

ORIGINAL INSTRUCTIONS - according to Directive 2006/42/EC, Annex I 1.7.4.1 and according to Supply of Machinery (Safety) Regulations 2008, Annex I 1.7.4.1

OPERATOR'S MANUAL

Vibro flex 43 I 3

Vibro flex 43 I 5 F

Vibro flex 43 I 7

Vibro flex 43 I 9

Stubble Cultivator

PIN KTNKA604A00001249 and above

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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

The critical condition of the equipment is the complete wear and tear of all components. When the costs of repair, restoration or replacement of the individual components and/or assemblies become economically impractical, a decision is made on decommissioning the equipment.

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

KONGSKILDE stubble cultivator can only perform the usual work in agriculture. Only connect the stubble cultivator to a tractor that corresponds with the specifications of the implement and is legal to use.

The implement may only be used to work organic substances (for example manure in solid or liquid form, compost, etcetera) into the soil, to loosen the soil surface (for example after the winter period), and to mix layers of soil.

The work must occur under reasonable conditions, or thorough agricultural knowledge and authorised operation, on a normal cultivation that has a reasonable extension without foreign matter and the like. The performance of the implement will depend on the crop, the condition of the field, the ground, and finally the weather.

Intended use implies that you observe the prescriptions concerning adjustment, operation and maintenance in the instruction manual. Observe altogether the safety instructions as well as common rules concerning technical safety, working practices and road safety. Also read the spare parts catalog and use original spare parts. If necessary contact an authorised workshop.

If you notice degradation of performance, contact your dealer for assistance. He may have useful information for improvements, or a kit may be available to enhance the performance.

With respect for the routine maintenance and with operating conditions, the assigned service life for the implement is minimum seven years.

Prohibited usage

NOTICE: *DO NOT use this implement for another purpose than intended by the manufacturer (as described in the manual, shown by the decals, or in other product safety information provided with the implement). These information sources define the intended use of the implement.*

Any other use beyond the intended use is regarded as misuse and requires the authorization of the manufacturer. The manufacturer is not responsible for any damage that results from the improper use of the implement. The user bears that risk.

Contact your local dealer when you are not sure about the use or function of your implement in a particular application (for example crop, variety, unique conditions, etcetera) or you do not know if there is a need for special equipment or special precautions.

No parts must be fitted to this implement, which have not been released by KONGSKILDE. They might affect the implement operation, safety of the user or other people, stability or wear characteristics of the implement. They may also void the homologation approval obtained for your country and compliance with EC directives.

Do not 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 unauthorized modification.

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.

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.

aging depending on the kind of shipment and the related procedure to assemble the received components.

Additional documents

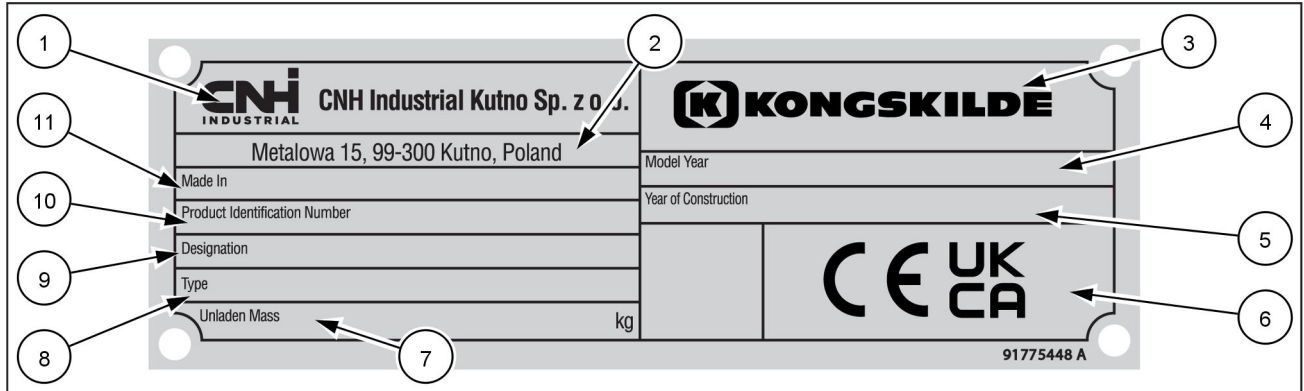
When required, the machine is delivered with an assembly instruction. The assembly instruction shows the pack-

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.



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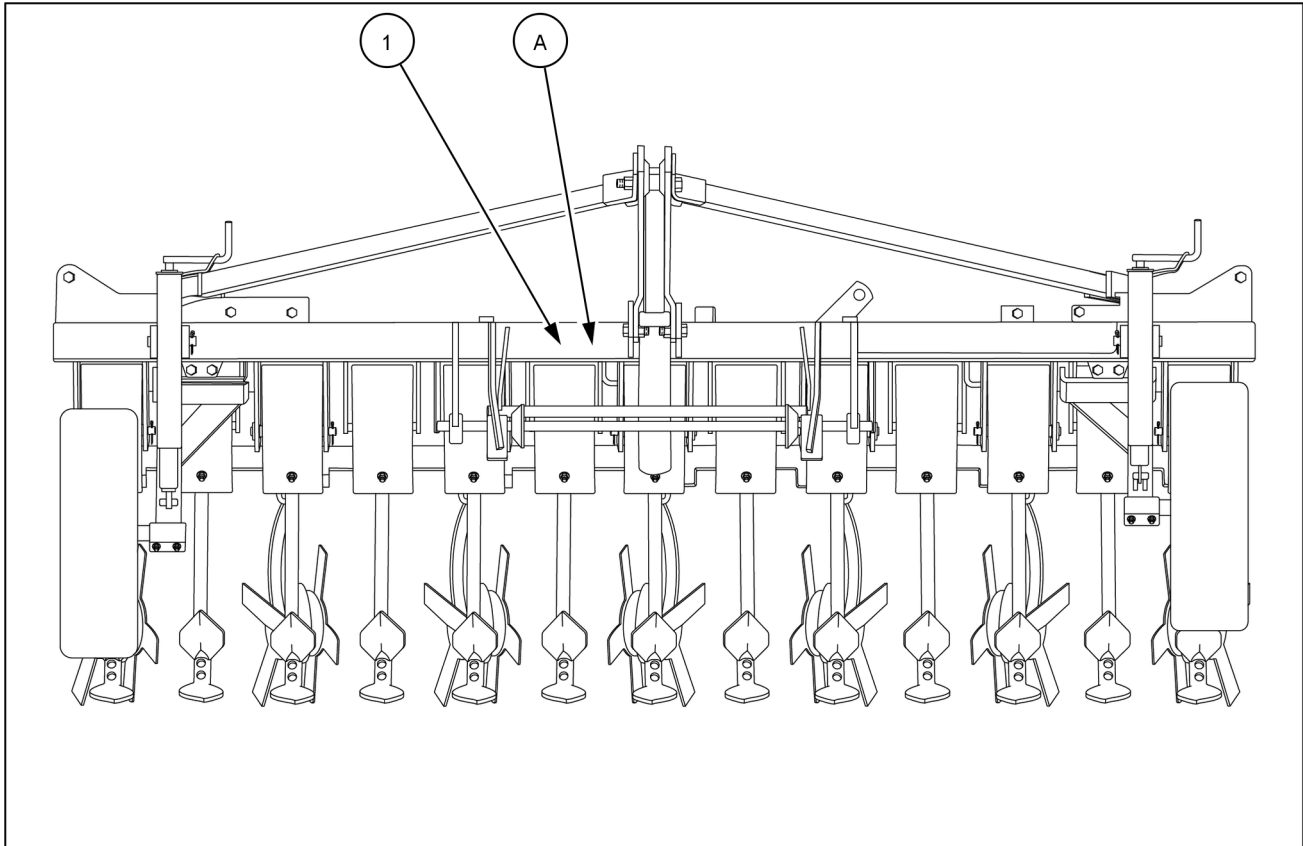
- | | | | |
|------------|---------------------------|-------------|-------------------------------------|
| (1) | Company name | (7) | Unladen mass |
| (2) | Mailing address | (8) | Type / Variant |
| (3) | Brand identification logo | (9) | Designation |
| (4) | Model year | (10) | Product Identification Number (PIN) |
| (5) | Year of construction | (11) | Made in (country of origin) |
| (6) | Certification mark | | |

Product identification

NOTE: Do not remove or change the Product Identification Number (PIN) plate (1) on the implement.

The PIN plate (1) is on the side of the implement.

The PIN is also engraved on the chassis at (A) below the PIN plate (1).



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

Model

Product Identification Number (PIN)

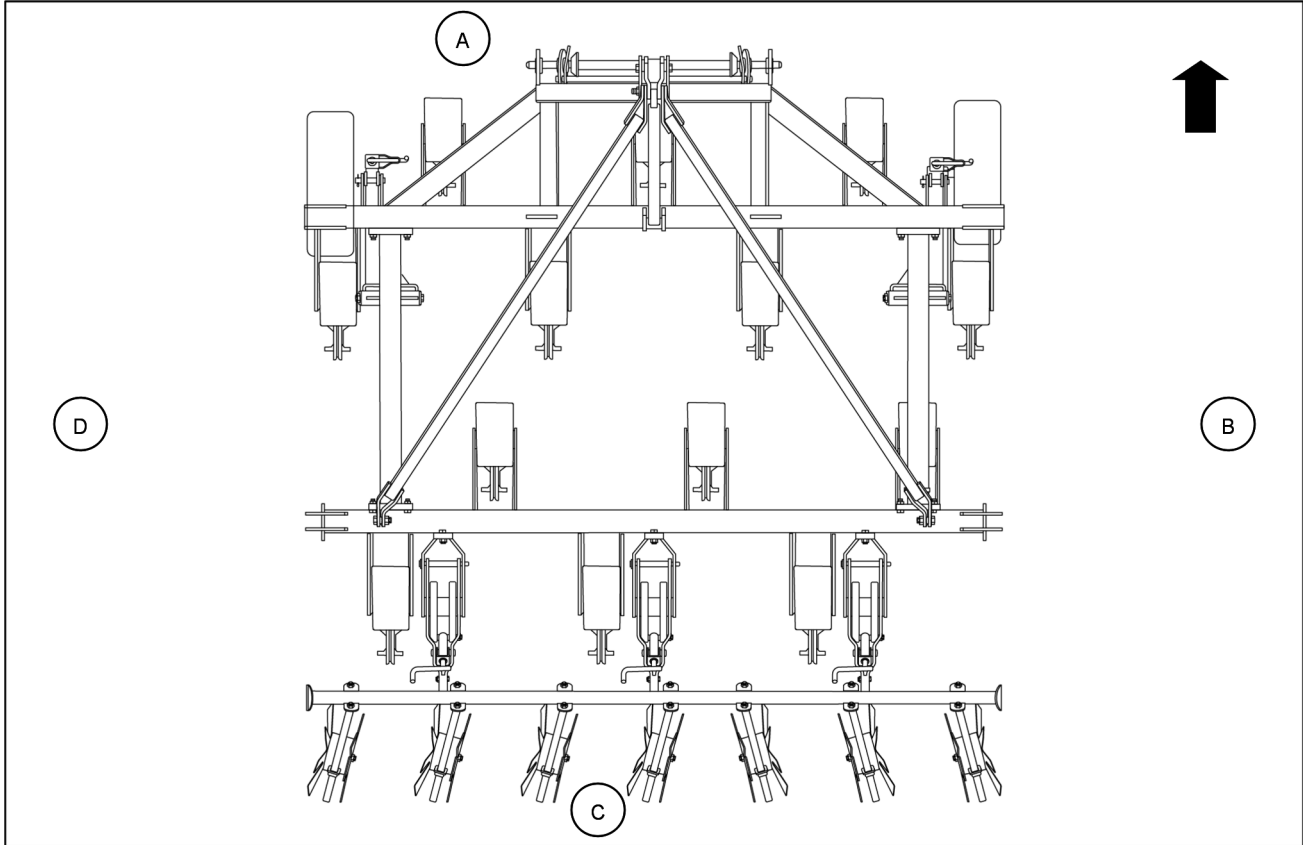
Operator's manual storage on the machine

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

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

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

 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.
- In case of an accident, stop the tractor, turn off the engine and remove the key from the contact, assess the situation and call emergency services when required.
- 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.
- The implement has only one operator station and this is the cab of the tractor, which is a one man operated implement. Never permit anyone to ride on or in an implement. Do not allow riders on the implement or tractor; do not allow people to stand on the ladder or steps. Your view to the left or right will be obstructed and a rider risks to fall from the implement or tractor during unforeseen or abrupt movements. There is no need for other people on or around the implement during normal operation.
- 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.

Illustrations

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.

Local 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.

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

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 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

1. 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 harmful 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.
3. 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 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.

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.

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

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.

W0081A

WARNING

Transport hazard!
Observe the local government regulations when driving on public roads.
Failure to comply could result in death or serious injury.

W1019A

WARNING

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

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.

The implement and the ballast weight 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 place the implement in parking position, turn off the tractor engine, pull the parking brake, and remove the key from the ignition.

Operating the implement safely

WARNING

Roll-over hazard!

Special care is required when operating the machine on slopes or in a tilted position. A wrong maneuver or unexpected event could create a dangerous situation.

Failure to comply could result in death or serious injury.

W0207A

WARNING

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

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.

Before you operate the implement, familiarize yourself with all facilities and operating elements. Once an accident happens it is too late to think about what you did.

Examine the work surface for hidden obstacles. Obstacles pose a risk.

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.

Before you raise or lower the implement, check that nobody is near the implement or touches 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.

The transportation of people on top of the implement is strictly forbidden at all times.

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

Do not operate the implement during a thunderstorm. If you are on the ground during a thunderstorm, stay away from machinery and equipment. Seek shelter in a permanent, protected structure.

If a lightning from a thunderstorm should strike during operation, remain in the tractor cab. Do not leave the cab. Do not make contact with the ground or objects outside the machine.

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. 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, avoid dangerous pitching of the implement.

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

Danger of death by electrocution!

Pay special attention to the overhead power lines. Always ask the owner of the field about the presence of overhead power lines. Make sure the implement has sufficient clearance to pass in all directions (also with raised or opened implement components). Also think of the radio aerial(s) or any other accessory or parts which may have been added afterwards.

High voltage lines may require significant clearance for safety. Contact local authorities or utilities to obtain safe clearance distances from high voltage power lines.

Should a contact between the implement and an electric power line occur, then the following precautions must be taken: Stop the implement movement immediately, stop the tractor engine and apply the tractor handbrake.

Check if you can safely leave the cab or your actual position without direct contact with electric wires. If not, stay in your position and call for help. If you can leave your position without touching the lines, jump off the last step or support position and make sure that there is no contact between any part of your body, the tractor and the ground at the same time. Never touch the tractor or the implement afterwards until power to the lines has been shut off. When people approach the tractor or the implement, warn them not to touch the tractor or the implement but to ask the electric power supply company to shut off the power to the lines.

Stopping the implement safely

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

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 decide to keep the tractor engine running after you leave the tractor cab, you must:

- 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:

- Never allow anyone to stand between the tractor and the implement. An unintentional manoeuvre with the tractor may cause serious injury.
- Always detach the implement carefully and on a flat surface to prevent damage.
- Never go under an unsupported implement.

Maintenance

WARNING

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.

W0004A

- 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.
 - Always relieve the roll pressure before you remove a crop plug from the roller conditioner.
 - Inflate the tires correctly. Do not exceed any recommended load or pressure. Follow the instructions in the operator's manual for proper tire inflation.
 - Tires are heavy. Always handle the tires with proper equipment. Failure to comply could cause death or serious injury.
 - Never weld on a wheel with a tire installed. Always remove the tire completely from the wheel before you weld.
 - Always have a qualified tire technician service the tires and wheels. If a tire has lost all pressure, take the tire and wheel to a tire shop or your dealer for service. Explosive separation of the tire can cause serious injury.
 - Do not weld to a wheel or rim until the tire is completely removed. Inflated tires can generate a gas mixture with the air that can be ignited by high temperatures from welding procedures performed on the wheel or rim. Removing the air or loosening the tire on the rim (breaking the bead) will not eliminate the hazard. This condition can exist whether tires are inflated or deflated. The tire must be completely removed from the wheel or rim prior to welding the wheel or rim.

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 1

Safety requirements for fluid power systems and components - hydraulic systems

⚠ WARNING

Escaping fluid!

Hydraulic fluid or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury. To prevent personal injury: Relieve all pressure before disconnecting fluid lines or performing work on the hydraulic system. Before applying pressure, make sure all connections are tight and all components are in good condition. Never use your hand to check for suspected leaks under pressure. Use a piece of cardboard or wood for this purpose. If injured by leaking fluid, see your doctor immediately.

Failure to comply could result in death or serious injury.

W0178A

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 hydraulic system of the tractor is activated, the hydraulic system may lead to uncontrolled movements which may cause secondary damage.

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. Otherwise you risk that the header suddenly moves downward after you open the transport lock.

Implement stability

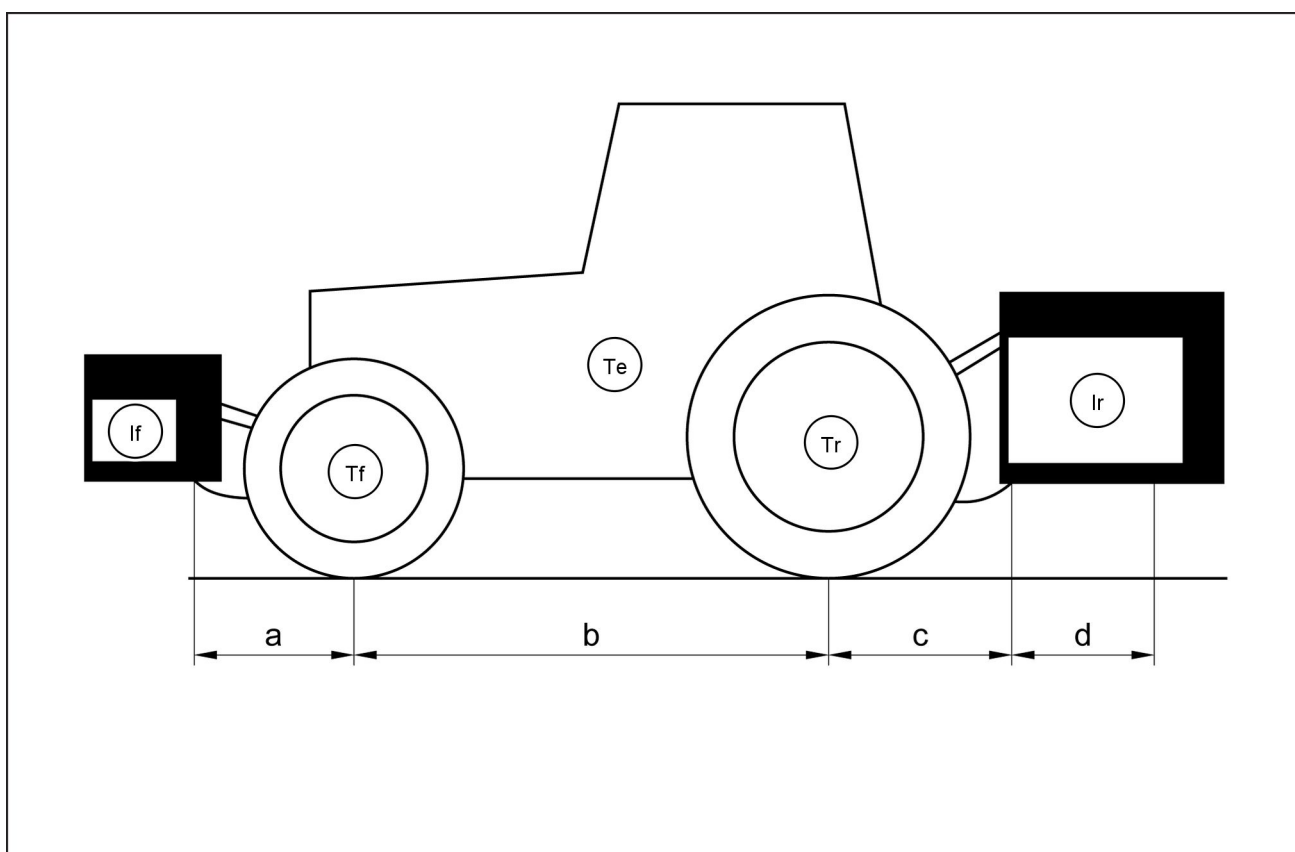
The combination of your tractor and implement can become unstable, due to the additional weight that the implement adds to the tractor.

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:

$$I_{f,min} = \frac{[I_r \times (c + d)] - (T_f \times b) + (0,2 \times T_e \times b)}{a + b}$$



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Example of references to stability of the combination tractor – implement

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.
Ir [kg]	Total weight of the rear-mounted implement/rear ballast.
If [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 substances 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 as amended by CONAMA Resolution 424/2010 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 the implement and note the content and location of all safety signs before you operate your implement. Read all the safety decals 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.

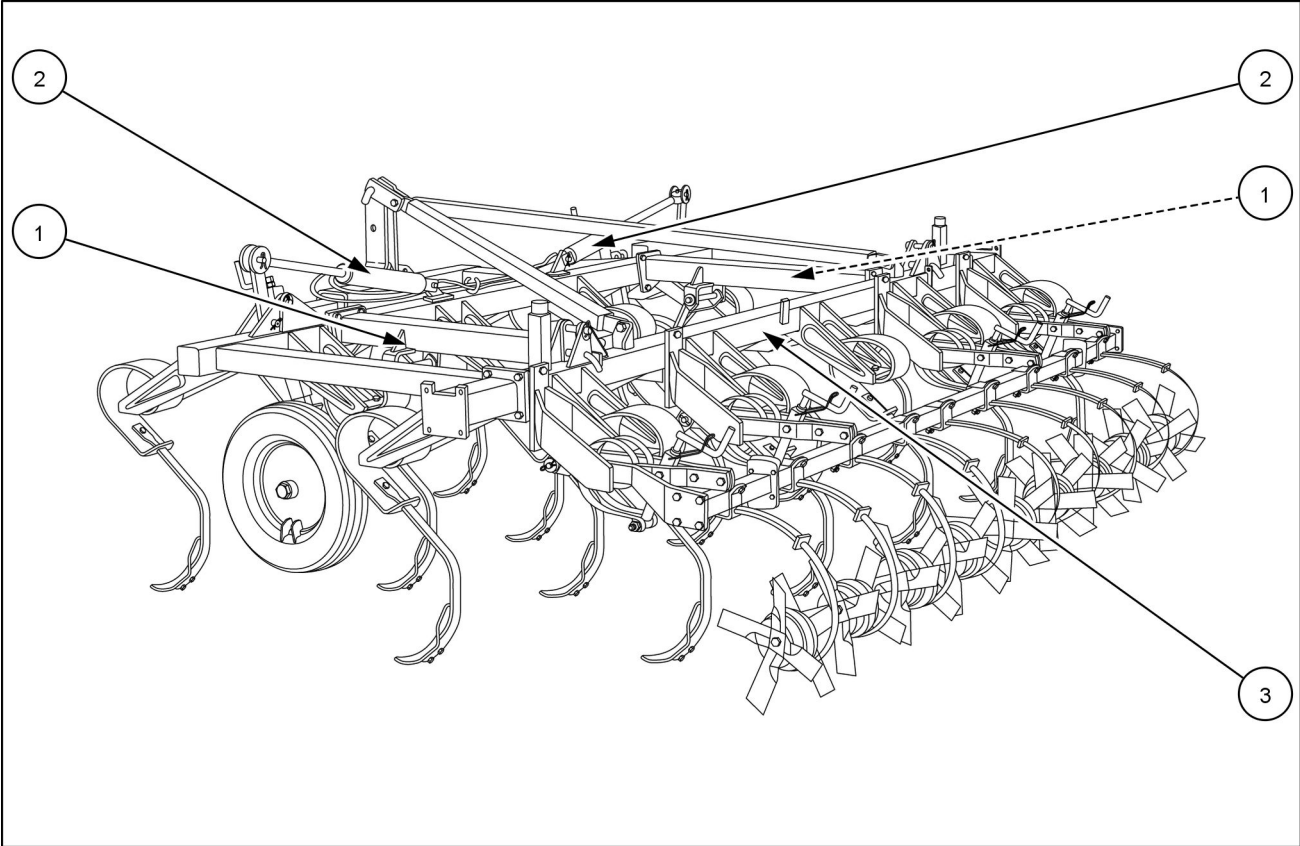
Replace all safety signs that are damaged, missing, painted over, or illegible. If a safety sign is on a part that you or your dealer replaces, make sure that you or your dealer install the safety sign on the new part. Contact your dealer for the replacement of the safety signs.

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.

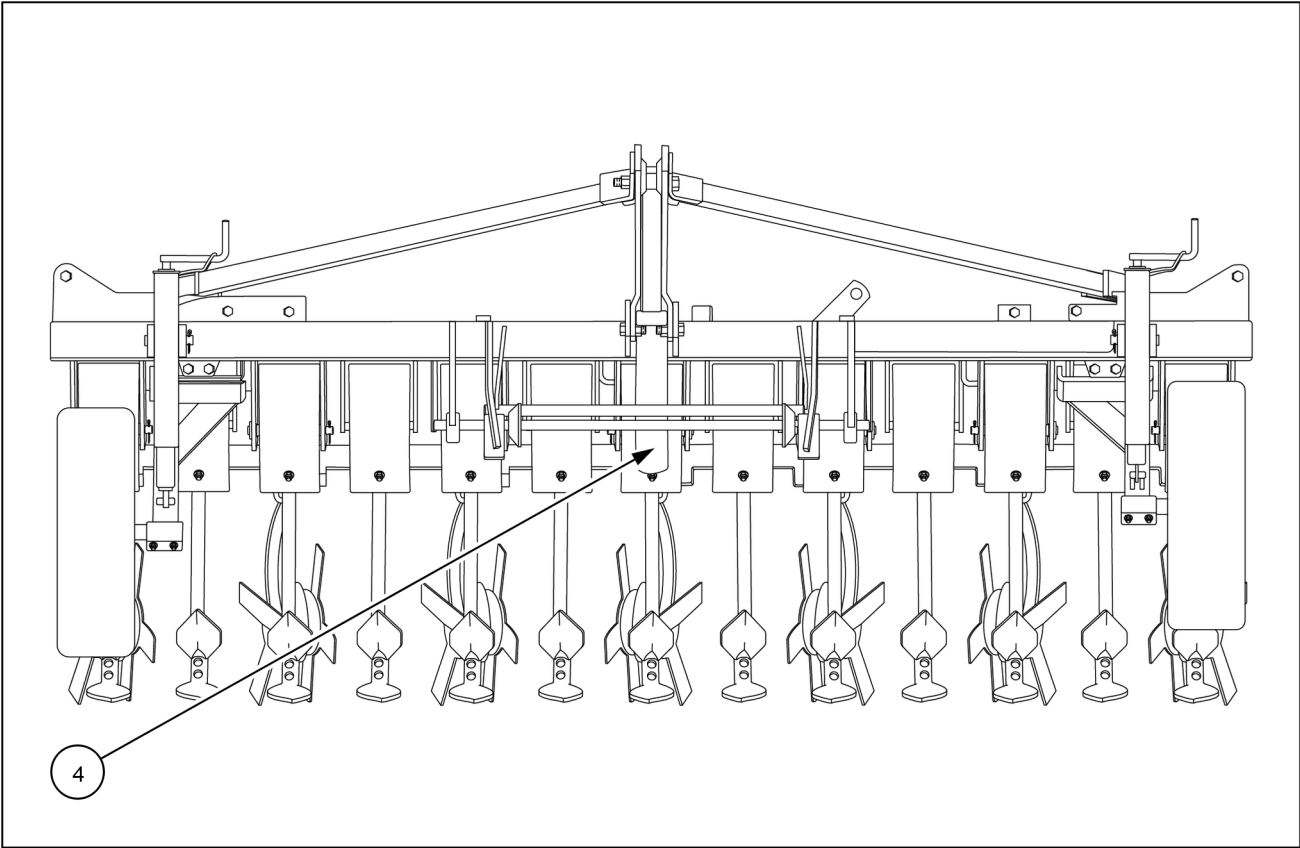


Safety signs that display the “Read service manual” symbol direct you to the service manual. If you doubt your ability to perform service operations, contact your dealer.





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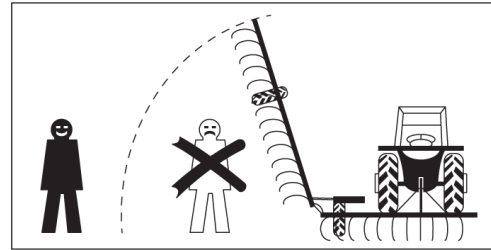
ZEIL21TIL0496FA 2

Safety sign (1)

Do not stand near the implement during lowering or leveling the implement.

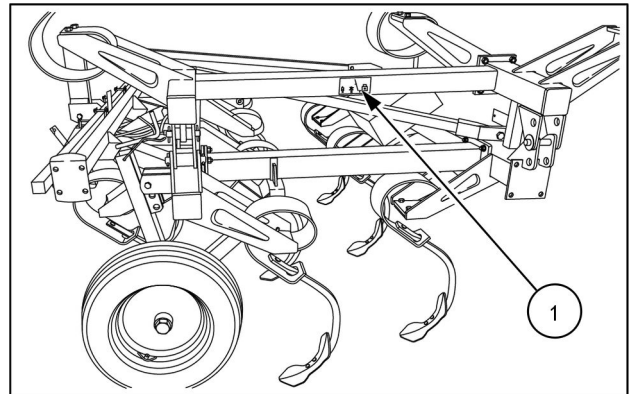
Do not stand between the tractor and the implement or underneath the implement when operating the equipment. It may cause serious injuries.

Part number: 101000336



101000336 3

Located on both side arms.

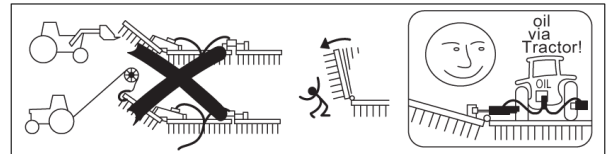


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Safety sign (2)

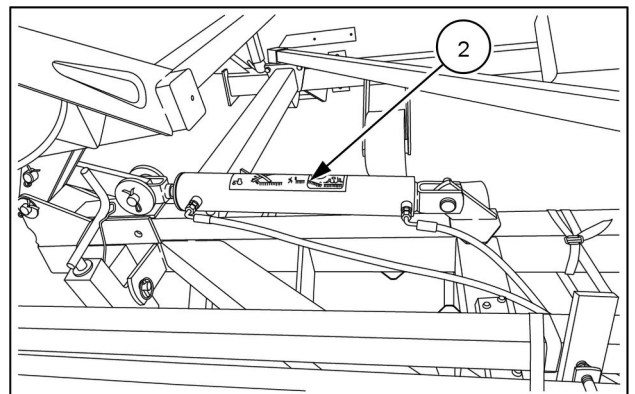
Do not raise the side arms in any other way than through the hydraulic system of the tractor. Failure to comply can result in damage to the implement.

Part number: 101000337



101000337 5

Located on both cylinders.

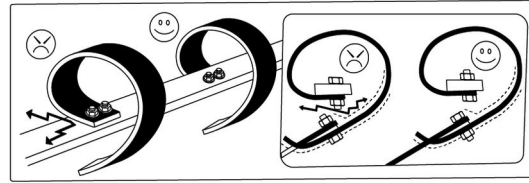


ZEIL22TIL0187AA 6

Safety sign (3)

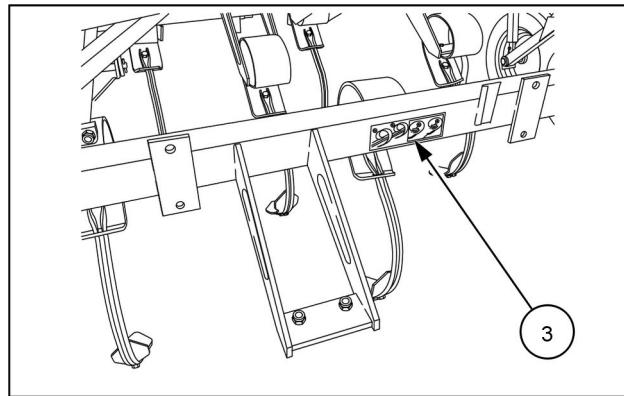
Do not fit the tines in the upper of the bar.
Do not screw the bolts of the tines in any other way.
Failure to comply can result in damage to the implement.

Part number: 106000185



ZEIL21FR00649AA 7

Located on the rear frame.

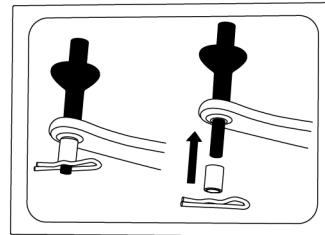


ZEIL22TIL0184AA 8

Safety sign (4)

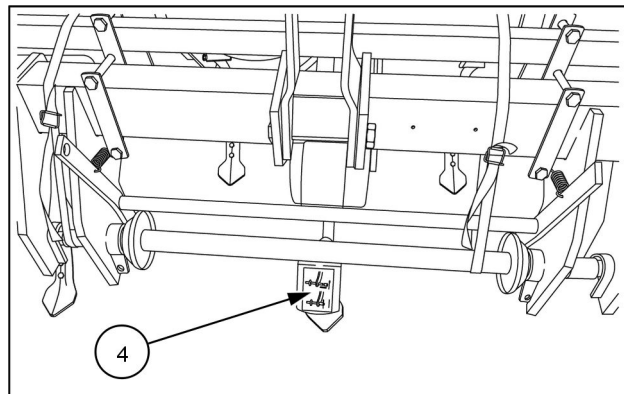
Place the bush on the draw pin.
Place the bush and the hair pin clip on the outside of the hitch point of the lower link so that they support the drawbar against the outer draw hooks on the cultivator.
Failure to comply can result in damage to the drawbar.

Part number: 101000620



ZEIL21FR00650AA 9

Located on the drawbar.



ZEIL22TIL0186AA 10

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, perform the following items:

- Read this operator's manual carefully; especially the chapter headed "Safety information".
- Check the correct assembly of the implement. Also check that the implement is undamaged.
- Check that no parts have been tied up inside the implement in connection with the delivery of the implement.
- Remove all the tools from the implement.
- Check the implement visually to find possible errors. Always replace all parts that are damaged or wear.
- Connect the implement to the tractor and check if the subassemblies work properly.
- Check the correct connection and tightening of the hydraulic components.
- Check the entire hydraulic system – all pipes, hoses and connections. Upon noticing any traces of damages or even the slightest leaks make sure to replace these parts.
- Check that the hydraulic hoses are long enough for the movements of the implement in relation to the tractor.
- Check the length of the hydraulic hoses when the implement is in working position. Check that the hydraulic hoses are not too tense.
- Grease sufficiently the implement (see Page 7-8).
- The air pressure of the tractor tires must be the same for the left-hand and right-hand rear wheel. This applies also to the front wheels. Refer to the operating instructions supplied by the tractor manufacturer.
- Check the proper tightness of all the nuts and bolts.
- Check if the electrical installation works properly, including the lights.

NOTE: *If there is any doubt, stop the tractor and the implement immediately. If necessary, seek authorized assistance.*

Starting the unit

Connection to the tractor

⚠ WARNING

Avoid injury!

Always stay clear of the implement operating area. In particular, **DO NOT** stand between the tractor and the trailed vehicle or either three-point linkage when operating lift controls. Make sure no bystanders are within or near these operating areas.

Failure to comply could result in death or serious injury.

W1087A

⚠ WARNING

Rear upset hazard!

Use the correct location on the tractor when attaching equipment. Always use the drawbar for trailed equipment. Always use the three-point hitch for mounted or semi-mounted equipment. Do not use the hitch as a drawbar.

Failure to comply could result in death or serious injury.

W0331B

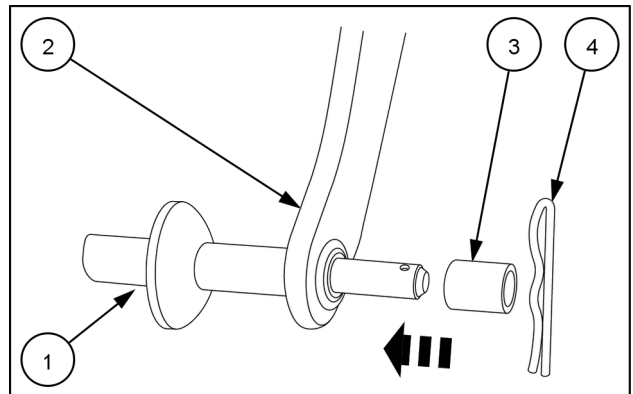
NOTE: Use original and correct coupling parts.

1. Place the drawbar (1) of the cultivator in the lower links (2) of the tractor.
2. Place the bushes (3) on the draw pins.

NOTE: Make sure to place the bushes on the outside of the hitch points of the lower links so that they support the drawbar against the outer draw hooks on the cultivator.

Otherwise the drawbar may easily become overloaded and break.

3. Fit the hair pin clips (4).
4. Back the tractor towards the cultivator till the hitch points of the lower links (2) are below the gaps between the draw hooks.
5. Raise the drawbar with the tractor lift till it is caught in the draw hooks.
6. Mount the top link.
7. Make sure all functions work correctly.



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Parking the unit

Disconnection and parking

⚠ WARNING

Avoid injury!

Always stay clear of the implement operating area. In particular, DO NOT stand between the tractor and the trailed vehicle or either three-point linkage when operating lift controls. Make sure no bystanders are within or near these operating areas.

Failure to comply could result in death or serious injury.

W1087A

⚠ WARNING

Pressurized system!

Before removing the attachment from the machine, make sure the air pressure and hydraulic oil pressure are at zero.

Failure to comply could result in death or serious injury.

W0284A

⚠ WARNING

Overturning hazard!

Always try to park the machine on firm level ground. Avoid parking on slopes. Block the wheels in both directions.

Failure to comply could result in death or serious injury.

W0051A

NOTICE: *Before you disconnect the implement from the three-point hitch, put the operating mechanism into a position which will prevent any accidental lifting or lowering.*

Before you disconnect the implement from the tractor, perform the following preparations:

- Turn off the tractor, and then remove the key.
- Park the stubble cultivator on firm and level ground.

To disconnect the implement from the tractor, proceed as follows:

1. Lower completely the cultivator to the ground.
2. If you use an implement with hydraulically foldable frame, fold completely the implement.
3. Remove any pressure from the hydraulic system.
4. Uncouple the hydraulic hoses from the tractor.
5. Disconnect the light equipment (optional).
6. Remove the top link and release the quick coupling.
7. Take the drawbar from the tractor and place it on the cultivator.
8. After the disconnection, check that the stubble cultivator rests in a safe position.

5 - TRANSPORT OPERATIONS

Road transport

Transport position

When the stubble cultivator is connected to the three-point hitch and is in transport position, ensure sufficient locking at the side of the three-point linkage.

NOTE: *Adjust the limiting chains/stabilizer in such a way that the implement cannot swing out sideways.*

Do not transport the stubble cultivators with a width larger than **3 m (118.11 in)** on public roads, when the stubble cultivator is connected to the tractor. To transport the implements wider than **3 m (118.11 in)** on public roads, you need a special permit from the appropriate authorities.

If the stubble cultivator projects more than **40 cm (15.75 in)** beyond the front side lights of the tractor, identify the implement to the front side. Use warning signs and foils during the day and lights at the front during the night or periods of poor visibility.

If the stubble cultivator conceals the lights of the tractor, duplicate the direction indicators as well as the licence plate of the tractor on the stubble cultivator. The lighting equipment with warning sign are options.

NOTICE: *Remove the lighting equipment and the warning signs before you work in the field to avoid damage.*

To transport the implement on public roads:

- Lock the control valves of the tractor.
- Make sure that the implement is secure, that nothing falls off, including big lumps of soil, during transport..
- To give a lower center of gravity, and thereby a more stable transport, it is recommend to lower the implement to a lower level, so that you keep sufficient distance to the road during transport.
- Secure the hydraulically foldable frame parts for transportation on public roads against any accidental folding out by turning the stopcock of the implement to the close position.
- Check that any light kits and warning plates work properly and clean.
- Use warning signs or markers to identify the stubble cultivator during the day.

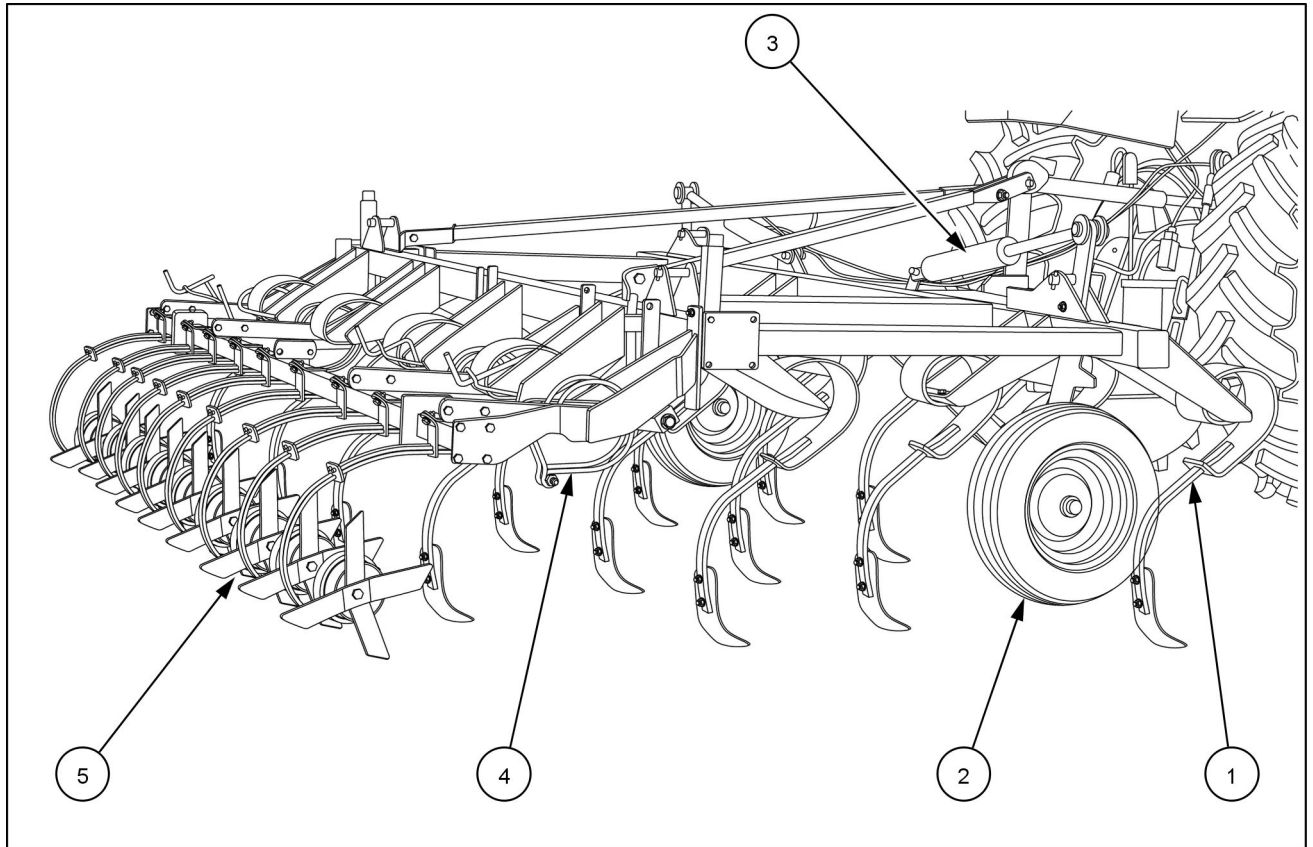
NOTE: *During the night and periods of poor visibility, use tail lights and reflectors to complement the warning signs or markers.*

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

6 - WORKING OPERATIONS

General information

Implement overview



ZEIL21TIL0305FA 1

The KONGSKILDE Vibro Flex 4300 is made of a heavy duty box section and has four rows of vibrating tines **(1)**. The tine spacing is **22.5 cm (8.86 in)**.

The tines and the high underbeam clearance ensure a very intensive mixing of soil with straw or plant residue.

Depth control is achieved by the two rubber wheels **(2)** fitted to the main frame. Due to their location within the front row of tines, blocking does not occur even with large quantities of straw.

Hydraulic cylinders **(3)** are fitted to the larger models for folding the side extensions. The side extensions, when folded, lie flat on the main frame. This ensures that no tines are protruding during transport.

A furrow leveller system **(4)** is provided for levelling tine marks. Adjustment for depth is by way of a spindle.

The KONGSKILDE Vibro Flex 4300 can be fitted with a Rotaflex **(5)** useful to remove the tine marks from the soil surface.

The stubble cultivator has a transport width of **3.0 m (118.1 in)**. The widest working width is **4.3 m (169.3 in)**.

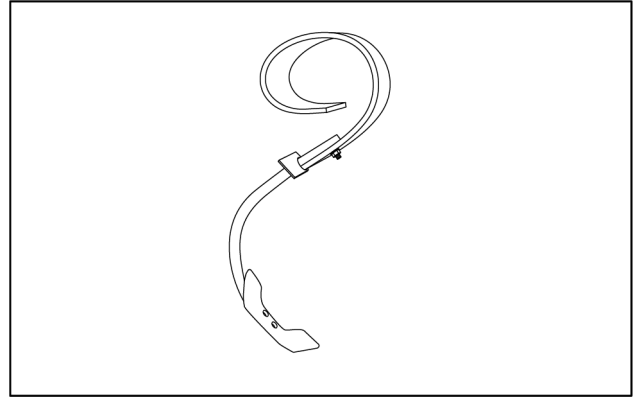
The type of tines utilized by the KONGSKILDE Vibro Flex 4300 is the VFM tine.

This tine combined with the **11 cm (4.33 in)** heavy duty reversible share is designed for handling and incorporating large amounts of straw and plant residue.

The VFM tine consists of a top spring made of **12 mm (0.5 in)** thick metal, a unique tine stem and a heavy duty reversible share.

The unique stem has two bends so that a mixing zone is established between them which results in both products being mixed together for a longer period of time.

Due to this design soil is raised and plant residue is lowered.



ZEIL21TIL0309AA 2

Working in the field

Working speed

It is extremely important that the stubble cultivator works at the right speed.

At speeds below **6 km/h (3.7 mph)**, the tines cannot vibrate with sufficient force and the furrow leveller will not even out the and mix so efficiently.

The recommended speed is **8 – 12 km/h (5 – 7.5 mph)**. At this speed the tines will achieve the most efficient vibrations, both furrow leveller and the cultivator will perform the best job and you will have a good mixing of the soil and field residues as a result.

Never drive the tractor backward with the tines in the soil. Raise the cultivator to avoid the overload of the tines, as this can lead to breakage of the tines.

Turning

When you find the correct position of the lower link arms, use only the hydraulic system of the stubble cultivator to raise and lower the implement during headland turns.

Never turn the stubble cultivator so sharply in a way you force the tines sideways and backward. The result of the load is in excess of what the tines can support.

Raising side extensions

Before the cultivator is to be used the hydraulic system for raising the side extensions is to be bled.

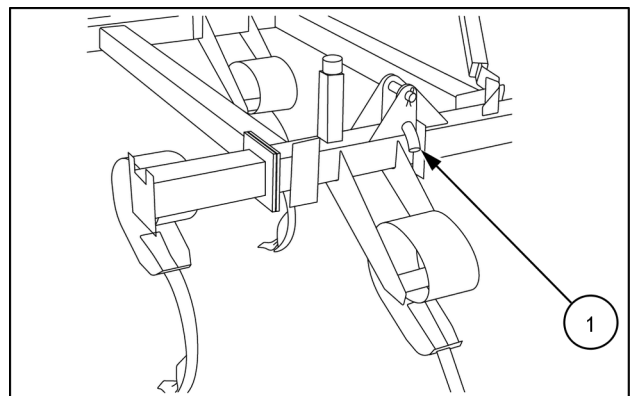
Should there be some air in the system the side extensions may fall with a crash when lowered.

Dismantle the piston rod **(1)** and put pressure on the cylinders so that the piston rod moves back and forth a couple of times. Then remount the piston rod **(1)**.

Lock the side extensions with split bolts in raised and lowered position.

NOTE: Remember to remove the split bolts before operating the hydraulic system.

The side extensions must only be raised by using the hydraulics. If the extensions are raised by crane or similar means, air enters the system, and, when lowered, the side extensions will drop with a bang.



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Adjustments

Working adjustment

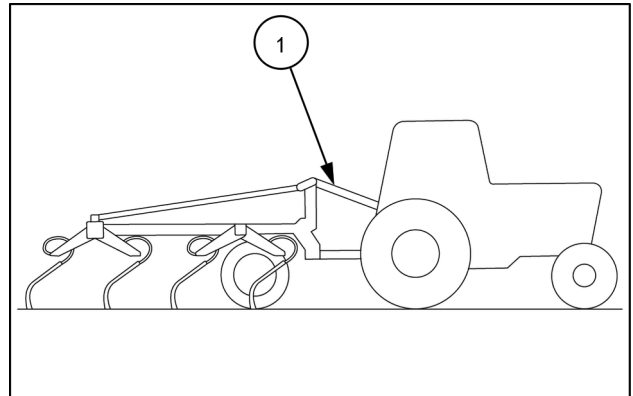
The stubble cultivator frame is horizontal during work to make both the front and the rear row of tines work at the same depth.

This is adjusted by means of the tractor top link **(1)**.

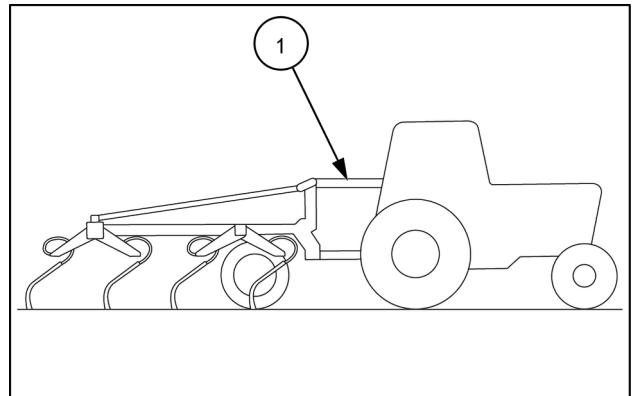
A short top link raises the rear row of tines, whereas a lengthened top link lowers the rear row of tines.

When the cultivator works in the field, the top link **(1)** is lower at the tractor end than at the headstock of the cultivator.

The top link **(1)** must never be horizontal or parallel to the lower linkages as the cultivator will run unsteadily and make the steering of the tractor difficult.



ZEIL21TIL0291AB 1



ZEIL21TIL0292AB 2

Adjustment of wheels

⚠ WARNING

Avoid injury!

Always engage the parking brake and switch off the engine before working on the machine.

Failure to comply could result in death or serious injury.

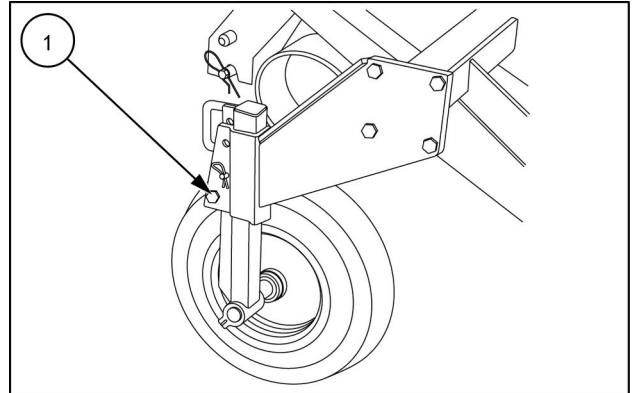
W1046A

The working depth of the stubble cultivator is adjusted by means of the wheels.

The wheels can be adjusted more easily raising the cultivator on the tractor.

On regular cultivators, tighten the bolt **(1)** after adjustment of the wheel.

NOTE: Always set all wheels to the same height.



ZEIL21TIL0285AA 1

On the larger cultivators with wheels on the side extensions the same adjustment on the middle section and side extensions not always results in the same working depth for all tines.

The wheels on the middle carry a greater weight than the wheels of the side extensions and consequently will go deeper in loose soil.

Adjustment of furrow leveller

⚠ WARNING

Avoid injury!

Always engage the parking brake and switch off the engine before working on the machine.

Failure to comply could result in death or serious injury.

W1046A

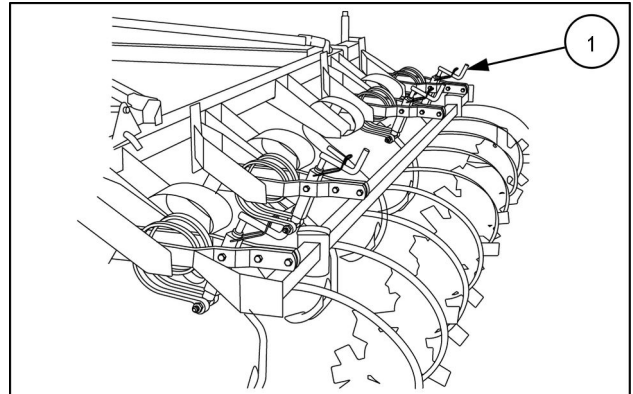
Adjustment of the working depth

The working depth of the furrow leveller is adjusted by means of the spindles (1).

Do not go deeper than necessary to level the ridges of the hindmost tines.

If the furrow leveller is set too deep it will throw too much soil back into the tine tracks, and the field will not be level.

NOTE: Never set the furrow leveller so deep that the blade sections carry the cultivator. This causes unstable cultivator working depth.

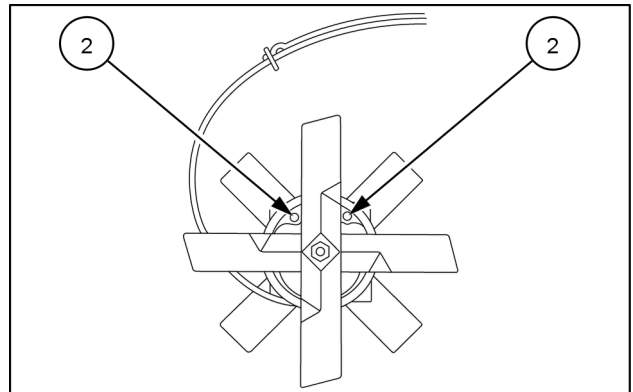


ZEIL21TIL0287AA 1

Scraper for blade sections

To prevent that the hub is filled up with soil and thereby worn to pieces, a scraper bolt (2) is fitted on either side of the hub.

Replace the scraper bolts when they are so worn that they cannot keep the hub clean.



ZEIL21TIL0286AA 2

7 - MAINTENANCE

General information

General

WARNING

Improper operation or service of this machine can result in an accident.

If you do not understand a maintenance procedure, or doubt your ability to perform a maintenance procedure correctly, see your authorized dealer.

Failure to comply could result in death or serious injury.

W0157A

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

WARNING

Knife hazard!

Use care handling sharp components. Always wear appropriate Personal Protective Equipment (PPE), including heavy gloves.

Failure to comply could result in death or serious injury.

W0274A

NOTICE: Be sure that all the service operations in this chapter are carried out punctually at the intervals given, in order to ensure optimum performance levels and maximum safety when using the implement.

Adequate lubrication and maintenance on a regular schedule is vital to maintain your implement. To ensure long service and efficient operation, follow the lubrication and maintenance schedules outlined in this operator's manual. The use of proper oils, grease, and filters, as well as keeping the systems clean, will also extend the implement and components life.

NOTICE: Failure to complete the required maintenance at the recommended intervals can cause unnecessary downtime.

Use the intervals listed in the maintenance chart as guidelines when you operate in normal conditions. Adjust the intervals when you operate in adverse environmental and working conditions. Shorten the intervals for sandy, dusty, and extremely hot operating conditions.

NOTICE: *While any company can perform necessary maintenance or repairs on your implement, KONGSKILDE strongly recommends that you use only authorized KONGSKILDE dealers and products that meet given specifications. Improperly or incorrectly performed maintenance and repair voids the equipment warranty and may affect service intervals.*

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 you repair or maintain the implement it is especially important to ensure the correct personal safety. Therefore, always park the tractor (if mounted) and the implement safely.

NOTE: *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.*

Only use original KONGSKILDE spare parts to avoid unintentional risks and damages.

Install the used spare parts correctly and torque all the bolts and nuts to the correct tightening torque.

NOTICE: *Worn and damaged parts must be changed at the earliest possible moment in order to secure correct and safe function.*

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

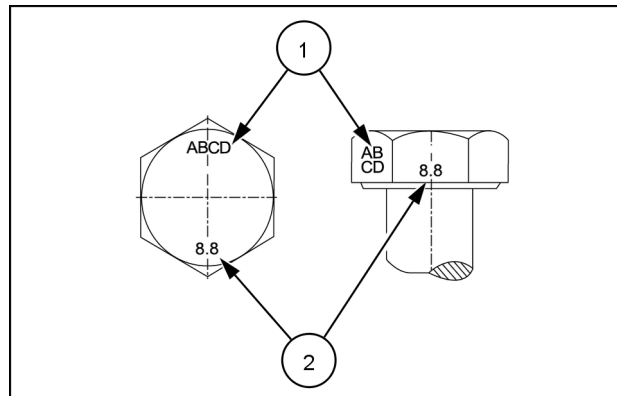
Nominal Size	Class 8.8 in N m (lb in or lb ft)			Class 10.9 in N m (lb in or lb ft)		
	Plated nut	Lock nut	Hardened nut/Oiled plated nut	Plated nut	Lock nut	Hardened nut/Oiled plated nut
M3	1.3 N·m (11.5 lb in)	0.7 N·m (6.2 lb in)	1.2 N·m (10.6 lb in)	1.8 N·m (15.9 lb in)	0.9 N·m (8.0 lb in)	1.6 N·m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

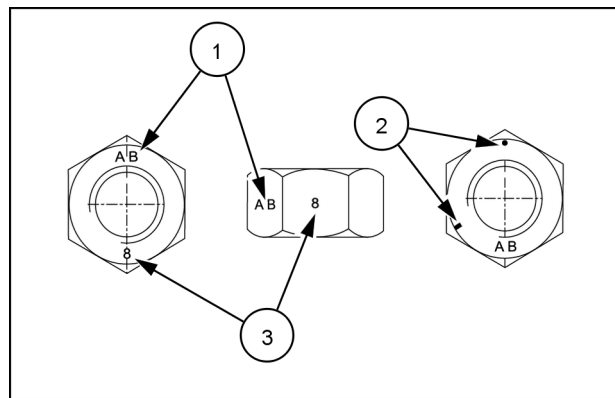


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Metric bolt identification markings

1. Manufacturer's identification
2. Property class

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



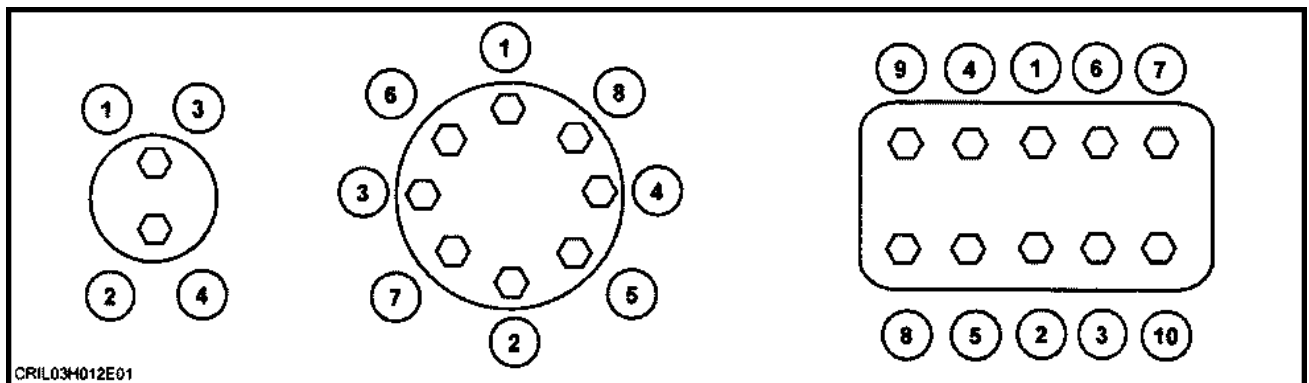
NHIL14RB00663AA 2

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.



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DF5019-1 3

Grease fittings and intervals

Regular lubrication is the best insurance against delays and repairs. Proper lubrication will extend the life of the implement.

Grease fittings

On new implements, the grease fitting may be covered with paint. Remove the paint to ensure the grease fitting can accept grease.

Wipe the dirt from all of the fittings and from the grease gun nozzle before you grease the implement to minimize the chance of contamination.

Pump fresh grease into the fitting to adequately lubricate the component and force out any contamination from the grease passage. Wipe off any excess grease.

Follow the lubrication schedule outlined in this operator's manual. Refer to the illustrations to identify each grease fitting on this implement.

Not all grease fittings are readily visible. Various grease fittings can only be accessed through the removal of shields or guards. Always install the shields or guards before you operate the implement.

Grease guns

Different types of grease guns provide a different amount of grease per pump of the handle.

Two commonly used grease gun types are as follows:

- (1) Pistol grip-style grease gun
- (2) Lever-style grease gun

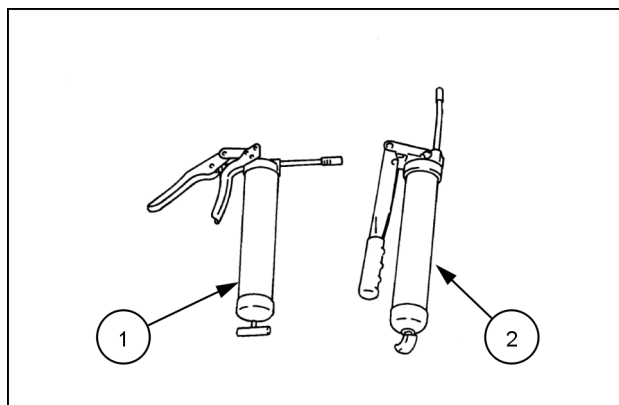
In general, a pistol grip-style grease gun injects half of the amount of grease per pump as a lever-style grease gun.

For listed components to grease on this implement, the number of pumps of grease for each grease location are based on the use of a pistol grip-style grease gun **(1)**.

If you use a lever-style grease gun, use only half of the indicated number of pumps of grease.

Grease specification

See Page **7-8** for the correct grease specification.



1431-2-58N 1

Pressure washing

WARNING

Flying debris!

Always wear protective clothing and safety glasses or a face shield when using a steam cleaner or power washer.

Failure to comply could result in death or serious injury.

W0314A

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

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

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.

Be careful when you clean the implement with a high pressure washing. Avoid to direct water jets on electric equipment, bearings, seals, gearboxes, etcetera.

Grease all grease fittings carefully after you clean the implement to press possible water outside bearings.

When you use a high pressure washer:

- Keep a minimum distance of **30 cm (12 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: **60 °C (140 °F)**.
- Maximum water pressure: **60 bar (870 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.

Fluids, lubricants, and capacities

Application	Capacity	Product name	Specification(s)
Grease fittings	-	TUTELA MULTI-PURPOSE GR-9 GREASE or TUTELA 75 MD GREASE	M1C 137-A or M1C 75-B

Maintenance planning

Overview

				Check		Grease	
				Tighten		Replace	
Maintenance action						Page no.	
After the first 10 hours							
Nuts and bolts				x			7-10
Wheels and tires - check					x		7-10
Every 25 hours							
25 hours grease fittings						x	7-10
Every 50 hours							
Wheels and tires - check					x		7-10
Every 100 hours							
Nuts and bolts				x			7-10
As required							
Change of shares						x	7-11

After the first 10 hours

Nuts and bolts

Torque again all the nuts and screws after the first **10 h**.

Wheels and tires - check

NOTICE: Check the wheels and tires after the first **10 h** of operation. Make sure to torque the wheel hardware any time that you remove and install a wheel.

NOTICE: Do not substitute a tire of a different size. A substitute tire size may compromise the load-carrying capacity.

1. Check the tire pressure and inflate the tires, if necessary. See Page **9-3** to check the recommended tire pressure.

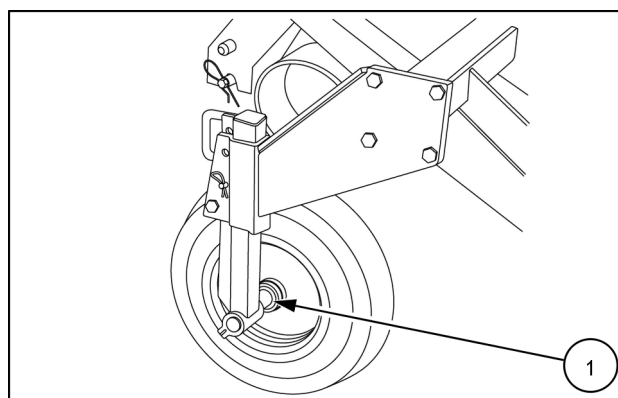
NOTE: Make sure that the tires are set to the same tire pressure.

2. Check the torque of the wheel hardware.

Every 25 hours

25 hours grease fittings

1. Wheel hubs (2x).



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Every 50 hours

Wheels and tires - check

Check the wheels and tires every **50 h** of operation. Perform a follow-up check of the wheel hardware torque after every **50 h** of operation. Make sure to torque the wheel hardware any time that you remove and install a wheel.

Every 100 hours

Nuts and bolts

Torque again all the nuts and the screws every **100 h**.

As required

Change of shares

Perform a change of shares when they are damaged or worn.

NOTICE: *Stop the tractor and apply the handbrake before anybody goes underneath to change the shares.*

NOTE: *Use suitable tools for changing the shares.*

To replace a share, proceed as follows:

1. Raise the stubble cultivator a few centimeters on the tractor lift.
2. Remove the old share.
3. Clean the tine.
4. Insert a new share.

Storage

End of season service

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

To prepare the implement for winter storage, proceed as follows:

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 screw-joints, 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. The piston rod of the hydraulic cylinders may get rusty. Clean with brush and grease the components in order to protect them against wind and weather.
6. Dismount the hydraulics and electronic cables and wires, keep the ends dry.
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.*

Implement long-term storage and/or disposal

When the implement reaches the end of its useful life, observe the following recommendations for disposal:

- See your KONGSKILDE dealer to make an agreement for your dealer to properly dispose of the implement, or
- Sell the implement to a company that specializes in the proper disposal of industrial machinery.

If you want to keep the implement on your premises (for spare parts or other reusable components, etc.) you must observe the following instructions:

1. Park the implement on hard and level ground. Bring all moveable components to the lowest position and/or safest position.
2. Store the implement with the axles on wooden blocks in order to keep the implement upright, as the tires will deflate over time.
3. Drain the oil from gearbox, and hydraulic systems into appropriate containers. Take the oil to your local waste recycling facility. Pay attention to local rules that may require you to store the different types of oils separately. Remove the filters (if available).

NOTE: *The implement is now ready for a long-term storage and/or for scrapping after the removal of reusable components.*

Long-term storage

The assigned storage life for the implement is minimum seven years, during this time the implement must be packed in a dry and clean place without condensation.

NOTE: *All the requirements for the storage of the implement must be met.*

Scrapping

When you scrap the vehicle, you must keep materials apart. Separate the following:

- Plastics
- Rubber hoses
- Belts
- Electric and electronic components
- Tires
- Wiring harnesses
- Sheet metal
- Castings
- Weld assemblies
- Aluminium
- Any other additional category

NOTE: *See your local waste recycling facility for specific rules on how to deliver the scrapped materials.*

When you dismount mechanical systems, make sure that there is no risk of residual energy (such as compressed springs in belt variators). If you do not have the proper tools or instructions to disassemble a system or component, contact your KONGSKILDE dealer to perform this service.

NOTE: *Make sure that the implement maintains stability during the dismantling process.*

Ordering parts and/or accessories 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

General

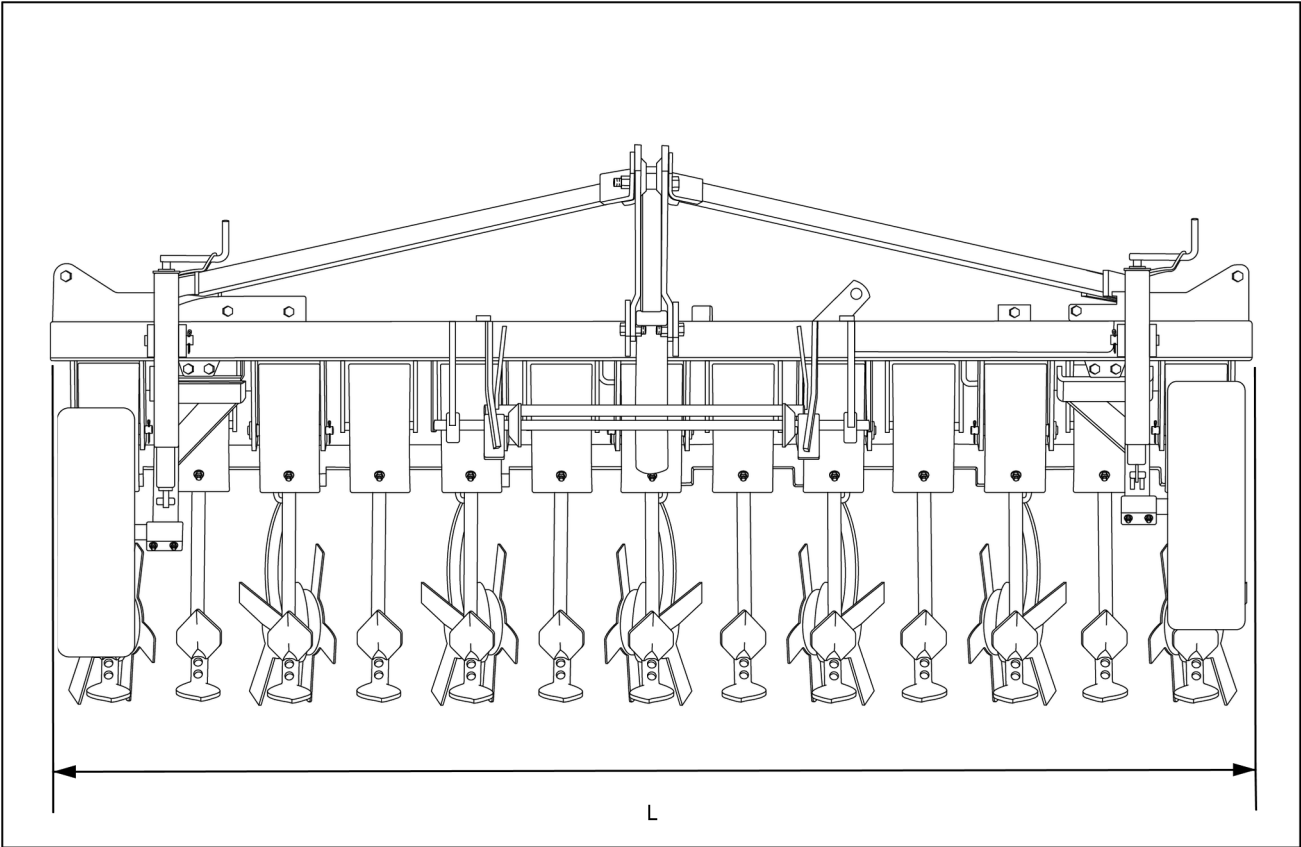
This chapter describes the easy diagnostic methods for generic problems and the related remedies for them. If you cannot find the cause of a problem or solve a problem, consult the KONGSKILDE dealer.

Troubleshooting chart

Problem	Possible Cause	Correction
Poor soil mixing with crop residues.	Low working depth.	Increase working depth.
	Incorrect leveling of the implement.	<ul style="list-style-type: none"> Adjust the top link length (only with lift mounted implements). Adjust the drawbar and the lower link of tractor (only with trailed implements).
	Low working speed.	Increase the working speed to the recommended value.
	Worn working parts.	Replace the worn parts.
Uneven work pattern behind.	Wrong settings of the level unit.	Check and adjust the setting of the leveling unit.
Tines rows clog with crop material.	Wrong working depth.	<ul style="list-style-type: none"> Raise and lower the implement again. Check and adjust the working depth.

9 - SPECIFICATIONS

Dimensions



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Dimension	KONGSKILDE Vibro Flex 4313	KONGSKILDE Vibro Flex 4315 F	KONGSKILDE Vibro Flex 4317	KONGSKILDE Vibro Flex 4319
L	2925 mm (115 in)	3375 mm (133 in)	3825 mm (151 in)	4275 mm (168 in)

Technical data

Stubble cultivators with VF tines

Technical data	Vibro Flex 4313	Vibro Flex 4315 F	Vibro Flex 4317	Vibro Flex 4319
Power requirement	65 – 95 kW (88 – 129 hp)	75 – 110 kW (102 – 150 hp)	85 – 125 kW (116 – 170 hp)	95 – 140 kW (129 – 190 hp)
Working width	3.0 m (118.1 in)	3.4 m (133.9 in)	3.85 m (151.6 in)	4.3 m (169.3 in)
Transport width	3.0 m (118.1 in)	3.45 m (135.8 in)	3.0 m (118.1 in)	3.0 m (118.1 in)
Total weight	670 kg (1477.10 lb)	750 kg (1653.47 lb)	880 kg (1940.07 lb)	940 kg (2072.35 lb)
Type of folding	-	Manual	Hydraulic	Hydraulic
Number of tines	13	15	17	19
Tine spacing	225 mm (8.86 in)	225 mm (8.86 in)	225 mm (8.86 in)	225 mm (8.86 in)

Stubble cultivators with VFM tines

Technical data	Vibro Flex 4313	Vibro Flex 4315 F	Vibro Flex 4317	Vibro Flex 4319
Power requirement	65 – 100 kW (88 – 136 hp)	75 – 115 kW (102 – 156 hp)	85 – 130 kW (116 – 177 hp)	95 – 145 kW (129 – 197 hp)
Working width	3.0 m (118.1 in)	3.4 m (133.9 in)	3.85 m (151.6 in)	4.3 m (169.3 in)
Transport width	3.0 m (118.1 in)	3.45 m (135.8 in)	3.0 m (118.1 in)	3.0 m (118.1 in)
Total weight	710 kg (1565.28 lb)	790 kg (1741.65 lb)	925 kg (2039.28 lb)	990 kg (2182.58 lb)
Type of folding	-	Manual	Hydraulic	Hydraulic
Number of tines	13	15	17	19
Tine spacing	225 mm (8.86 in)	225 mm (8.86 in)	225 mm (8.86 in)	225 mm (8.86 in)

Fluids, lubricants, and capacities

Application	Capacity	Product name	Specification(s)
Grease fittings	-	TUTELA MULTI-PURPOSE GR-9 GREASE or TUTELA 75 MD GREASE	M1C 137-A or M1C 75-B

Tire pressure

	with VF tire	with VFM tire
Tire dimension	6.00 x 12	24 x 8.00 - 14.5
Recommended pressure	2.1 bar (30.5 psi)	4.5 bar (65.2 psi)

10 - ACCESSORIES

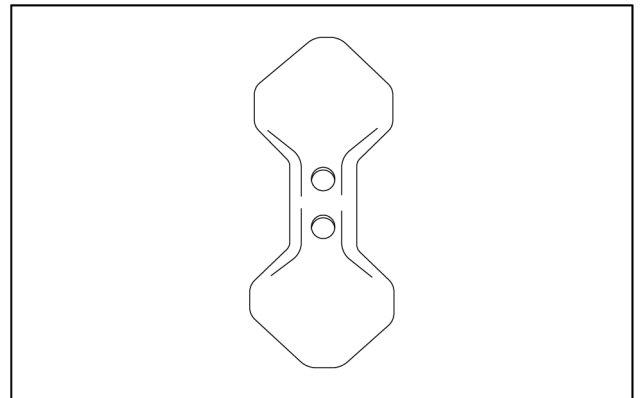
General information

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.

Tine section

The implement is equipped with vibrating tines that can have different types of share for specific purposes.

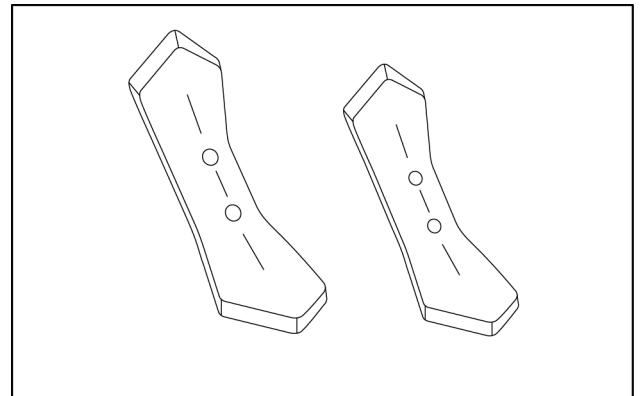
The Ultra share is the choice for deeper tillage. The Ultra share only consists of a point.



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The Mulching share is for cultivating in large quantities of straw on stubble.

It is a **11 cm (4.3 in)** standard or heavy duty reversible share.



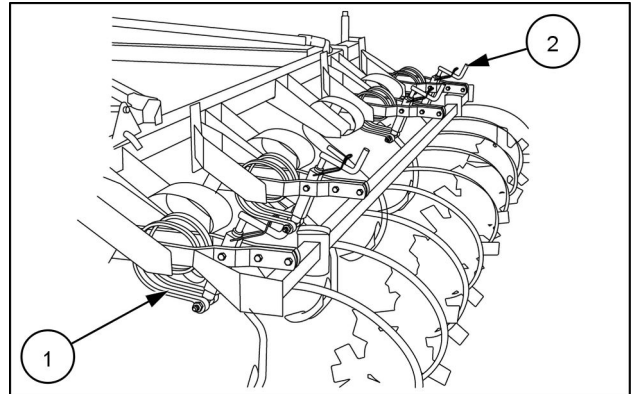
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Furrow leveller

The furrow leveller system **(1)** is used for levelling the tine marks. The system consist of different individual spring loaded elements.

These elements can handle large amounts of residue and are self cleaning.

Depth control can be adjusted by means of a spindle **(2)**.



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Rotaflex

The tine marks made by the tines are very effective against soil erosion but very uncomfortable for the tractor driver when working in the opposite direction.

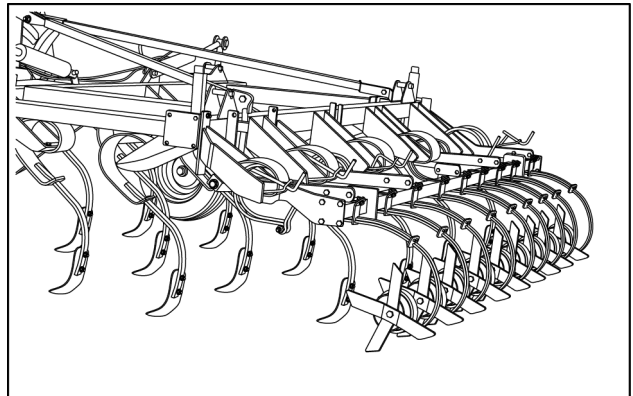
The Rotaflex which can be fitted behind the Vibro Flex 4300 cultivators is specially designed to remove these tine marks thus leaving a level surface.

In addition to this the Rotaflex mixes soil, straw and stubble.

The Rotaflex is built from individual spring loaded elements. Pressure adjustment is done by individual spindles.

Every element is self cleaning. All the elements are bolted on a frame which, in turn, is mounted on the implement main frame and side wings.

When the stubble cultivator is folded, the Rotaflex is automatically folded as well.

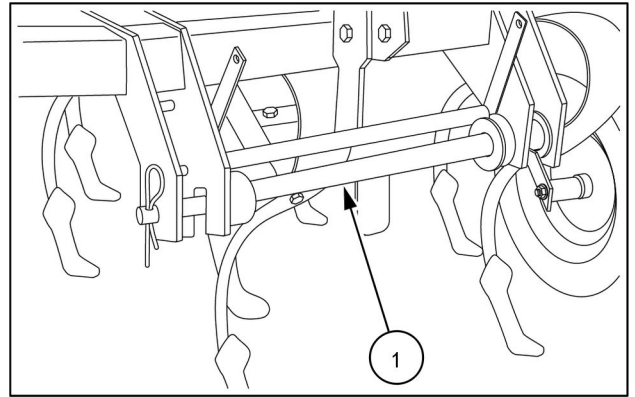


ZEIL21TIL0297AA 1

Quick release drawbar

A linkage or drawbar **(1)** connects the stubble to the tractor.

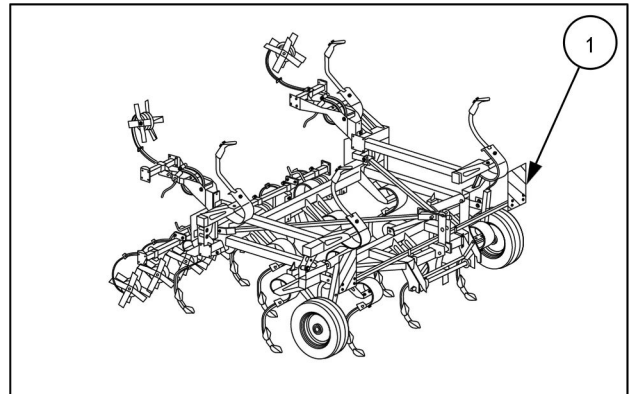
This quick release drawbar is fitted for convenience in the place of the standard 3-point hitch and makes the cultivator available as a pull type.



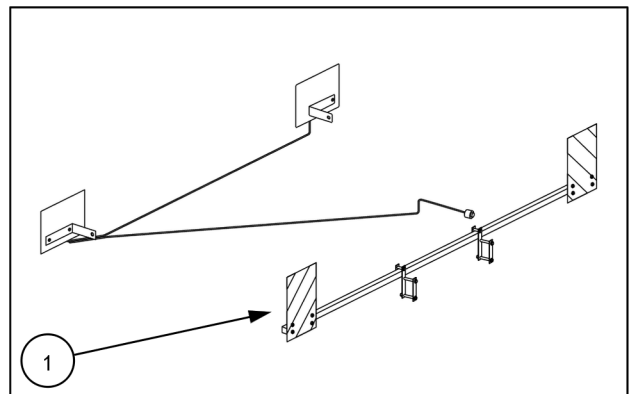
ZEIL21TIL0310AA 1

Light kit

The light kit and plates **(1)** are present in transport position of the implement. This kit marks the rear of the implement.



ZEIL22TIL0112AA 1



ZEIL22TIL0113AA 2

11 - FORMS AND DECLARATIONS

European Community (EC) Declaration of Conformity

ACCORDING TO DIRECTIVES 2006/42/EC & 2014/30/EU

Inside the European Community and for some specific countries, an EC Declaration of Conformity is separately delivered with your implement. The EC Declaration of Conformity is the manufacturer's declaration about equipment compliance to relevant European Union (EU) provisions.

Store the EC Declaration into a safe place like the storage box for your operator's manual. Local authorities may require you to show this document in order to assure compliance of your equipment.

Translation of this declaration in your own country language is provided on the original document.

Class of 2006/42/EC Annex I	BG ЕОЕС Декларация за съответствие съгласно Директивите 2006/42/ЕО и 2014/30/ЕО	CS EÚES Prohlášení o shodě podle směrnice 2006/42/ES a 2014/30/EU	DA EØEU overensstemmelseserklæring efter direktivene 2006/42/EF & 2014/30/EU	DE EØEU Konformitätserklärung Gemäß den Richtlinien 2006/42/EG & 2014/30/EU	EL ΕΚΕΣ Δήλωση συμμόρφωσης Σύμφωνα με τις οδηγίες 2006/42/ΕΚ και 2014/30/ΕΚ
1.A.1	Имя [1] декларация под мою собственную ответственность, за соответствие:	Mě [1] prohláším na vlastní odpovědnost, že výrobek:	Ví [1] erklærer hermed at nedenstående bestemte produkt:	WV [1] erkläre hiermit in eigener Verantwortung, dass das Produkt:	Επί [1] Συμμετάω με προσωπική μου ευθύνη, καίτοι αν το ηρώπη:
1.A.3	Свойство изделия Торговое наименование и модель [2] Обозначение [3] Тип (варианты вариантов/версии) [4] Числовой [5] Сериальный [6]	Земельный адрес Обозначение и модель [2] Обозначение [3] Тип (варианты вариантов/версии) [4] Модельный [5] Серийный [6]	Landesbeschriftung Kommunikations- und Modell [2] Beschriftung [3] Type (einschließlich Varianten/Varianten) [4] Seriennummer [5] Seriennummer [6]	Landbeschriftung Kommunikations- und Modell [2] Beschriftung [3] Type (einschließlich Varianten/Varianten) [4] Seriennummer [5] Seriennummer [6]	Τύπος μηχανήματος Ευρωπαϊκή, με αριθμητικό και ποσοτικό [2] Ονομασία [3] Τύπος (Είδη διάφορα/εναλλακτικές/εναλλακτικές) [4] Κωδικός, αριθμητικό [5] Αριθμητικό, ποσοτικό [6]
1.A.4	за кого се издава настоящата декларация, съгласно на която съответността декларирани са Декларация 2006/42/ЕО и 2014/30/ЕО, издадена от [7]	Identifikace toho, pro koho se vydává prohlášení shody, podle kterého odpovídá požadavkům směrnice 2006/42/ES a 2014/30/EU, vydané od [7]	hvadl denne erklæring hermed, og/eller alle de relevante bestemmelser i direktivene 2006/42/EF & 2014/30/EU, erklære ved [7]	auf das sich diese Erklärung bezieht, aber einschließlichen Bestimmungen der Richtlinien 2006/42/EG & 2014/30/EU, erkläre ich [7]	από οποίο εκδίδεται η παρούσα Δήλωση, η οποία έχει ως προϋπόθεση την ομοφωνία 2006/42/ΕΚ και 2014/30/ΕΚ, όπως περιγράφεται από [7]
1.A.7	да съответното съответствие на декларацията на Европейския съюз е предоставено от декларирания оператор (декларирания оператор) [8]	implikace prohlášení shody byly harmonizovány s relevantními ustanoveními [8]	for at oplynde de nævnte bestemmelser i direktivene og/eller de relevante bestemmelser i standarden [8]	bei der Umsetzung der Vorschriften der jeweiligen Richtlinien wurden die folgenden (harmonisierten) Normen angewendet [8]	Γα τη δήλωση, υπογράφηκε με άρση της μου απόδοσης της Οδηγίας, εφαρμόζοντας τα εκδιδόμενα (εναρμονισμένα) πρότυπα [8]
1.A.2	Имя [9] Должность [10] и адрес [11] на место, уполномоченное на составление технического документа:	Место [9] Должность [10] и адрес [11] на место, уполномоченное на составление технического документа:	Stilling [10] og adresse [11] for den bemyndigede person der har tilkendelse til at udarbejde de tekniske dokumenter:	Stellung [10] und Anschrift [11] der Person, die bevollmächtigt ist, die technischen Unterlagen auszuarbeiten:	Όνομα [9] Επίσημο [10] και διεύθυνση [11] στο εξουσιοδοτημένο πρόσωπο να εκδώσει τεχνικά έγγραφα:
1.A.5	Имя [12] и адрес [13] на основание на декларацията:	Место [12] и адрес [13] на основание на декларацията:	Sted [12] og adresse [13] for erklæringen:	Ort [12] und Adresse [13] der Erklärung:	Όνομα [12] και διεύθυνση [13] της Δήλωσης:
1.A.10	Полное [14] Имя [15] и адрес [16] на место, уполномоченное на составление Декларации о соответствии:	Полное [14] Имя [15] и адрес [16] на место, уполномоченное на составление Декларации о соответствии:	Underkrevet [14] Navn [15] og adresse [16] på den person der har underskrevet og offentliggjort denne EU overensstemmelseserklæring:	Unterschrift [14] Name [15] und Adresse [16] der Person, die für Ausfertigung der EU-Konformitätserklärung verantwortlich ist:	Υπογραφή [14] Όνομα [15] και διεύθυνση [16] του υπαγογράφοντος, που εκδίδει με τη Δήλωση, σύμφωνα με την Οδηγία, DK
Class of 2006/42/EC Annex I	EN EC Declaration of Conformity According to Directives 2006/42/EC & 2014/30/EU	ES Declaración CE de conformidad según las directivas 2006/42/CE y 2014/30/UE	FR EUEE déclaration de conformité selon les directives 2006/42/CE et 2014/30/UE	IT Dichiarazione di conformità EUEE secondo le direttive 2006/42/CE e 2014/30/UE	PT Declaração de Conformidade EUEE de acordo com as Diretivas 2006/42/CE e 2014/30/UE
1.A.1	Wa [1] I declare under our sole responsibility, that the product:	Yo [1] Declaro bajo nuestra única responsabilidad, que el producto:	Moi [1] Je déclare sous notre seule responsabilité, que le produit:	Io [1] Dichiaro sotto la nostra esclusiva responsabilità, che il prodotto:	Nós [1] Declaramos sob a nossa exclusiva responsabilidade, que o produto:
1.A.3	Agricultural machine Commercial Name and model [2] Designation [3] Type (Specify all variants/versions) [4] Number [5] Serial Number [6]	Máquina agrícola Nombre comercial y modelo [2] Designación [3] Tipo (Especificar todas las variantes/versiones) [4] Número [5] Número de serie [6]	Machine agricole Nom commercial et modèle [2] Désignation [3] Type (Spécifier toutes les variantes/versiones) [4] Numéro [5] Numéro de série [6]	Motocoltivatore Descrizione commerciale e modello [2] Designazione [3] Tipo (Specificare tutte le varianti/versioni) [4] Numero [5] Numero di serie [6]	Motocoltivatore Descrizione commerciale e modello [2] Designazione [3] Tipo (Specificare tutte le varianti/versioni) [4] Numero [5] Numero di serie [6]
1.A.4	When this declaration relates, fully all the harmonized provisions of Directives 2006/42/EC & 2014/30/EC, amended by [7]	Al que se refiere la presente declaración, cumple con todas las disposiciones armonizadas de las Directivas 2006/42/CE y 2014/30/UE, modificadas por [7]	En ce qui concerne la présente déclaration, elle satisfait toutes les dispositions harmonisées des directives 2006/42/CE et 2014/30/UE, modifiées par [7]	Per la presente dichiarazione, viene dichiarata la conformità con tutte le disposizioni armonizzate delle Direttive 2006/42/CE e 2014/30/UE, modificate da [7]	Para a presente declaração, está declarada a conformidade com todas as disposições harmonizadas das Diretivas 2006/42/CE e 2014/30/UE, alteradas por [7]
1.A.7	For the implementation of the provisions of the directives, the following harmonized standards have been applied [8]	Con el fin de implementar las disposiciones de dichas directivas, se han aplicado las siguientes normas armonizadas [8]	En vue de l'application des dispositions de ces directives, les normes harmonisées suivantes ont été appliquées [8]	Per la messa in œuvre delle esigenze di tali direttive, le norme armonizzate seguenti sono state applicate [8]	Para a mise em prática das exigências de tais diretivas, as normas harmonizadas seguintes foram aplicadas [8]
1.A.2	Name [9] Position [10] and address [11] of the person authorized to compile the Technical file	Nombre [9] Puesto [10] y dirección [11] de la persona autorizada para elaborar el expediente técnico:	Nom [9] Fonction [10] et adresse [11] de la personne habilitée à rédiger le Dossier Technique:	Nome [9] Posizione [10] e indirizzo [11] della persona autorizzata a compilare il file tecnico:	Nome [9] Cargo [10] e endereço [11] da pessoa autorizada a elaborar o arquivo técnico:
1.A.5	Place [12] and date [13] of the declaration	Lugar [12] y fecha [13] de la declaración:	Lieu [12] et date [13] de la déclaration:	Luogo [12] e data [13] della dichiarazione:	Lugar [12] e data [13] da declaração:
1.A.10	Signature [14] Name [15] and address [16] of the person empowered to draw up the EC Declaration of Conformity	Firma [14] Nombre [15] y puesto [16] de la persona autorizada para redactar la declaración CE de conformidad:	Signature [14] Nom [15] et adresse [16] de la personne habilitée à rédiger la déclaration de conformité CE:	Segno [14] Nome [15] e indirizzo [16] della persona autorizzata a compilare la dichiarazione di conformità CE:	Assinatura [14] Nome [15] e endereço [16] da pessoa autorizada a elaborar a declaração de conformidade CE:

11 - FORMS AND DECLARATIONS

	EU	LT	LV	NL	NO	PL
	DEUTSCHES ÜBERSETZUNGSPROTOKOLL 2004/2005/2006/2007/2008/2009/2010/2011/2012/2013/2014/2015/2016/2017/2018/2019/2020/2021/2022/2023/2024/2025/2026/2027/2028/2029/2030/2031/2032/2033/2034/2035/2036/2037/2038/2039/2040/2041/2042/2043/2044/2045/2046/2047/2048/2049/2050/2051/2052/2053/2054/2055/2056/2057/2058/2059/2060/2061/2062/2063/2064/2065/2066/2067/2068/2069/2070/2071/2072/2073/2074/2075/2076/2077/2078/2079/2080/2081/2082/2083/2084/2085/2086/2087/2088/2089/2090/2091/2092/2093/2094/2095/2096/2097/2098/2099/2100/2101/2102/2103/2104/2105/2106/2107/2108/2109/2110/2111/2112/2113/2114/2115/2116/2117/2118/2119/2120/2121/2122/2123/2124/2125/2126/2127/2128/2129/2130/2131/2132/2133/2134/2135/2136/2137/2138/2139/2140/2141/2142/2143/2144/2145/2146/2147/2148/2149/2150/2151/2152/2153/2154/2155/2156/2157/2158/2159/2160/2161/2162/2163/2164/2165/2166/2167/2168/2169/2170/2171/2172/2173/2174/2175/2176/2177/2178/2179/2180/2181/2182/2183/2184/2185/2186/2187/2188/2189/2190/2191/2192/2193/2194/2195/2196/2197/2198/2199/2200/2201/2202/2203/2204/2205/2206/2207/2208/2209/2210/2211/2212/2213/2214/2215/2216/2217/2218/2219/2220/2221/2222/2223/2224/2225/2226/2227/2228/2229/2230/2231/2232/2233/2234/2235/2236/2237/2238/2239/2240/2241/2242/2243/2244/2245/2246/2247/2248/2249/2250/2251/2252/2253/2254/2255/2256/2257/2258/2259/2260/2261/2262/2263/2264/2265/2266/2267/2268/2269/2270/2271/2272/2273/2274/2275/2276/2277/2278/2279/2280/2281/2282/2283/2284/2285/2286/2287/2288/2289/2290/2291/2292/2293/2294/2295/2296/2297/2298/2299/2300/2301/2302/2303/2304/2305/2306/2307/2308/2309/2310/2311/2312/2313/2314/2315/2316/2317/2318/2319/2320/2321/2322/2323/2324/2325/2326/2327/2328/2329/2330/2331/2332/2333/2334/2335/2336/2337/2338/2339/2340/2341/2342/2343/2344/2345/2346/2347/2348/2349/2350/2351/2352/2353/2354/2355/2356/2357/2358/2359/2360/2361/2362/2363/2364/2365/2366/2367/2368/2369/2370/2371/2372/2373/2374/2375/2376/2377/2378/2379/2380/2381/2382/2383/2384/2385/2386/2387/2388/2389/2390/2391/2392/2393/2394/2395/2396/2397/2398/2399/2400/2401/2402/2403/2404/2405/2406/2407/2408/2409/2410/2411/2412/2413/2414/2415/2416/2417/2418/2419/2420/2421/2422/2423/2424/2425/2426/2427/2428/2429/2430/2431/2432/2433/2434/2435/2436/2437/2438/2439/2440/2441/2442/2443/2444/2445/2446/2447/2448/2449/2450/2451/2452/2453/2454/2455/2456/2457/2458/2459/2460/2461/2462/2463/2464/2465/2466/2467/2468/2469/2470/2471/2472/2473/2474/2475/2476/2477/2478/2479/2480/2481/2482/2483/2484/2485/2486/2487/2488/2489/2490/2491/2492/2493/2494/2495/2496/2497/2498/2499/2500/2501/2502/2503/2504/2505/2506/2507/2508/2509/2510/2511/2512/2513/2514/2515/2516/2517/2518/2519/2520/2521/2522/2523/2524/2525/2526/2527/2528/2529/2530/2531/2532/2533/2534/2535/2536/2537/2538/2539/2540/2541/2542/2543/2544/2545/2546/2547/2548/2549/2550/2551/2552/2553/2554/2555/2556/2557/2558/2559/2560/2561/2562/2563/2564/2565/2566/2567/2568/2569/2570/2571/2572/2573/2574/2575/2576/2577/2578/2579/2580/2581/2582/2583/2584/2585/2586/2587/2588/2589/2590/2591/2592/2593/2594/2595/2596/2597/2598/2599/2600/2601/2602/2603/2604/2605/2606/2607/2608/2609/2610/2611/2612/2613/2614/2615/2616/2617/2618/2619/2620/2621/2622/2623/2624/2625/2626/2627/2628/2629/2630/2631/2632/2633/2634/2635/2636/2637/2638/2639/2640/2641/2642/2643/2644/2645/2646/2647/2648/2649/2650/2651/2652/2653/2654/2655/2656/2657/2658/2659/2660/2661/2662/2663/2664/2665/2666/2667/2668/2669/2670/2671/2672/2673/2674/2675/2676/2677/2678/2679/2680/2681/2682/2683/2684/2685/2686/2687/2688/2689/2690/2691/2692/2693/2694/2695/2696/2697/2698/2699/2700/2701/2702/2703/2704/2705/2706/2707/2708/2709/2710/2711/2712/2713/2714/2715/2716/2717/2718/2719/2720/2721/2722/2723/2724/2725/2726/2727/2728/2729/2730/2731/2732/2733/2734/2735/2736/2737/2738/2739/2740/2741/2742/2743/2744/2745/2746/2747/2748/2749/2750/2751/2752/2753/2754/2755/2756/2757/2758/2759/2760/2761/2762/2763/2764/2765/2766/2767/2768/2769/2770/2771/2772/2773/2774/2775/2776/2777/2778/2779/2780/2781/2782/2783/2784/2785/2786/2787/2788/2789/2790/2791/2792/2793/2794/2795/2796/2797/2798/2799/2800/2801/2802/2803/2804/2805/2806/2807/2808/2809/2810/2811/2812/2813/2814/2815/2816/2817/2818/2819/2820/2821/2822/2823/2824/2825/2826/2827/2828/2829/2830/2831/2832/2833/2834/2835/2836/2837/2838/2839/2840/2841/2842/2843/2844/2845/2846/2847/2848/2849/2850/2851/2852/2853/2854/2855/2856/2857/2858/2859/2860/2861/2862/2863/2864/2865/2866/2867/2868/2869/2870/2871/2872/2873/2874/2875/2876/2877/2878/2879/2880/2881/2882/2883/2884/2885/2886/2887/2888/2889/2890/2891/2892/2893/2894/2895/2896/2897/2898/2899/2900/2901/2902/2903/2904/2905/2906/2907/2908/2909/2910/2911/2912/2913/2914/2915/2916/2917/2918/2919/2920/2921/2922/2923/2924/2925/2926/2927/2928/2929/2930/2931/2932/2933/2934/2935/2936/2937/2938/2939/2940/2941/2942/2943/2944/2945/2946/2947/2948/2949/2950/2951/2952/2953/2954/2955/2956/2957/2958/2959/2960/2961/2962/2963/2964/2965/2966/2967/2968/2969/2970/2971/2972/2973/2974/2975/2976/2977/2978/2979/2980/2981/2982/2983/2984/2985/2986/2987/2988/2989/2990/2991/2992/2993/2994/2995/2996/2997/2998/2999/3000/3001/3002/3003/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For your better and easier understanding of the document, you will find the text reproduced hereafter.

EC/EU Declaration of Conformity
According to Directives 2006/42/EC & 2014/30/EU

We,

declare under our sole responsibility, that the product:

Agricultural machine

Commercial Name KONGSKILDE and Model: ...

Denomination: Tillage

Type (Specify any variant/version): ...

Planning key: ...

Serial Number: ...

to which this declaration relates, fulfills all the relevant provisions of
Directives 2006/42/EC & 2014/30/EU, amended by: -

For the relevant implementation of the provisions of the Directives, the
following (harmonized) standards have been applied:

- EN ISO 4254-1: 2015

Name, position, and address of the authorized person to compile the
Technical Construction File:...

Place and date of the declaration:

Signature, name and position of person empowered to draw up the EC
Declaration of Conformity:

NOTE: Only for United Kingdom.

	Declaration of Conformity of the Machinery according to Supply of Machinery (Safety) Regulations 2008 n.1597 and Electromagnetic Compatibility Regulations 2016 n.1091	[1]
1.A.1	We, [1] declare under our sole responsibility, that the product:	[2] [3] [4] [5] [6]
1.A.3	Agricultural machine Commercial Name and Model: [2] Denomination: [3] Type (Specify any variant/version): [4] Planning key: [5] Serial Number: [6]	[7] [8] [9] [10] [11] [12] [13] [14] [15] [16]
1.A.4	to which this declaration relates, fulfills all the relevant provisions of these Regulations.	[17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40] [41] [42] [43] [44] [45] [46] [47] [48] [49] [50] [51] [52] [53] [54] [55] [56] [57] [58] [59] [60] [61] [62] [63] [64] [65] [66] [67] [68] [69] [70] [71] [72] [73] [74] [75] [76] [77] [78] [79] [80] [81] [82] [83] [84] [85] [86] [87] [88] [89] [90] [91] [92] [93] [94] [95] [96] [97] [98] [99] [100]
1.A.7	For the relevant implementation of the provisions of these Regulations, the following published (designated) standards have been applied: [8]	[101] [102] [103] [104] [105] [106] [107] [108] [109] [110] [111] [112] [113] [114] [115] [116] [117] [118] [119] [120] [121] [122] [123] [124] [125] [126] [127] [128] [129] [130] [131] [132] [133] [134] [135] [136] [137] [138] [139] [140] [141] [142] [143] [144] [145] [146] [147] [148] [149] [150] [151] [152] [153] [154] [155] [156] [157] [158] [159] [160] [161] [162] [163] [164] [165] [166] [167] [168] [169] [170] [171] [172] [173] [174] [175] [176] [177] [178] [179] [180] [181] [182] [183] [184] [185] [186] [187] [188] [189] [190] [191] [192] [193] [194] [195] [196] [197] [198] [199] [200]
1.A.2	Name: [9] Position: [10] and address: [11] of the person authorized to compile the Technical File:	[201] [202] [203] [204] [205] [206] [207] [208] [209] [210] [211] [212] [213] [214] [215] [216] [217] [218] [219] [220] [221] [222] [223] [224] [225] [226] [227] [228] [229] [230] [231] [232] [233] [234] [235] [236] [237] [238] [239] [240] [241] [242] [243] [244] [245] [246] [247] [248] [249] [250] [251] [252] [253] [254] [255] [256] [257] [258] [259] [260] [261] [262] [263] [264] [265] [266] [267] [268] [269] [270] [271] [272] [273] [274] [275] [276] [277] [278] [279] [280] [281] [282] [283] [284] [285] [286] [287] [288] [289] [290] [291] [292] [293] [294] [295] [296] [297] [298] [299] [300]
1.A.9	Place: [12] and date: [13] of the declaration.	[301] [302] [303] [304] [305] [306] [307] [308] [309] [310] [311] [312] [313] [314] [315] [316] [317] [318] [319] [320] [321] [322] [323] [324] [325] [326] [327] [328] [329] [330] [331] [332] [333] [334] [335] [336] [337] [338] [339] [340] [341] [342] [343] [344] [345] [346] [347] [348] [349] [350] [351] [352] [353] [354] [355] [356] [357] [358] [359] [360] [361] [362] [363] [364] [365] [366] [367] [368] [369] [370] [371] [372] [373] [374] [375] [376] [377] [378] [379] [380] [381] [382] [383] [384] [385] [386] [387] [388] [389] [390] [391] [392] [393] [394] [395] [396] [397] [398] [399] [400]
1.A.10	Signature: [14] Name: [15] and position: [16] of the person empowered to draw up the UKCA Declaration of Conformity.	[401] [402] [403] [404] [405] [406] [407] [408] [409] [410] [411] [412] [413] [414] [415] [416] [417] [418] [419] [420] [421] [422] [423] [424] [425] [426] [427] [428] [429] [430] [431] [432] [433] [434] [435] [436] [437] [438] [439] [440] [441] [442] [443] [444] [445] [446] [447] [448] [449] [450] [451] [452] [453] [454] [455] [456] [457] [458] [459] [460] [461] [462] [463] [464] [465] [466] [467] [468] [469] [470] [471] [472] [473] [474] [475] [476] [477] [478] [479] [480] [481] [482] [483] [484] [485] [486] [487] [488] [489] [490] [491] [492] [493] [494] [495] [496] [497] [498] [499] [500]

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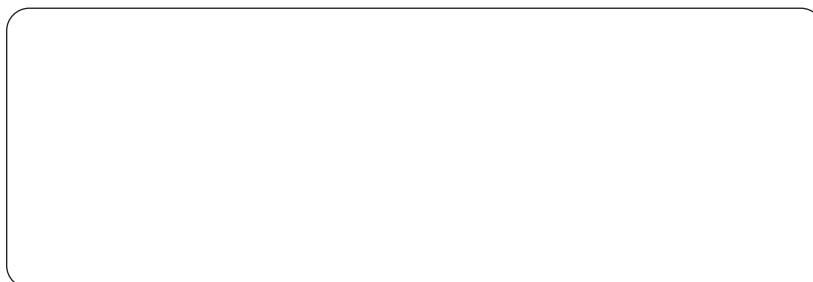
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The manufacturer and its authorized representative reserves the right to make improvements in design and changes in specifications at any time without notice and without incurring any obligation to install them on units previously sold. Specifications, descriptions, and illustrative material herein are as accurate as known at the time of publication, but are subject to change without notice.

Availability of some models and equipment builds varies according to the country in which the equipment is being used. For exact information about any particular product, please consult your Kongskilde dealer.



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