(384.3 lb ft)	(590.8 lb ft)	(324.9 lb ft)	(531.7 lb ft)		
M24	735 N⋅m	404.2 N⋅m	661.5 N·m	1016 N·m	558.8 N·m	914.4 N·m		
	(542.1 lb ft)	(298.1 lb ft)	(487.9 lb ft)	(749.4 lb ft)	(412.1 lb ft)	(674.4 lb ft)		
M27	1073 N·m	590.1 N·m	967.5 N·m	1486 N·m	817.3 N·m	1337 N·m		
	(791.4 lb ft)	(435.2 lb ft)	(713.6 lb ft)	(1096 lb ft)	(602.8 lb ft)	(986.1 lb ft)		
M30	1461 N·m	803.5 N·m	1315 N·m	2020 N·m	1111 N·m	1818 N·m		
	(1077.6 lb ft)	(592.6 lb ft)	(969.9 lb ft)	(1489.9 lb ft)	(819.4 lb ft)	(1340.9 lb ft)		

Flange head bolt/Flange nut

Nominal Size	Class 10.9 in N m (lb ft)
M3	2.0 N·m (1.5 lb ft)
M4	4.6 N·m (3.4 lb ft)
M5	9.4 N·m (6.9 lb ft)
M6	15.9 N⋅m (11.7 lb ft)
M8	38.7 N⋅m (28.5 lb ft)
M10	76.5 N⋅m (56.4 lb ft)
M12	134 N·m (98 lb ft)
M14	213 N·m (157 lb ft)
M16	331 N·m (244 lb ft)
M18	455 N·m (336 lb ft)
M20	645 N·m (476 lb ft)
M22	881 N·m (650 lb ft)
M24	1118 N·m (824 lb ft)
M27	1635 N·m (1206 lb ft)
M30	2222 N·m (1639 lb ft)
M36	3880 N·m (2862 lb ft)

Identification markings

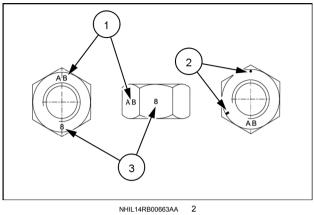
Metric hex head, flange hex head and carriage bolts, Classes (CL) 5.6 and upward



Metric bolt identification markings

- 1. Manufacturer's identification
- 2. Property class

Metric hex nuts and locknuts, Classes (CL) 05 and upward

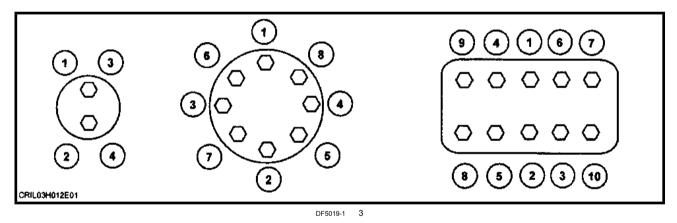


Metric hex nut identification markings

- (1) Manufacturer's identification
- (3) Property class
- (2) Clockwise type markings indicate property class and may include manufacturer identification (if applied), Example: property marks 240° apart (shown) at the eight o'clock position indicate a Class 8 property, and marks 300° apart at the ten o'clock position indicate a Class 10 property.

Torque tightening sequence

NOTICE: Shown below is the suggested initial torque tightening sequences for general applications, tighten in sequence from item 1 through to the last item of the hardware.



Torque for class 12.9

Bolts of quality 12.9 are used on the implements. Make sure to use the same type of bolts and nuts to replace bolts and nuts of quality 12.9. It is easier to torque bolts and nuts to correct value of torque if you lubricate bolts and nuts with oil.

Quality	Size	Torque for dry bolts and nuts	Torque for bolts and nuts lubricated with oil
12.9	M8	40 N·m (29.50 lb ft)	-
12.9	M10	81 N·m (59.74 lb ft)	-
12.9	M12	135 N·m (99.57 lb ft)	-
12.9	M12 x 1.25	146 N·m (107.68 lb ft)	-
12.9	M14	215 N·m (158.58 lb ft)	_
12.9	M14 x 1.5	230 N·m (169.64 lb ft)	_
12.9	M16	333 N·m (245.61 lb ft)	286 N·m (210.94 lb ft)
12.9	M16 x 1.5	350 N·m (258.15 lb ft)	_
12.9	M18	440 N·m (324.53 lb ft)	_
12.9	M20	649 N·m (478.68 lb ft)	558 N·m (411.56 lb ft)
12.9	M20 x 1.5	720 N·m (531.04 lb ft)	_
12.9	M24	1120 N·m (826.07 lb ft)	963 N·m (710.27 lb ft)
12.9	M24 x 1.5	1175 N·m (8666.35 lb ft)	_
12.9	M30	2300 N·m (1696.39 lb ft)	_

Fluids and lubricants

Item	Capacity	KONGSKILDE brand name	KONGSKI- LDE specifi- cation	Lubricant grade	International specification
Grease fittings	-	-	-	NLGI 2	M1C 137-A or M1C 75-B

Maintenance planning

Maintenance chart

Grease				С	heck	
Tighten					Replace	
Maintenance action					Page no.	
After the first 5 hours of operation						
Nuts and bolts	Х				7-8	
Every 8 hours						
Power Take-Off (PTO) shaft		х			7-8	
Rotor gear		х			7-9	
Bearing arm		х			7-10	
Every 20 hours	\$					
Power Take-Off (PTO) shaft		х			7-12	
Every 40 hours	\$					
Power Take-Off (PTO) shaft		х			7-13	
Pin on suspension		х			7-14	
Ball joint on suspension		х			7-15	
Every 50 hours						
Nuts and bolts			Х		7-16	
Fixing bolts - tines			Х		7-16	
As required						
Cam track		х			7-17	
Bearing arms				х	7-18	
Yoke assembly		х			7-19	

After the first 5 hours of operation

Nuts and bolts

Torque again all the bolts and the nuts after the first ${\bf 5}~{\bf h}$ of work.

Every 8 hours

Power Take-Off (PTO) shaft

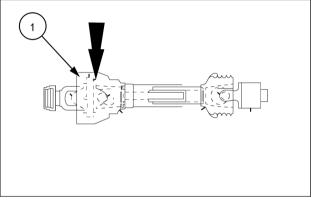
Perform the lubrication every 8 h.

Lubricant: NLGI 2 .

Prior operation:

Place the implement in safe conditions for maintenance.

Lubricate the PTO shaft (1) in the grease fitting indicated in figure.



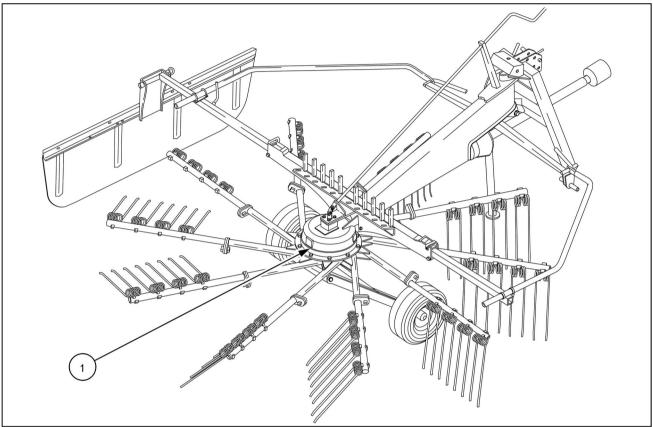
ZEIL17HT00029AA 1

Rotor gear

Perform the lubrication every 8 h.

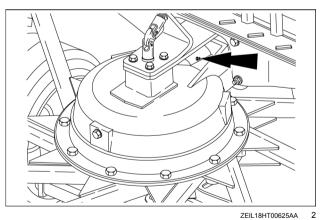
Lubricant: NLGI 2

Prior operation: Place the implement in safe conditions for maintenance.



ZEIL18HT00631FA 1

Lubricate the rotor gear (1) in the fitting indicated in figure.

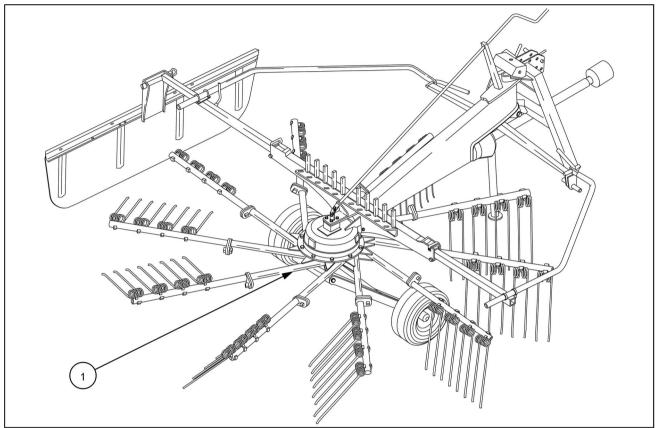


Bearing arm

Perform the lubrication every 8 h.

Lubricant: NLGI 2

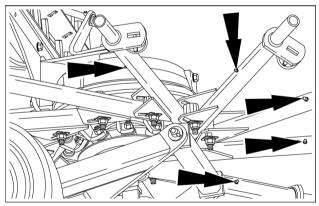
Prior operation: Place the implement in safe conditions for maintenance.



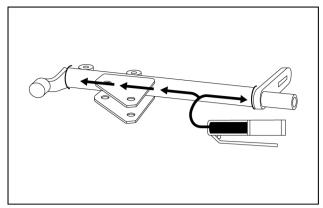
ZEIL18HT00631FA

1

Lubricate each of the 10 bearing arms (1) in the fitting indicated in figure.



ZEIL18HT00623AA 2 Check the grease comes out of the innermost end of the bearing arm.



ZEIL18HT00370AA 3

Every 20 hours

Power Take-Off (PTO) shaft

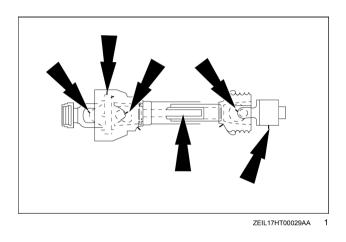
Perform the lubrication every ${\bf 20}~{\bf h}.$

Lubricant: NLGI 2

Prior operation:

Place the implement in safe conditions for maintenance.

Lubricate the PTO shaft (1) in the fittings indicated in the figure.



Every 40 hours

Power Take-Off (PTO) shaft

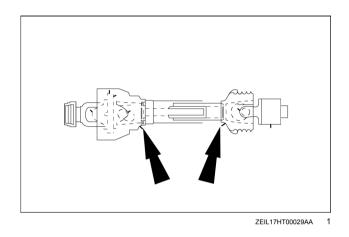
Perform the lubrication every 40 h.

Lubricant: NLGI 2

Prior operation:

Place the implement in safe conditions for maintenance.

Lubricate the PTO shaft (1) in the fittings indicated in the figure.

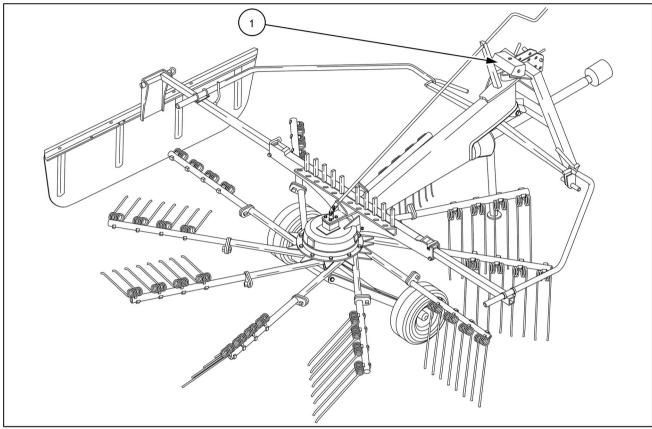


Pin on suspension

Perform the lubrication every 40 h.

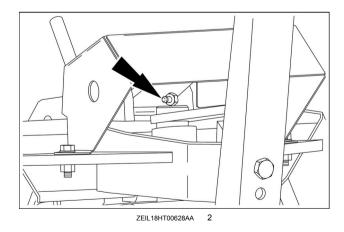
Lubricant: NLGI 2

Prior operation: Place the implement in safe conditions for maintenance.



ZEIL18HT00631FA 1

Lubricate the pin on suspension (1) in the fitting indicated in the figure with a grease gun.

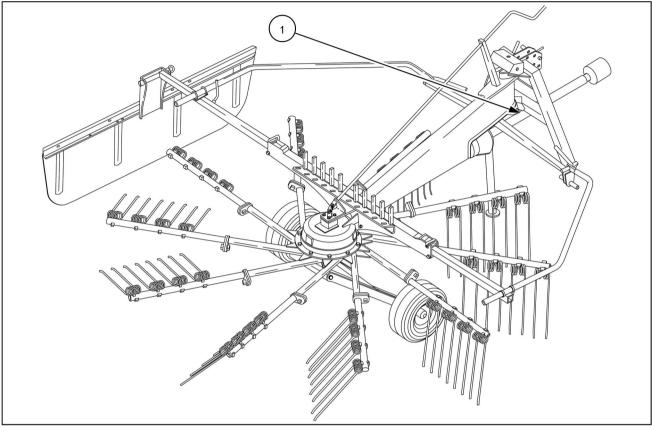


Ball joint on suspension

Perform the lubrication every **40 h**.

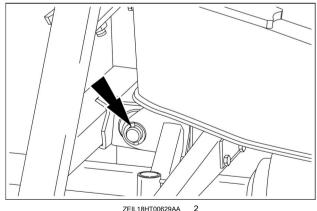
Lubricant: NLGI 2

Prior operation: Place the implement in safe conditions for maintenance.



ZEIL18HT00631FA 1

Lubricate the ball joint (1) in the fitting indicated in the figure.



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Every 50 hours

Nuts and bolts

Check the torque of all the bolts and the nuts every ${\bf 50}~{\bf h}$ of work.

Torque if necessary. See Page 7-3 and 7-6.

Fixing bolts - tines

Check the torque of the fixing bolts of the rake tines on the tine arms every ${\bf 50}$ h of work.

Torque if necessary. See Page 7-3 and 7-6.

As required

Cam track

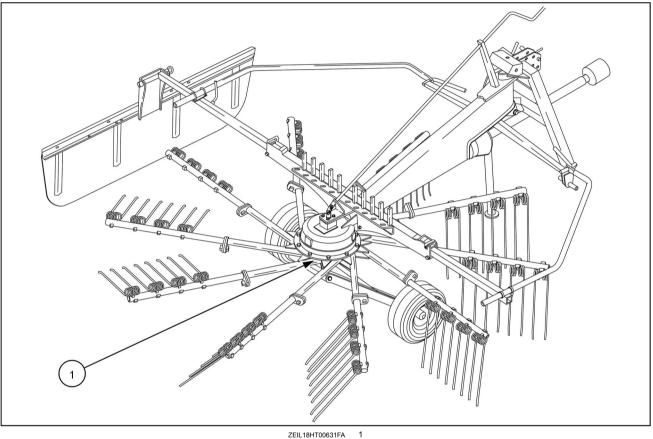
Occasionally lubricate the cam track.

Lubricant: NLGI 2

Prior operation:

as indicated in figure.

Place the implement in safe conditions for maintenance.



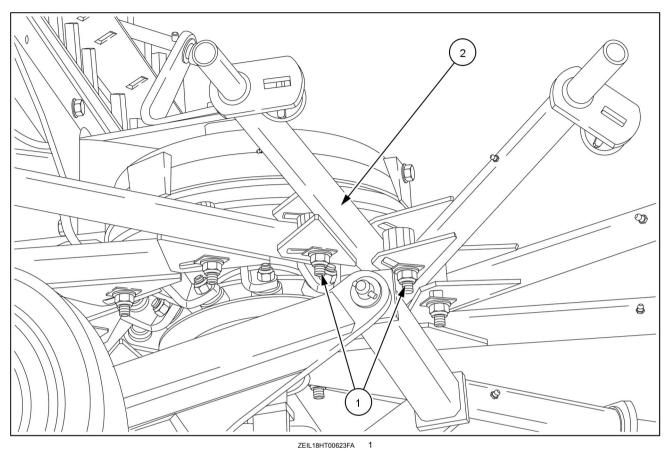
ZEIL18HT00631FA

Lubricate with a brush the cam (1) track in the roller path

ZEIL18HT00627AA 2

Bearing arms

NOTE: To replace the bearing arm you do not need to disassemble the rotor.



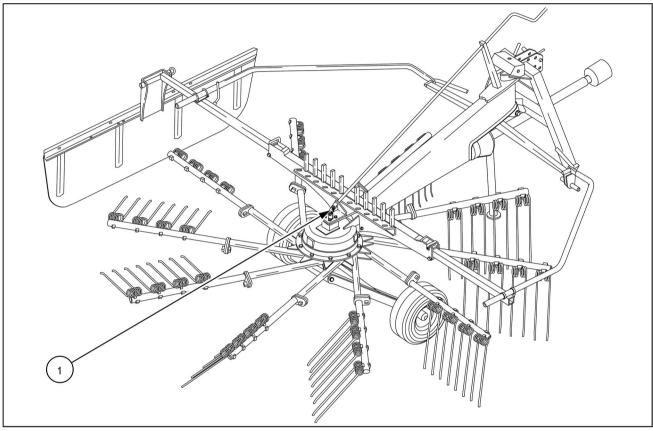
- 1. Remove the hardware (1) and the bearing arm (2).
- 2. Check the correct position of the roller in the roller path of the cam track.
- 3. Install the bearing arm (2). Use the hardware (1).
- 4. Torque the hardware (1) to 160 N·m (118 lb ft).

Yoke assembly

Occasionally lubricate the yoke assembly.

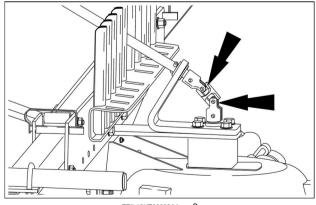
Lubricant: NLGI 2

Prior operation: Place the implement in safe conditions for maintenance.



ZEIL18HT00631FA 1

Lubricate the yoke assembly (1) as indicated in the figure.



Storage

Pressure washing

Before you use pressure washing, clean the implement with compressed air.

NOTE: Legislation in certain countries and good practice requires special treatment of waste water through sedimentation and oil separation and controlled removal of residues.

Avoid pressure washing at ambient temperatures below **10** °C (**50** °F) or when the implement is wet. Place the implement in a heated workshop or dry barn for at least **24 h**. Clean the implement only when fully dry.

NOTE: Be careful when you clean the implement with a high pressure washing. Avoid to direct water jets onto bearings, seals, etcetera.

NOTE: Grease all grease fittings carefully after you clean the implement to press possible water out of the bearings.

When you use a high pressure washer:

- Keep a minimum distance of **25 cm** (**9.8 in**) between the spray gun and the surface to be cleaned.
- Spray under an angle of minimum **25°** (do not spray straight at the implement).
- Maximum water temperature: 50 °C (122 °F)
- Maximum water pressure: 80 bar (1160 psi)
- Do not use chemicals.

NOTICE: On the cylinders, do NOT direct the stream of a high pressure washer at the wiper seal. Water could come through the rod guide and create corrosion. This corrosion could generate pollution and seizing of the cylinder rod and the rod guide.

End of season service

When the season is over, prepare the implement for the storage immediately.

To prepare the implement for winter storage:

- 1. Clean the implement thoroughly. Dust and dirt absorb moisture and moisture increases the formation of rust.
- 2. Store the implement in a dry place, protected against wind and weather in the best possible way.
- 3. Grease all grease fittings after you clean the implement, according to the "Maintenance chart".
- 4. Check the implement for damaged parts, loose screwjoints, leakage, wear and other defects carefully before the storage. If there is any damage, it may be forgotten during the storage and result in problems the following season. Note down the necessary parts you will need before the next season and order the spare parts.
- 5. Dismount the Power Take-Off (PTO) shafts, lubricate the profile tubes and keep them in a dry place.
- 6. Spray the implement with a coat of rust-preventing oil.
- 7. Support the implement to relieve the weight from the tires. Leave tires inflated. Tire and rubber components life will be extended if protected from sunlight during storage.

NOTE: Periodic checks will help to keep your implement maintenance and repairs to a minimum and avoid costly breakdowns during the season. Therefore, it is good practice to have the implement inspected at the end of the season.

Ordering parts and / or accessories

When you prepare the implement for storage, check thoroughly for any parts that may have become worn and need replacing.

Order and install the spare parts and/or accessories at once before the next season.

When you order spare parts, always make sure to give your KONGSKILDE dealer the model number and the Product Identification Number (PIN) of your implement. See "Product identification" in Chapter 1 of this operator's manual.

Insist on genuine KONGSKILDE "quality" spare parts as they will give the best performance and are covered by our warranty.

For best performance, have your implement serviced by an authorized KONGSKILDE dealer.

8 - TROUBLESHOOTING

Fault code resolution

Troubleshooting

Problem	Possible Cause	Correction
There is too much crop left.	The tines are too high over the ground.	Adjust the rotors and set the tines closer to the ground.
	The forward speed does not fit to the speed	Raise the rpm or reduce the forward speed
	of the implement.	of the tractor.
	A tine misses.	Replace the missing tine.
The implement	The implement is in transport position.	Set the implement in working position.
jumps/follows as the		
tractor.		
The implement moves sideways constantly.	The stabilizer is too loose.	Tighten the spring to the correct distance.

9 - SPECIFICATIONS

Technical data

Technical data	R 365 DS
Power requirements, approximately	18 kW (24 Hp)
Number of tine arms per rotor	10
Double tines per tine arm	4
Link arm category	+
Number of rotor wheels	2
Suspension type	3-point
Power Take-Off (PTO) shaft speed	540 RPM
Maximum total weight	390 kg (859.8 lb)
Voltage for lighting equipment	12 V
Maximum working width	3.6 m (141.7 in)

Fluids and lubricants

ltem	Capacity	KONGSKILDE brand name	KONGSKI- LDE specifi- cation	Lubricant grade	International specification
Grease fittings	-	-	-	NLGI 2	M1C 137-A or M1C 75-B

Tire pressure

Tire	Recommended pressure
16/6.50-8 (6PR)	2.2 bar (31.9 psi)

Dimensions

Technical data	R 365 DS
Length (with tine arms)	3.4 m (133.9 in)
Rotor diameter	2.9 m (116.1 in)
Minimum transport width	1.6 m (63 in)

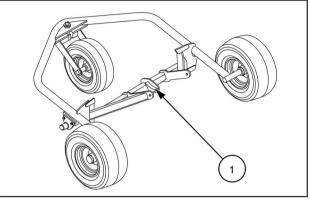
10 - ACCESSORIES

General information

Accessories or optional equipment listed hereafter may be part of the standard equipment for certain countries. Some of these accessories or options may not be available in certain markets.

3-wheel system

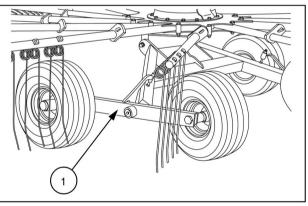
The 3-wheel system (1) is hinged as a boogie system. The hinge point is the standard wheel axle. The 3-wheel system (1) is recommended in uneven fields due to tracks from previous field operations. The front wheel is a caster wheel. The front wheel does not damage the grass cover during the turn.



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4-wheel system

The 4-wheel tandem boogie system (1) is recommended in uneven fields where there are tracks from previous field operations. The 4-wheel tandem boogie system (1) gives a more stable work height. The 4-wheel tandem boogie system (1) is also recommended when working in fields with soft ground because the 4-wheel tandem boogie system (1) is able to distribute the weight of the rake better.

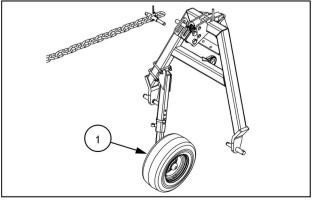


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Front gauge wheel

To increase the ground following of the implement and get the optimal work application, the implement can be equipped on the headstock with a front gauge wheel (1). The front gauge wheel (1) reduces the risk of crop soil contamination, especially in rolling field conditions.

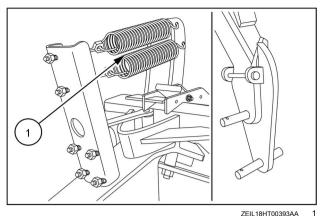
NOTE: Do not use the chain during the road transport.



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Linkage equipment for steep slopes

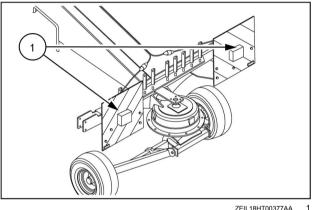
To prevent the implement to "roll up" during working in fields with very steep slopes, the linkage equipment (1) kit will lower the linkage point and give a better angling of the bearing arms in relation to the implement.



Traffic light kit and side marking

Standard traffic light kit includes the warning plates (1). Side marking is separate kit.

Some countries may require this kit by law for the transport of the implement on public roads.



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11 - FORMS AND DECLARATIONS

EC Declaration of Conformity

EF-overensstemmelseserklæring/ EG-Konformitätserklärung/ EC Declaration of Conformity/ Déclaration CE de conformité/ Dichiarazione CE di conformita/ EG Verklaring van Overeenstemming/ EG-försäkran om överensstämmelse/ EY-vaatimustenmukaisuusvakuutus/ Declaración de conformidad CE/ Deklaracja Zgodności WE./ Декларация за съответствие EO/ EK Megfelelőségi Nyilatkozat /ES Prohlášení o shodě/ EB Atitikties deklaracija/ ES prehlásenie o zhode/ Declarația de conformitate CE/ Vastavuse Deklaratsioon EÜ /ES Izjava o skladnosti/ Δήλωση πιστότητας EK/ Declaração de fidelidade CE/ Dikjarazzjoni ta' Konformità tal-KE/ EK Atbilstības deklarācija/

F abrikant/ Hersteller/ Manufacturer/ Fabricant/ Produttore/ Fabrikant/ Fabrikant/ Valmistaja/ Fabricante/ Producent/ Производител/ Gyártó/ Výrobce/ Gamintojas/ Výrobca/ Producător/ Tootja/ Proizvajalec/ Катаокευαστής/ Fabricante/ Fabbrikant/ Ražotājs

CNH INDUSTRIAL Belgium N.V.

B8210 Zedelgem, Belgium

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Maskine: Maschine: Machine: Machine: La macchina: Machine: Maskin: Laite:	La máquina: Maszyna: Машината: Gép: Stroj: Mašina: Stroj: Maşina:	Masin: Stroj: Η μηχανή: Máquina: II-magna: Mašīna:	Model/Type: Designation: Rake TVV: Serial:
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- er i overensstemmelse med Maskindirektivets bestemmelser (Direktiv 2006/42/EF) og hvis relevant også bestemmelserne i EMC-direktivet 2014/30/EU

- In übereinstimmung mit den Bestimmungen der Maschinen-Richtlinie 2006/42/EG und wenn erforderlich auch mit der EMC-Richtlinie 2014/30/EU hergestellt wurde.

- is in conformity with the provisions of the Machinery Directive 2006/42/EC and if relevant also the provisi¬ons of the EMC Directive 2014/30/EU.

- est conforme aux dispositions de la Directive relatives aux machines 2006/42/CE et également aux dispositi¬ons de la Directive sur la Directive EMC 2014/30/UE

- é in conformita' con la Direttiva Macchine 2006/42/CE e, se pertinente, anche alla Direttiva alla Direttiva EMC 2014/ 30/UE.

- in overeenstemming is met de bepalingen van de Machine richtlijn 2006/42/EG en wanneer relevant ook met de bepalingen van de EMC richtlijn 2014/30/EU.

- är i överensstämmelse med Maskindirektivets benstämmelser (Direktiv 2006/42/EG) och om relevant också bestämmelserna i EMC-direktivet 2014/30/EU.

- täyttää Konedirektiivin (Direktiivi 2006/42/EY) määräykset ja oleellisilta osin myös EMC-direktiivin 2014/30/EU.

- es conforme a la Directiva de Maquinaria 2006/42/CE y, si aplica, es conforme también a la Directiva EMC 2014/ 30/EU.

- pozostaje w zgodzie z warunkami Dyrektywy Maszynowej 2006/42/WE i jeżeli ma to zastosowanie również z warunkami Dyrektywy dot. kompatybilności elektro magnetycznej EMC 2014/30/UE.

- отговаря на изискванията на Директивата за Машините 2006/42/ЕО и ако има приложение на изискванията на Директивата за електромагнитна съвместимост 2014/30/ЕС.

Megfelel a 2006/42/EK Gépi Eszközökre vonatkozó előírásoknak és amennyiben felhasználásra kerül, a 2014/30/EU
 Elektromágneses kompatibilitás Irányelv feltételeinek.

 - odpovídá základním požadavkům Strojní směrnice 2006/42/ES a jestliže to její uplatnění vyžaduje i s podmínkami Směrnice 2014/30/EU týkající se elektromagnetické kompatibility.

- atitinka Mašinų direktyvos Nr. 2006/42/EB ir, jeigu taikoma, Elektromagnetinio suderinamumo direktyvos Nr. 2014/ 30/ES reikalavimus.

 - je v súlade s podmienkami Smernice 2006/42/ES o strojných zariadeniach a pokiaľ si to jeho uplatnenie vyžaduje aj s podmienkami Smernice 2014/30/EÚ o elektromagnetickej kompatibilite.

- îndeplinește prevederilor Directivei de Mașini 2006/42/CE și dacă este utilizată de asemenea cu prevederile Directivei referitoare la compatibilitatea electro-magnetică EMC 2014/30/UE.

- on vastavuses Masinate Direktiivi tingimustega 2006/42/EÜ ning sammuti juhul, kui on tegemist sammuti on vastavuses Elektromagnetilise kokkusobivuse Direktiivitingimustega EMC 2014/30/EL. - z določili Direktive o strojih 2006/42/ES ter, če je to relevantno, tudi z določili EMC Direktive 2014/30/EU.

- παραμένει σύμφωνη με τους όρους της Οδηγίας περί Μηχανών 2006/42/ΕΚ και σε περίπτωση που αυτό εφαρμόζεται και με τους όρους της Οδηγίας περί ηλεκτρομαγνητικής συμβατότητας (ΗΜΣ) 2014/30/ΕΕ.

- Está de acordo com exigências das Directivas das Maquínarias 2006/42/CE e no caso em que tiver igualmente aplicação com as exigências das Directivas referentes a compatibilidade electromagnética EMC 2014/30/UE.

- tikkonforma mad-dispożizzjonijiet tad-Direttiva dwar il-Makkinarju 2006/42/KE u jekk rilevanti wkoll mad-dispożizzjonijiet tad d-Direttiva EMC 2014/30/EU.

- atbilst mašīnu direktīvai 2006/42/EK, kā arī nepieciešamības gadījumā elektromagnētiskās saderības direktīvai EMC 2014/30/ES.

Zedelgem,

Antoon Vermeulen

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