

# **ECOSEM 1500**

Return the warranty certificate within 15 days together with a copy of the invoice (without these documents the warranty procedure cannot be implemented).



### Original Manual

AGRISEM INTERNATIONAL - 535 Rue Pierre Levasseur CS 60263 6 44158 ANCENIS CEDEX Tél : 02 51 14 14 40 6 Fax : 02 40 96 32 36

NOTT-E-613-A 21.02.2015

### **FOREWORD**

This manual is provided with your machine to enable you to make optimum use of your equipment, in particular under safe working conditions.

**All owners** are reminded that the manual is **an essential accessory** which must remain with the machine at all times, and that in the event of resale, article 1615 of the Civil Code requires that as such it **must be handed over** to the new owner.

You are also reminded that as the manual is essential to the machine, all owners must undertake to **leave it physically** available with the machine for all users to consult.





### GUARANTEE RECLAMATION FORM N°

# To be returned on reception of the machine

Dealer	Owner
Name	Nom
Address	Address
1,00,000	
Tel	Tel
Code Nb	
Type of machine	
Working width	
Serial number of the machine	
Delivery date to the user's place (join a copie of invoice and dealer's delivery note)	
Tractor description and horse power	
Type of soil, clay %	
Surface area of farm	
	Date ://
Customer's signature and client's stamp	Dealer's signature and dealer's stamp
•	-

We are fully aware of, and accept, the contents of the instruction manual and we hereby adhere to the clauses of the guarantee.

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# WITH THE "MACHINERY" DIRECTIVE



The manufacturer referred to above certifies that the new equipment described below:

#### **ECOSEM 1500**

Complies with the provisions of the amended "Machinery" directive (Directive 2006/42/CE) and with the applicable national legislation.

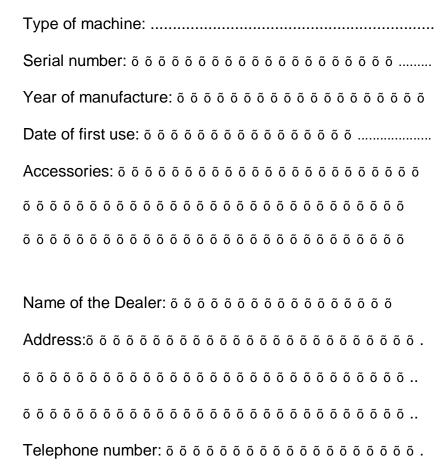
Ancenis,

21 february 2015

Michal Guzowski Chief Executive Officer

# **Identification of the machine**

On receipt of the machine, please enter the corresponding information below:



AGRISEM INTERNATIONAL - 535 Rue Pierre Levasseur CS 60263 . 44158 ANCENIS CEDEX Tél : 02 51 14 14 40 . Fax : 02 40 96 32 36

E-mail: agrisem@agrisem.com

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### 1. INTRODUCTION

The warranty certificate MUST be returned within 15 days of delivery of the machine to the final user.

You have just acquired your AGRISEM machine. It has been designed to give complete satisfaction.

The equipment has been carefully designed using the latest technological solutions to reduce usage costs.

However, for the best and most profitable use of your AGRISEM machine, please read this manual carefully before starting it up and strictly follow the instructions. In particular, follow the instructions for adjusting and servicing the machine, as well as the safety precautions, very carefully.

Please contact our distributor for any information or advice.

The instructions in this user manual must be read and applied by any persons who will be carrying out work on or with the machine, in particular:

- Use of the machine (including preparation, repairs required during work and maintenance).
- Maintenance (servicing and inspection).
- Transport.

AGRISEM INTERNATIONAL cannot be held liable for personal injury or damage to equipment and malfunctions resulting from failure to comply with the instructions given by the manufacturer in this manual.

This user manual is an integral part of the machine and must always be kept with the machine, especially in the event of resale.

AGRISEM INTERNATIONAL is constantly seeking to improve its products and reserves the right to modify or improve its products with no obligation to apply these modifications or improvements to products already on the market.

The instructions in this manual are not exhaustive and cannot cover all eventualities. The user must comply with the applicable legislation, in particular with regard to safety, ensure that the rules of safety and caution dictated by the situation are applied, use common sense and adapt the use of the machine to the circumstances.

It is the Purchasers responsibility to check that the AGRISEM machine complies with the legislation and regulations applicable to its final destination.

#### 2. WARRANTY CONDITIONS

The warranty conditions applicable to machines fitted exclusively with genuine spare parts from AGRISEM INTERNATIONAL, 535 Rue Pierre Levasseur CS 60263. 44158 ANCENIS CEDEX.

#### > DURATION

If a defect is observed on a structural part within a period of 12 months as from the date of
delivery of the machine, and if this defect is due to faulty raw materials, or its manufacture at the
factory. The parts alleged to be faulty must be returned to the Company's address for an expert
inspection.

The following shall be considered to constitute proof of the date of delivery of the equipment:

- The date of the delivery slip and the purchasers invoice.
- The return of the warranty certificate within 15 days (with the dealer's and purchasers stamp and signature) following delivery of the equipment.

#### MACHINES AND PARTS CONCERNED

- For the purposes of this warranty, the term Machine+is exclusively used to designate machines and parts manufactured by AGRISEM INTERNATIONAL. (It does not include external components, in particular tyres, hydraulic hoses, etc. even though these parts are also supplied by the Company)
  - The warranty is void if any modifications have been made to the machine without

the formal agreement of AGRISEM INTERNATIONAL or if parts other than those manufactured by the Company have been fitted (e.g. counterfeit wear parts).

#### > EXTENT OF THE WARRANTY

- The warranty is limited to the reimbursement or repair of parts recognised as faulty with regard to their raw materials or machining, in our factories by our Technical Departments.
- Any costs linked to the dismantling and replacement of the faulty part are not covered by the warranty. The cost of transporting machines or machine parts to the place of repair and their return to their owner is not covered either.
- Wear parts are not covered by the warranty.

#### > PRECONDITIONS

The machine must be maintained and used in accordance with the instructions in this User Manual.

All of the safety measures described in the User Manual and in the manuals of any additional equipment must be complied with.

All of the protection and safety devices and hazardous parts (e.g. shock absorbers) must be regularly inspected and replaced if necessary.

The warranty is only valid if the customer has met the contract's general obligations, in particular the payment conditions.

#### WARRANTY EXCLUSIONS

The warranty does not of course apply to:

- Faults due to normal wear, incorrect use, lack of maintenance, inadequate monitoring or negligence.
- If the machine is damaged by an accident or develops a fault due to being used for purposes other than those specified by AGRISEM.
- In the event of non-compliant use of the machine. Please consult chapter 3 with regard to this point: Compliant use of the machine.
- If the manufacturer's instructions and requirements given in this manual are not complied with, particularly those regarding safety, assembly, use, operation and servicing.
- In the event of improper handling on the part of the user.
- Causes due to the presence of foreign bodies.
- In the event of damage due to the machine being combined with other machines or instruments without the prior written agreement of AGRISEM, and/or without complying with the instructions given by the manufacturers of the tractor and other instruments or machines.
- If the machine is used with protection and safety devices that are incorrectly fitted or not working.
- If the machine has been modified without prior written permission from AGRISEM, or if spare parts, accessories or equipment have been fitted to the machine which were not recommended by AGRISEM.
- In the event of non-compliant repair.
- If faults are due to the machine being immobilised.
- In the event of damage during transport or handling by a carrier. It is the recipientos responsibility to lodge the necessary complaints with the carrier.
- The adverse consequences of the machine being immobilised due to a fault or incident on the machine are not covered by the warranty.
- Personal injury to the owner or a third party and the indirect consequences resulting from this are not covered by the warranty.

Moreover, AGRISEM INTERNATIONAL shall not be liable for the payment of compensation for any reason whatsoever in the event of the loss of crops or any damage whatsoever due to a fault, hidden defect or machine breakdown.

The purchaser is always responsible for the choice of product and the suitability of the machine for the result that he hopes to obtain. He is responsible for its correct use in line with professional practice and the regulations.

Under no circumstances will AGRISEM INTERNATIONAL have any obligation with regard to the final result.

#### > LIMITATIONS AND LIABILITY

- The warranty cannot be assigned or transferred to any other person without the prior written permission of AGRISEM INTERNATIONAL.
- Under no circumstances do those selling our machines have the right or power to make any decision whatsoever, either express or tacit, in the Company's name.
- The technical assistance given by the Company or its representatives with the repairing or operation of equipment does not make it liable for any costs and in no way alters or leads to the waiving of the conditions of this warranty.

# > WARRANTY ENFORCEMENT PROCEDURE: TO BE STRICTLY ADHERED TO BY THE DISTRIBUTOR AND BY THE PURCHASER

The enforcement of the warranty is subject to the dealer and the user meeting the following requirements:

- **A) RETURNING** BY THE DEALER **OF THE WARRANTY CERTIFICATE** DULY COMPLETED AND SIGNED BY THE DEALER AND THE PURCHASER.
- B) Claims must be made without fail using an AGRISEM INTERNATIONAL"WARRANTY CLAIM FORM" (see appendix) and sent by registered letter with acknowledgement of receipt by the dealer to the companys technical department within 10 days of the incident. This form must be completed legibly by the dealer and must include the following information:
  - Name and address of the dealer, code No.,
  - Name and address of the purchaser,
  - Type of machine,
  - Working width,
  - Machine serial number,
  - Date of delivery to the purchaser,
  - Date of breakdown.
  - Precise references of the parts replaced, No. and date of invoice,
  - Make and model of the tractor used.
  - Detailed description and alleged cause of the incident.
  - Surface worked with the Disc-O-Mulch.
  - Utilised agricultural land belonging to the farm,
  - Type of soil in terms of % clay,

<ul> <li>Proof of wear</li> </ul>	part	invoice
-----------------------------------	------	---------

-	Stones	yes	no
-	Parts replaced	yes	no (send the photocopy of the invoice)

- C) Allegedly faulty parts are to be returned by the dealer to the Company's address for an expert inspection, together with the copy of the warranty claim form provided for this purpose. The dealer must order the faulty part from the spare parts department. Any transport costs incurred by the returning of said parts are payable by the sender.
- D) The final decision regarding payment under the terms of the warranty shall be made by **the companys technical or general management**. Whatever the reason for the warranty claim, this decision is final and irrevocable and the purchaser undertakes to accept this decision both with regard to the fault and the replacement of the part or parts.

Under no circumstances are the company's salesmen authorised to make such a decision, which would be void.

NOTE: In the event of refusal, the part remains at the customer disposal for eight days. After this time it will be scrapped with no appeal possible.

Under no circumstances do those selling our machines have the right or power to make any decision whatsoever, either express or tacit, in the Company's name.

#### 5-YEAR WARRANTY AGREEMENT

If the customer subscribes to the 5-year warranty, please see this agreement for the terms and conditions of the warranty's enforcement.

#### **EXCLUSIVE LIABILITY CLAUSE**

AGRISEM INTERNATIONAL denies any liability for damage (and any indirect consequences linked to it) resulting from one or more of the following causes:

- Non-compliant use of the machine.
- Failure to follow the manufacturer's instructions or those given in this manual, particularly those regarding safety, assembly, start-up, use, operation and servicing.
- Unsuitable assembly, start-up, use and maintenance of the machine.
- Use of the machine with faulty protection and safety devices or safety and protection devices that are incorrectly installed or not working.
- Combining of the machine with other instruments or machines without the written agreement of AGRISEM and/or without complying with the instructions given by the manufacturers of the tractor and other instruments or machines.
- Modifications made to the machine without the written permission of AGRISEM.
- Fitting of spare parts, accessories or equipment on the machine which are not genuine or which have not been recommended by AGRISEM.
- Failure to monitor the wear parts on the machine.
- Use of the machine other than for the purposes specified by the manufacturer.
- Non-compliant repair and maintenance.
- Catastrophes resulting from the presence of foreign bodies, unforeseeable circumstances and cases of force majeure.

Moreover, AGRISEM INTERNATIONAL cannot be held liable for injury to the owner or a third party or for the indirect consequences of such an injury, whether or not it results from a fault. You are reminded that a safe distance of 50 metres must be maintained around the machine.

Any claim for compensation for damage that did not occur directly on the machine is excluded.

AGRISEM INTERNATIONAL cannot be held liable for damage caused by driving or use errors.

AGRISEM INTERNATIONAL cannot be held liable for compensation for the consequences of the instrument's immobilisation due to a fault or an incident on the machine.

#### **COMPLIANT USE OF THE MACHINE**

AGRISEM INTERNATIONAL products must only be used for the work for which they were designed:

#### Work on arable land under normal conditions

In the event of damage linked to the use of the machine other than for the purposes specified by the manufacturer, the manufacturer shall be entirely released from liability.

Only use the machine in good technical condition, in accordance with the purpose for which it was designed and in full knowledge of the risks.

Compliant use of the machine also involves:

- Compliance with the instructions for use, servicing and maintenance issued by the manufacturer
- Compliance with all of the instructions in this manual, particularly including the safety instructions
- The exclusive use of genuine spare parts, accessories and equipment or those recommended by the manufacturer.

AGRISEM machines must not be combined with other machines or instruments without prior written permission from AGRISEM INTERNATIONAL.

For any combinations, the user must also comply with the instructions given by the tractor manufacturer.

AGRISEM machines must only be used, serviced and repaired by competent persons who are familiar with the machine's features and operating procedures. These persons must be informed of the dangers to which they may be exposed.

The user is required to strictly comply with the current legislation with regard to:

- Accident prevention
- Safety at work (labour code)
- Driving on the public highway (Highway code)

He is required to observe the warnings affixed to the machine. Any modifications made to the machine by the user or any other person without the prior written permission of the manufacturer releases the latter from any liability for the damage which may result.

Damage resulting from non-compliant use of the machine:

- > Is entirely the user's responsibility,
- May under no circumstances be assumed by AGRISEM INTERNATIONAL

#### SAFETY INSTRUCTIONS

#### Safety instructions

#### Introduction

Most accidents which occur during work, maintenance or travel from one place to another are due to a failure to observe the most basic safety rules. It is therefore essential for anyone likely to be working with this machine to adhere to the basic rules listed below and to the safety instructions displayed on the stickers affixed to the machine.

This machine has been designed for a specific task. It must always be in good working order and must only be repaired using genuine AGRISEM INTERNATIONAL spare parts.

This machine must only be used, maintained and repaired by competent persons who are familiar with its features and its operating procedures and who are aware of the safety rules for accident prevention and the dangers to which they may be exposed.

This machine must only be used in accordance with its purpose and in a condition that does not present any safety risks. Any malfunctions likely to be detrimental to safety must be corrected immediately.

The user is required to strictly adhere to the safety instructions in this manual and the stickers affixed to the machine.

The user is also required to strictly comply with the current legislation with regard to accident prevention, safety at work (labour code), occupational medicine and highway legislation.

Before using the machine for the first time, read all of the safety instructions in this user manual carefully and familiarise yourself with the controls.

The machine must never be entrusted to a person who is not trained to use it.

#### Liability and warranty:

In addition to the other cases mentioned in this manual, the manufacturer denies any liability for any injury or damage to equipment resulting from one or more of the following causes:

- Failure to follow the manufacturer's instructions or those given in this manual, particularly those regarding safety, assembly, start-up, use, operation and servicing.
- Non-compliant use of the machine.
- Unsuitable assembly, start-up, use and maintenance of the machine.
- Use of the machine with faulty protection and safety devices or safety and protection devices that are incorrectly installed or not working.
- Combining of the machine with other instruments or machines without the written agreement of AGRISEM and/or without complying with the instructions given by the manufacturers of the tractor and other instruments or machines.
- Modifications made to the machine without the written permission of AGRISEM.
- Fitting of spare parts, accessories or equipment on the machine which are not genuine or which have not been recommended by AGRISEM.
- Failure to monitor the wear parts on the machine.
- Use of the machine other than for the purposes specified by the manufacturer.
- Non-compliant repair and maintenance.
- Catastrophes resulting from the presence of foreign bodies, unforeseeable circumstances and cases of force majeure.

Similarly, in addition to the other cases mentioned in this manual, any claim under the warranty linked to damage resulting from one or more of the above-mentioned causes is excluded.

Wear close-fitting clothes. Loose clothing may become caught in moving parts.

Wear individual protective equipment corresponding to the work you are planning to do (gloves, shoes, goggles, helmet, ear protection, etc.).

Be aware that tillage equipment, even if not very wide, has very sharp parts (blades, shares, disks, etc.) which can cause serious injury in the event of an accident.

# Whenever the machine is used, check the area around the machine beforehand (presence of children). Ensure you have sufficient visibility.

Before any work, ensure that the tractor is sufficiently weighted at the front to avoid any risk of the front lifting. If not, add weights to the front of the tractor.

Check that screws, nuts and bolts are correctly tightened whenever you use the machine. Tighten if necessary. Also check the condition of the tools and their fastening elements in accordance with the instructions in this manual.

#### No-one must be within 50 metres of the machine when it is being folded and unfolded.

Check that the machine is correctly hitched.

Always install the pins and locking systems.

#### Check that the machine meets personal safety requirements.

Whenever you use the machine, check that the safety and protection devices are in place and working. Replace any worn or damaged protectors immediately.

# Move any people or animals likely to be in the area where the machine is being manoeuvred or used. A 50-metre safety zone must be kept clear around the machine.

Go around the machine looking for any external damage and checking the condition of the protection devices.

Only persons authorised by the owner of the machine and who have been trained and instructed are allowed to work on and with this machine. The operator is responsible towards third parties when he is working on and with the machine.

The owner of the machine must:

- Provide the operator with the user manual.
- Ensure that the operator has read it and understands it.
- Ensure that the operator knows the basic instructions regarding safety at work and accident prevention.

#### Instructions to be followed for hitching and unhitching

Pay attention to the various possibilities permitted for the connecting of the tractors coupling equipment to that of the machine.

Only combine equipment that is compatible (machine and tractor).

Check that the tractor has the characteristics necessary to hitch the machine.

#### **WARNING:**

Non-compliant implementation may result in a risk of the tractor breaking during operation, being insufficiently stable when loaded and having insufficient manoeuvrability and braking power.

Check that the tractor meets the necessary requirements before installing or hitching the machine.

The machine must only be mounted on or hitched to a tractor if it meets the necessary requirements.

Perform a braking test to check that the tractor can provide the regulatory deceleration power even with the machine mounted or hitched.

The requirements relating to the tractor include:

- The total authorised weight
- The authorised axle loads
- The authorised vertical load on the tractor coupling point
- The permissible load capacities of the tyres mounted on the tractor
- Sufficient authorised load on the coupling point

You will find this information on the data plate or in the vehicle's registration papers and in the tractor user manual.

The front axle must support at least 20% of the tractor's empty weight at all times.

 Calculation of the real values of the total tractor weight, tractor axle load and the load capacity of the tyres, and of the minimum ballast required:

The total authorised weight of the tractor indicated in the vehicles registration papers must be greater than the sum of:

- The tractor's empty weight,
- The ballast,
- The total weight of the mounted machine or the vertical load of the hitched machine.

#### This instruction only applies in Germany:

If the axle loads and/or the total authorised weight are not complied with after all the possibilities have been exhausted, the competent authority according to the law of the Land may issue a waiver based on the report of an approved expert in the field of motor vehicle circulation and with the agreement of the manufacturer, in accordance with article 70 of the German law governing the authorisation of vehicles to use the public highway, and the obligatory authorisation under the German highway code.

Combining of machines: do not combine machines that are incompatible or are incompatible with the tractor when combined.

AGRISEM denies any liability in the event of damage resulting from a combination of machines that has not received written authorisation from AGRISEM.

Accidents linked to the breaking of components during operation may result from unauthorised combinations of hitching equipment.

Hitching and ballasting are operations which involve a risk of injury.

#### > Before hitching or unhitching:

- Place the machine on stable ground.
- Chock the machine and take all of the necessary measures to avoid the accidental movement of the tractor.

The machine must only be coupled using the coupling points provided for this purpose and in accordance with the applicable rules.

When hitching, do not exceed:

- The tractor's total authorised weight
- The tractor's authorised axle loads
- The permissible load capacities of the tyres mounted on the tractor.



No one must be standing between the tractor wheels and the tool when hitching or unhitching.

Instructions to be followed before using the machine

#### **WARNING**

A failure to take movement or operating safety measures may result in accidents involving crushing, cuts, entanglement, pinching or impacts.

Before start-up, check that the machine and the tractor are able to move and operate in complete safety.

Never climb onto the machine or stand on it when it is moving.

Never work in reverse.

Never allow children to climb on the tractor or the machine, or to play near the equipment, even if the machine is stopped.

When using or manoeuvring the machine ensure that no-one is within the manoeuvring or working area.

The elements of the machine that are controlled by an external force have crushing and shearing zones. Keep away from these hazardous areas.

Be aware of hidden obstacles (stones, roots, pipes, cables, etc.) in the event of a collision with an obstacle.



In such an event you must stop the drive, stop the tractor engine, remove the ignition key and wait for the machine to stop completely.

Before starting work again, check the machine for any damage.

If the obstacle is an electric cable or gas pipe, inform the appropriate authorities.

When using the machine, stones or other foreign bodies are likely to be thrown a considerable distance.

Move any people or animals likely to be in the danger area around the machine.

Do not stand in the machine's working area or in the area where the machine rotates and pivots.

Each time the machine is used, carry out a careful visual inspection of the machine to detect any external damage and ensure that the safety and protection devices are operating correctly. Also carry out regular inspections of the various adjustments.



Do not approach the machine until all of the moving parts are completely immobile. Enforce a 50-metre safety area around the machine.

#### With regard to driving:

Adapt your driving to ensure that you are in control of the tractor with the machine mounted or hitched under all circumstances.

Take into account your personal faculties, the conditions of the land or road, the traffic, the visibility and the weather, the tractor driving characteristics and the conditions of use when the machine is mounted or hitched.

Ensure that the rules of safety and caution dictated by each situation are applied.

The speed and driving style must always be appropriate to the land, roads and tracks.

Reduce your speed on uneven ground or tight corners.

On bends, take into account the overhang and the inertia of the mounted tool.

Avoid sudden changes of direction at all times.

Do not leave the driver's seat until the equipment has completely stopped, the engine is off and the parking brake is on.

Do not transport any people or animals on the machine and the additional tools during work or transport.

#### When driving on the public highway:

Comply with the highway code applicable in your country.



Before going out onto the public highway, check the width of the machine and unbolt or remove elements that exceed the regulatory width.

Take into account the widths authorised for transport and the transported height depending on the hitched machine, in line with current legislation.

Before setting off on the road, ensure that the hitched machine is fitted with the lighting and signalling devices required by the highway code and any other devices required by the current regulations.

AGRISEM rear signalling lights and panels may be removed when working. Check that this signalling equipment has been correctly refitted.

Check that the equipment is clean and operating correctly. Replace all missing or damaged equipment.

Before travelling on the road, secure all of the machine's pivoting parts in their transport position to avoid dangerous changes of position. Also check that the screws, nuts and bolts are tightened and that all of the machine parts are correctly attached and cannot move or become detached.

If your machine is a folding machine, the locking system must be engaged.

Follow the instructions in this manual on how to prepare the machine for transport.

If necessary, also check:

- The connection of the supply pipes;
- The braking system and the hydraulic circuit.

If the equipment does not already have them, fit signalling devices: lighting board, reflectors, reflective plates or adhesive strips.

Ensure that the machine or additional equipment does not hide the tractors lights.

Ensure that the tractor tyres are inflated to the correct pressure.

Ensure that the tractor and additional equipment is correctly balanced.

Install ballast at the front and back to ensure that the brakes and steering are effective.

The tractor's front axle must systematically support at least 20% of the tractor's empty weight to guarantee sufficient manoeuvrability.

Never drive at more than 25km/hour when under load.

Clean off any soil stuck to the machine before going out onto the road.

After using the public highway, ensure that the road is cleaned of any mud left by the tractor and tools.

The driver/owner has sole responsibility when transporting the machine on the public highway.

Instructions to be followed before carrying out any operations on the machine

In particular during cleaning, servicing and repairs.

Comply with the instructions in this manual regarding the servicing of the machine.

Before carrying out any operations on the machine:

- Ensure that the machine is on stable ground.
- Stop the tractor engine, remove the ignition key, wait for all of the moving parts to stop and engage the hand brake.
- Set the machine on the ground, depressurise the hydraulic circuit and allow the machine to cool down.
- Secure the machine or elements that are in a raised position to avoid any accidental lowering.
- Chock the machine.

If using a high-pressure washer or steam cleaner, it is essential to comply with the following points:

Do not clean the electrical and hydraulic components.

Never direct the high-pressure washer or steam cleaner nozzle directly at the lubrication points or bearings.

Systematically keep the nozzle a reasonable distance from the machine.

Comply with the rules for using high-pressure washers.

Wear appropriate personal protective equipment for the work to be performed. In particular, wear safety shoes and gloves to handle sharp parts.

#### Take all of the necessary precautions when fitting working parts that are both heavy and sharp.

The machine must only be serviced and repaired by competent persons who are familiar with the machine's features and operating procedures.

#### The machine must only be repaired with genuine AGRISEM International spare parts.

For bare metal parts, use either an anti-rust product that leaves a greasy film or thick grease.

According to the type of machine: before carrying out any work on the electrical circuit or before any welding operations, disconnect the wiring harnesses coming from the tractor. Disconnect the battery and alternator cables.

#### Do not weld or use blow torches near pressurised fluids or inflammable products.

#### Instructions regarding installation

The machine may be fitted with electronic components and elements which may be affected by electromagnetic emissions from other devices. This type of interference may be a source of danger for people if the following safety instructions are not followed:

- ➤ If devices and/or electrical components are installed on the machine and connected to the on-board electrical circuit at a later date, the user must first check that installing these components will not interfere with the vehicle's electronics or other components.
- ➤ Ensure that electrical and electronic components subsequently installed comply with the current version of electromagnetic compatibility directive 2004/108/CEE and that they have a CE marking.

Before carrying out any operations on the electrical system, disconnect the battery's negative terminal.

Only use the recommended fuses. Using fuses which have too high an amperage may damage the electrical system and create a risk of fire.

Ensure that the battery terminals are correctly connected, starting with the positive terminal and then the negative terminal. When disconnecting the terminals, start with the negative terminal and then disconnect the positive terminal.

Systematically fit the cover provided for this purpose on the battery's positive terminal. Be aware of the risk of explosion when earthing.

#### Risk of explosion: avoid sparks and naked flames near the battery.

#### Instructions regarding the hydraulic system

If your machine is fitted with a hydraulic circuit, you must comply with the following instructions:

#### Warning! The hydraulic circuit is pressurised.

When mounting cylinders and hydraulic devices, take particular care to ensure that the circuits are correctly connected, in accordance with the manufacturer's instructions.

Mark the sockets and connectors of the hydraulic connections between the tractor and the machine to avoid handling errors.

Before connecting a hose to the tractor's hydraulic circuit, ensure that the circuits on both the tractor side and the machine side are perfectly clean and not under pressure.

Before connecting, check that the hydraulic quick connectors on the machine and the tractor are free from impurities.

Before performing any operations on the hydraulic circuit, lower the machine, depressurise the circuit, switch off the tractor engine, engage the parking brake and remove the ignition key.

Before carrying out any operations, allow the machine to cool down and discharge the hydraulic circuits' accumulators.

Check the hydraulic hoses regularly. Damaged or worn hoses must be replaced immediately. Check the appearance of the hydraulic hoses to detect any signs of tears or abnormal wear.

When replacing hydraulic hoses, ensure that you only use hoses of the characteristics and quality recommended by the machine's manufacturer.

Each time the machine is used, the hydraulic quick connectors' end fittings must be cleaned and the protective caps must be fitted afterwards. Replace connectors which do not lock correctly or which leak.

Hydraulic hoses must never trail on the ground.

If you find a leak, take all of the necessary precautions to avoid accidents. Never try to plug the leak with your hand or fingers.

Any pressurised liquid, in particular oil in the hydraulic circuit, can penetrate the skin and cause serious injury and infections.

In the event of injury, consult a doctor immediately.

To avoid accidents caused by unexpected hydraulic movements or by third parties, the distributors on the tractor must be locked or immobilised when they are not being used or in their transport position.

Instructions relating to the braking system

The braking system must be checked and serviced regularly. Servicing and repair work and adjustments must only be carried out by brake system specialists.

Stop the tractor immediately in the event of a brake system malfunction and have it repaired.

Before performing any operations on the braking system, place the machine on stable ground and chock it.

After any adjustment or repair work on the braking system, perform a braking test.

#### Instructions specific to AGRISEM seeders

In addition to the instructions applicable to all of machines, AGRISEM seeder users must comply with the following instructions:

Never climb onto the machine elsewhere than on the AGRISEM walkway provided for this purpose.

Only climb onto the machine when it is stopped.

When operations are performed on the AGRISEM seeder or during flow tests, the seeder must be stationary and a 50-metre safety area must be enforced around it. The hydraulic system must be depressurised (e.g. turbine stopped) and the rear window of the tractor must be shut, the tractor switched off and the ignition keys removed.

Ensure that no one is on or near the seeder when the grain is being loaded. The AGRISEM walkway must only be used when the seeder is stationary.

Always ensure that the entire area within the seeder's dimensions is completely clear.

Never stand under the sun wheel when it is in its transport position.

When testing the distribution flow, the user must turn the sun wheel with care to avoid any injury. When the wheel is rotating, no-one must be within 50 metres of the machine. This means that no-one must put their fingers into the distribution grooves unless the transmission system is completely stopped.

When changing the transmission gear ratios, ensure that the gearing and chain are handled with the greatest care to avoid any injury. No-one must be within 50 metres of the machine. Avoid putting yourself in danger when changing the gearing by avoiding climbing on the machine's beams or disks, as this could be dangerous.

Ensure that the sun wheel is protected during transport to avoid it hitting anything or injuring anyone.

Similarly, when the turbine is started up, a safety area must be enforced around the machine due to the risk of objects or liquids being ejected (e.g. soil, oil, stones, metal, etc.).

When travelling on the public highway, always be very careful and alert. As the rear visibility is reduced during transport, ensure that the way is clear before reversing the machine (50-metre safety area).

The user must comply with the highway regulations applicable in his country with regard to the front hopper.

If the tractors signalling equipment is not sufficient (or not sufficiently visible) ensure that you fit your front hopper with lighting and signalling plates.



When working, a 50-metre safety area must be enforced due to the risk of objects being ejected.

#### Instructions relating to safety systems with spring assemblies

Safety devices with pre-compressed spring assemblies are fitted on many AGRISEM tools. These can be very dangerous when performing technical operations on the machine if all of the necessary precautions are not taken.

WARNING: Written authorisation must be obtained from AGRISEM International before carrying out any operations on the "Spring Assembly".

Instructions relating to transmission shafts with universal joints

Consult the tractor manufacturers instructions when performing any operations on transmission shafts with universal joints.

#### Instructions relating to loading and transport

Unless there is a specific transport agreement:

- For deliveries of less than three tonnes: the carrier is responsible for the loading, chocking, securing and unloading of the equipment from when he takes charge of it until its delivery.
- For deliveries of more than three tonnes: loading, chocking and securing on the one hand, and unloading on the other hand, are the responsibility of the contracting party or the recipient respectively. The responsibility for any equipment damage that occurs during these operations lies with the person carrying them out.

Unless there is a specific transport agreement, and for deliveries of more than 3 tonnes, the Purchaser will therefore unload the machine under his own responsibility.

Similarly, if the Purchaser sells the machine and has it delivered, as the sender, he will be responsible for the loading, chocking and securing of the equipment when it is sent.

In case of doubt regarding the unloading or loading, chocking and securing of the machine, please contact AGRISEM International.

#### The user's workstation

The machine must be operated by one person only, from the tractor driver's seat.

#### Noise data

The sound pressure level is 77 dB(A), as measured at the level of the user's ear during operation with the cab closed.

The sound pressure level mainly depends on the tractor used.

Measuring device: NICETY SL801A.

#### Safety symbols on the machine

#### **ETIQ-501**



Keep a safe distance from the machine during work. Risk of serious injury. Ensure that no-one is in the danger zone around the machine when the tractor engine is running.

#### **ETIQ-502**



Keep a safe distance from the machine when lowering it. Risk of serious injury. Ensure that no-one is under the machine when lowering it.

#### **ETIQ-503**



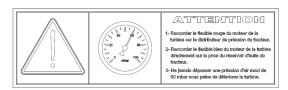
Beware of pinching. Risk of serious injury.

Do not touch the hazardous areas under any circumstances while the tractor engine is running and the universal joint shaft, hydraulic circuit or electronic system is operating.

#### **ETIQ-504**



Keep a safe distance from the rear of the tractor during manoeuvres. Risk of serious injury.



Warning: never exceed a maximum air pressure of 60 mbar as this may damage the turbine.

#### **ETIQ-908**



Read the maintenance book and safety instructions before starting up the machine and abide by them during operation.

### 3. LIST OF PARTS ECOSEM 1500

Drawings presented in the catalog of parts indicate the sequence of assembly and disassembly of separate parts of the unit.

In order to determine the number of a given part, check the number of this part in the drawing. Under this number in the text table, you will find the name of the part and its drawing number.

When ordering spare parts, you need to give the name of the part, its drawing number, the number of the machine and the year of its production.

The number of the machine and its year of production can be found on the manufacturer's plate located on the machine.

#### Technical changes may be introduced without any earlier notification.



1. SEEDER 4m 3052 21-00-00-000 1

Table to fig. 1

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	3052_21-01-00-000_1	Welded frame	1	
2	7.50-20	Tire	2	
3	3052_21-02-00-000	Body set	1	Table 3
4	3052_21-07-00-000	Drawbar set	1	Table 2
5	3078_01-08-00-000_2	Left hub set	1	Table 13
6	3052_21-08-00-000	Seeder power feed	1	Table 15
7	Rim 20	Rim 20	2	
8	3052_21-05-00-000	Coulter bar set	1	Table 22
9	3052_21-06-00-000	Platform with firmer	1	Table 14
10	3052_21-16-00-000	Markers set	1	Table 19
11	3052_21-11-00-000	Rippers set	1	Table 20
12	3052_21-00-00-001	Loading lug	2	
13	3052_21-00-00-002	Loading lug 1	2	

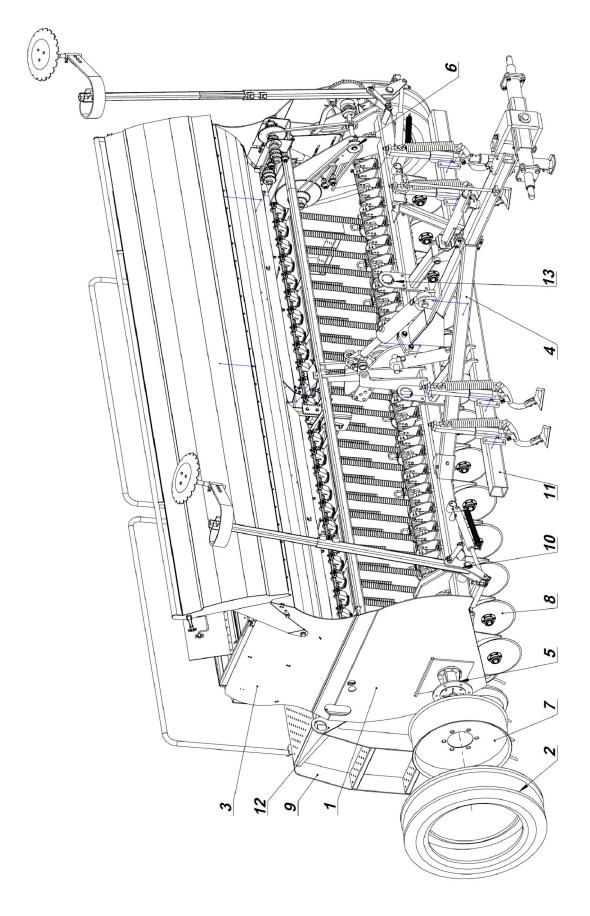


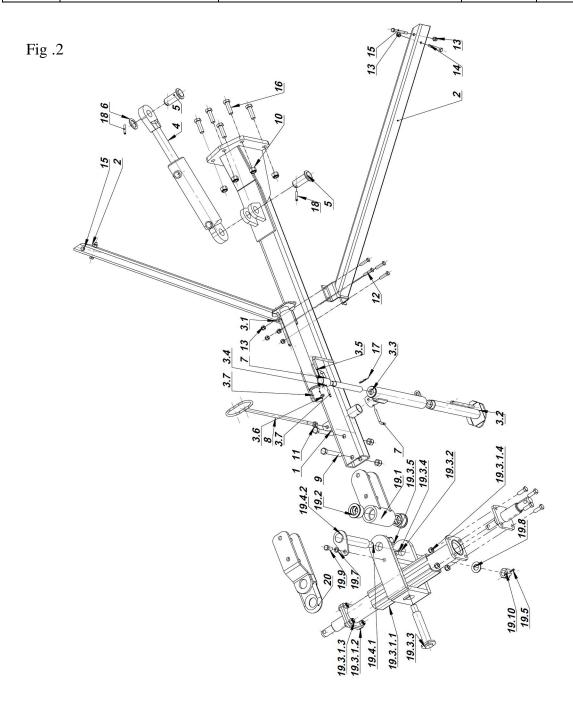
Fig. 2

### 2. Drawbar set 3052\_21-07-00-000

Table to fig. 2

	Table to fig. 2					
item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks		
1	3052_21-07-01-000	Welded drawbar	1			
2	3052_21-07-02-000	Welded guy rod	2			
3	3052_21-07-03-000	Support set	2			
3.1	3052_21-07-03-100	Welded upper tube	1			
3.2	3052_21-07-03-200	Welded lower tube	1			
3.3	1772_00-01-200	Welded screw	1			
3.4	3052_21-07-03-001	Handwheel	1			
3.5	SC03_06-01-004	Pin	1			
3.6	PN-89_M-85023	Spring-type straight pin 4x20	2			
3.7	PN-89_M-85023	Spring-type straight pin 8x20	1			
4	CJ2F-16- 80_45_200z+UE2	Hydraulic piston cylinder	1			
5	3052_21-07-00-100	Welded cylinder bolt	2			
6	3052_21-07-00-102	Washer 40,5x60x4	1			
7	3043_00-00-009	Plug	2			
8	1655_00-150_0	Welded cable holder set	1			
9	PN-85_M-82105	Screw M20x140-8.8-B-Fe_Zn5	2			
10	PN-85_M-82175	Self-locking nut M20-8-B-Fe_Zn5	7			
11	PN-86_M-82144	Nut M16-8-B-Fe/Zn5	2			
12	PN-85_M-82105	Screw M12x50-8.8-B-Fe_Zn5	4			
13	PN-85_M-82175	Self-locking nut M12-8-B-Fe_Zn5	8			
14	PN-85_M-82101	Screw M12x80-8.8-B-Fe_Zn5	2			
15	PN-85_M-82101	Screw M12x120-8.8-B-Fe_Zn5	2			
16	PN-85_M-82105	Screw M20x65-8.8-B-Fe_Zn5	5			
17	BN-81_1902-04	Spring-type cotter pin b48	2			
18	PN-89_M-85023	Spring-type straight pin 10x60	2			
19	3052_21-07-04-000	Drawbar connector set	1			
19.1	3052_21-07-04-100	Welded drawbar grip	1			
19.2	1655_00-015_0	Bearing sleeve n75/66/45x45	2			
19.3	1674_13-000_0	Suspension axis with connector n28/n36/825/965 set	1			
19.3.1	1674_13-100_0	Suspension axis n28/n36/825/965 set	1			
19.3.1.1	1674_13-110_0	Welded suspension axis set	1			
19.3.1.2	1674_13-120_0	Welded two-sided pin	2			
19.3.1.3	PN-85_M-82105	Screw M16x45-8.8-B-Fe_Zn5	8			
19.3.1.4	PN-85_M-82175	Self-locking nut M16-8-B-Fe_Zn5	8			
19.3.2	1674_13-200_0	Welded connector set A	1			
			•	•		

19.3.3	1674_13-300_0	Welded connector bolt set A	1	
19.3.4	PN-78_M-82005	Washer	1	
19.3.5	PN-85_M-82175	Self-locking nut M30-8-B-Fe_Z5	1	
19.4	1674_00-250_0	Welded connector bolt set	1	
19.4.1	1674_00-251_0	Bolt 45x290	1	
19.4.2	1674_00-252_0	Bolt stopper	1	
19.5	PN-76_M-82001	Cotter pin S-5x63-Fe_Zn5	1	
19.6	PN-76_M-86002	Grease nipple	1	
19.7	PN-77_M-82008	Spring washer Z16.3-Fe_Zn5	1	
19.8	PN-78_M-82005	Washer	1	
19.9	PN-85_M-82105	Screw M16x40-8.8-B-Fe_Zn5	1	
19.1	PN-86_M-82148	Castellated nut ZM30-8-B-Fe_Zn5	1	
20	3052_21-07-00-200	Welded connector	1	



### 3. BODY SET 3052\_21-02-00-000

Table to fig. 3

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	3052_21-02-00-001	Rear plate 1	1	
2	3052_21-02-00-003	Bottom plate	1	
3	SP08_01-00-000	Sowing apparatus	26	Table 4
4	3052_21-02-00-004	Grip	2	
5	3052_21-02-08-000	Left cable rack set	1	Table 5
6	3052_21-02-09-000	Right cable rack set	1	Table 6
7	3052_21-02-00-007	Bottom shaft	2	
8	3052_21-02-00-017	Sowing shaft	1	
9	SP08_00-00-300	Bottom handle	2	
10	3052_21-02-12-000	Lid 4m set	1	Table 7
11	3052_21-02-00-006	Barrier	1	
12	3052_21-02-06-000	Mixing apparatus set	1	Table 8
13	3052_21-02-00-100	Welded wheel	1	
14	NOF3_00-00-009	Mounting T205	4	
15	D205	Ball bearing PN-73/M-86120	2	
16	3052_21-02-00-008	Barrier	1	
17	3052_21-02-00-009	Angle	4	
18	3052_21-02-00-010	Left barrier	1	
19	3052_21-02-00-011	Long angle	12	
20	3052_21-02-00-012	Left barrier	1	
21	3052_21-02-00-013	Middle barrier	1	
22	3045_40-00-023_1	Retaining ring of indicator rod	1	
23	3045_40-28-001_2	Indicator float	1	
24	3078_52-00-100	Seed level indicator	1	
25	3078_52-00-001	Retaining ring support	1	
26	3052_21-02-02-000	Sowing adjustment	1	Table 9
27	3052_21-02-08-001_1	Rack	1	
28	3052_21-02-00-400	Right measurement gutter set	1	
29	3052_21-02-00-016	Gutter support	4	
30	3052_21-02-00-300	Left measurement gutter set	1	
31	3052_21-02-07-000	Fertilizer sowing apparatus	1	Table 10
32	3052_21-02-00-018	Shaft sleeve	1	
33	3078_05-00-002	Gutter hanger	2	
34	3052_21-02-01-016	Support pin	1	
35	3052_21-02-11-000	Screen set	1	Table 12
36	3052_21-02-11-100	Welded retaining ring	1	
37	3052_21-02-12-001	Lid fixing ring	2	

38	3052_21-02-12-002	Lid screw	1	
39	3052_21-02-12-003	Lid sleeve	1	
40	3052_21-02-00-020	Middle mesh	1	
41	3052_21-02-00-019	Side mesh	2	
42	3052_21-02-00-500	Welded mixer side guard	2	
43	SC02_02-03-001	Mixer guard clamp	6	
44	3052_21-02-00-600	Welded mixer middle guard	1	
45	3052_21-17-00-000	Tramline system	1	Table 11
46	3052_21-02-13-000	Chute set	1	
47	PN-78_M-82005	Washer 21 Fe_Zn5	1	
48	3052_21-02-01-000	Welded body	1	

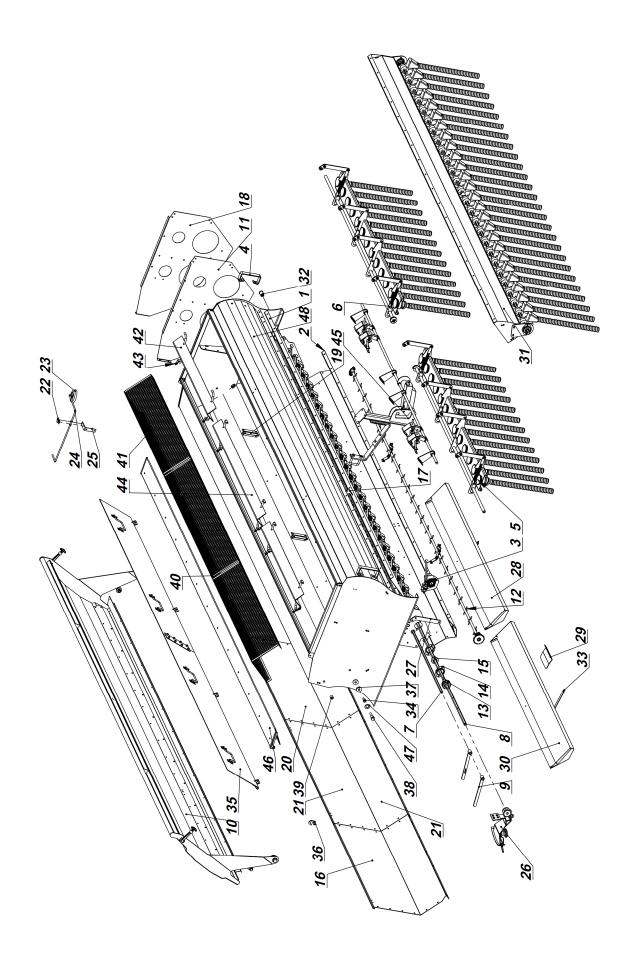
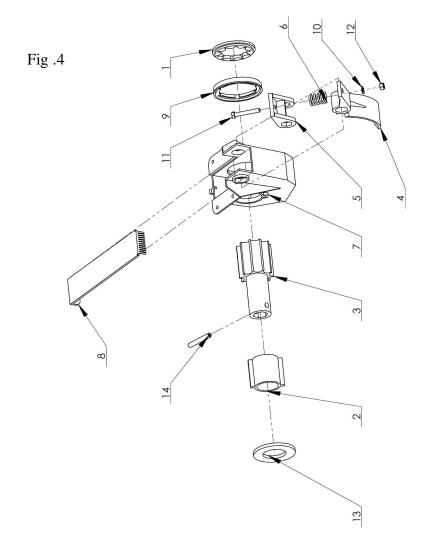


Fig.3

## 4. SOWING APPARATUS SP08\_01-00-000

Table to Fig.4

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	125054	Toothed ring	1	
2	125059	Drum	1	
3	125062	Sowing wheel	1	
4	4125070	Adjustable bottom	1	
5	125072	Fork of adjustable bottom	1	
6	125073	Spring of adjustable bottom	1	
7	SP08_01-00-001	Apparatus jacket	1	
8	SP08_01-00002	Shutter	1	
9	SP08_01-00-003	Distance ring	1	
10	PN-78_M-82005	Washer 5.3 Fe_Zn5	1	
11	PN-85_M-82105	Screw M5x35 8.8. Fe/Zn5	1	
12	PN-86_M-82144	Washer M5-8-B-Fe_Zn5	1	
13	PN-78_M-82005	Washer 31-Fe_Zn5	1	
14	PN-89_M-85023	Spring-type straight pin 6x40	1	



# 5. LEFT CABLE RACK SET 3052\_21-02-08-000

Table to fig. 5

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	3052_21-02-08-100	Welded left cable rack	1	
2	3078_05-07-001_1	Upper connector	13	
3	3078_05-00-801_1	Upper short tube	13	
4	3052_21-02-08-005	Hose	13	
5	3052_21-02-08-001_1	Rack	4	
6	3052_21-02-08-002	Hanger tube	1	
7	3061_00-00-00-024	Coulter spring	2	
8	3052_21-02-08-003	Spring grip	2	
9	3052_21-02-08-004	Tube grip	2	
10	3052_21-02-08-006	Washer	2	
11	PN-89_M-85023	Spring-type straight pin 6x40	2	
12	PN-89_M-85023	Spring-type straight pin 4x20	4	
13	PN-85_M-82105	Screw M10x25-8.8-B-Fe_Zn5	8	
14	PN-85_M-82175	Self-locking nut M10-8-B- Fe_Zn5	8	

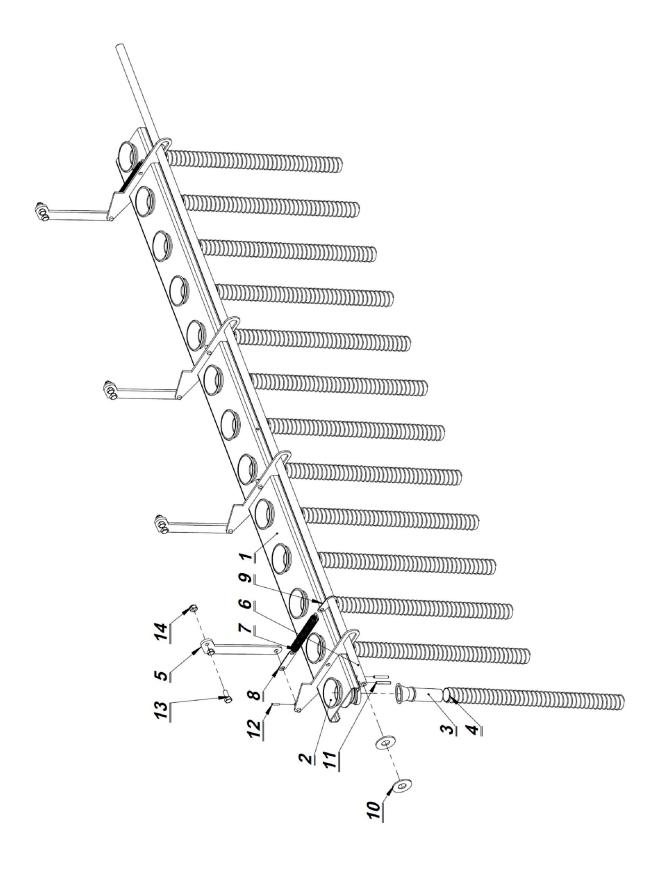


Fig.5

## **6. RIGHT CABLE RACK SET 3052\_21-02-09-000**

Fig. no. or standard	Name of part (set)	Quantity	Remarks
3052_21-02-09-100	Welded right cable rack	1	
3078_05-07-001_1	Upper connector	13	
3078_05-00-801_1	Upper short tube	13	
3052_21-02-08-005	Hose	13	
3052_21-02-08-001_1	Rack	4	
3052_21-02-08-002	Hanger tube	1	
3061_00-00-00-024	Coulter spring	2	
3052_21-02-08-003	Spring grip	2	
3052_21-02-08-004	Tube grip	2	
PN-89_M-85023	Spring-type straight pin 6x40	2	
PN-89_M-85023	Spring-type straight pin 4x20	4	
3052_21-02-08-006	Washer	2	
PN-85_M-82105	Screw M10x25-8.8-B-Fe_Zn5	8	
PN-85_M-82175	Self-locking nut M10-8-B-Fe_Zn5	8	

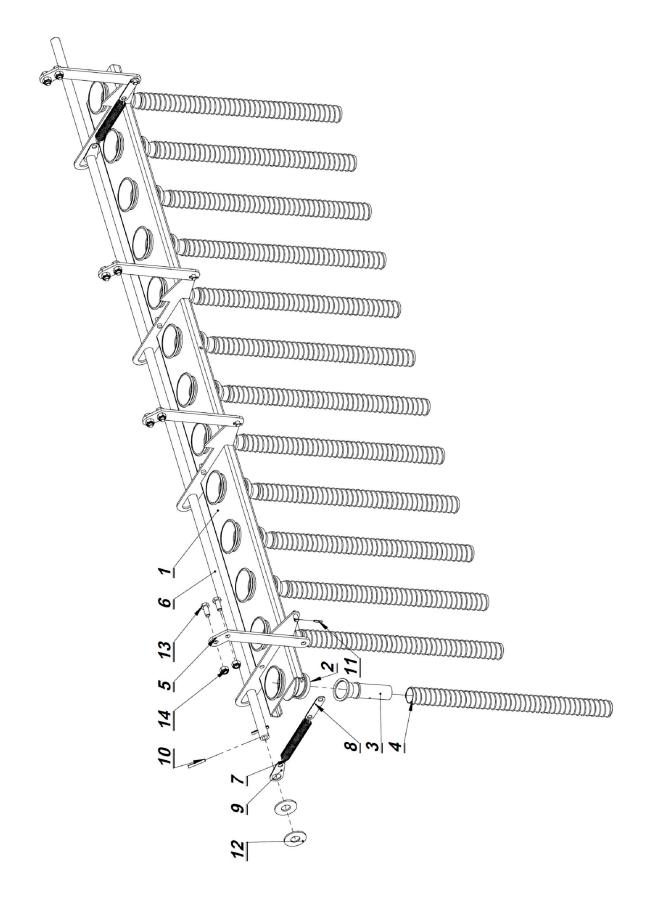
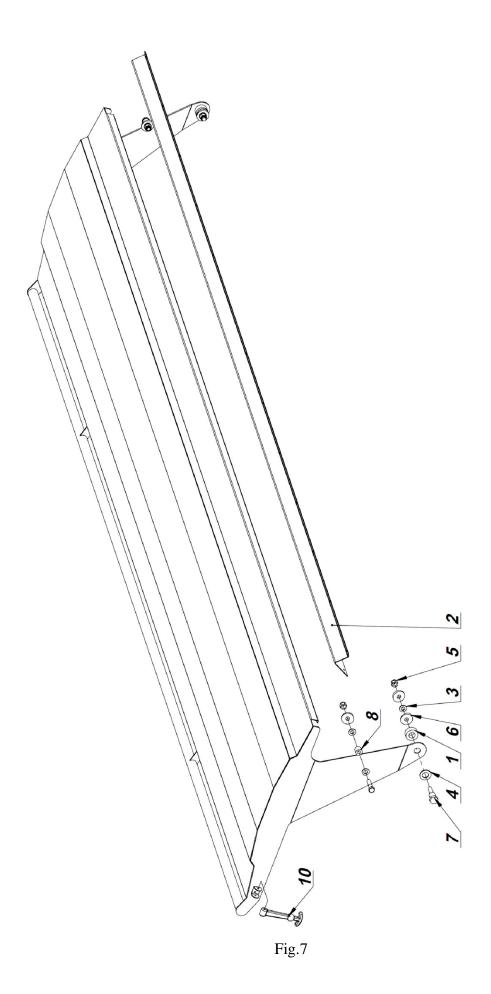


Fig. 6

## 7. LID 4m SET 3052\_21-02-12-000

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	3052_21-02-12-100	Welded lid 4m	1	
2	3052_21-02-13-003	Reinforcement	1	
3	PN-78_M-82005	Washer 13 Fe_Zn5	6	
4	PN-78_M-82005	Washer 21 Fe_Zn5	2	
5	PN-85_M-82175	Self-locking nut M12-8-B-Fe_Zn5	4	
6	3052_21-02-12-001	Lid fixing ring	6	
7	3052_21-02-12-002	Lid screw	2	
8	3052_21-02-12-003	Lid sleeve	2	
9	PN-85_M-82101	Screw M12x50-8.8-B-Fe_Zn5	2	
10	TC 120_TC125	Rubber grip set	2	



## 8. MIXING APPARATUS 3052\_21-02-06-000

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	3056_00-00-001	Mixer bearing	2	
2	3023_00-00-013	Special washer	3	
3	3052_21-02-06-100	Welded mixer shaft	1	
4	3052_21-02-06-200	Chain wheel z 20	1	
5	3052_21-02-06-001	Mixer retaining ring	2	
6	3052_21-02-06-002	Retainer clamp	2	
7	PN-85_M-82105	Screw M6x16-8.8-B-Fe_Zn5	8	
8	PN-85_M-82105	Screw M8x25-8.8-B-Fe_Zn5	4	
9	PN-78_M-82005	Washer 6.4 Fe_Zn5	8	
10	PN-78_M-82005	Washer 8.4 Fe_Zn5	4	
11	PN-85_M-82175	Self-locking nut M6-8-B-Fe_Zn5	8	
12	PN-85_M-82175	Self-locking nut M8-8-B-Fe_Zn5	4	
13	PN-89_M-85023	Spring-type straight pin 6x30	2	
14	PN-76_M-86002	Lubricating nipple M8	2	

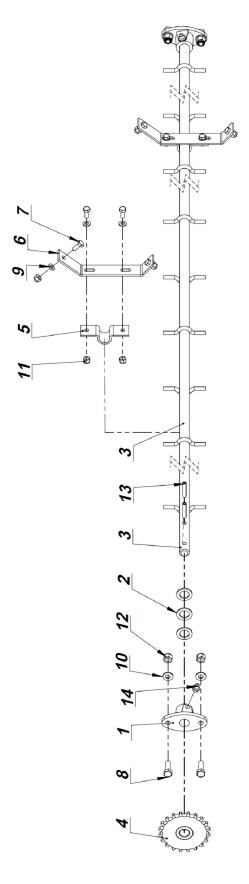


Fig.8

# 9. SOWING ADJUSTMENT SET 3052\_21-02-02-000

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	3052_21-02-02-200	Welded scale base	1	
2	3052_21-02-02-100	Welded handle	1	
3	3052_21-02-02-001	Roller	1	
4	3052_21-02-02-002	Washer	1	
5	3052_21-02-02-003	Scale	1	
6	3052_21-02-02-004	Clamp	1	
7	6000 2RS	Ball bearing	1	
8	PN-81_M-85111z	Circlip Z 10	1	
9	3045_03-00-800	Handwheel	1	
10	PN-87_M-82406	Screw ZM12x30-8.8-Fe_Zn5	1	
11	PN-78_M-82005	Washer 13 Fe_Zn5	1	
12	PN-78_M-82005	Washer 8.4 Fe_Zn5	2	
13	PN-89_M-85023	Spring-type straight pin 4x24	1	
14	PN-85_M-82175	Self-locking nut M8-8-B-Fe_Zn5	6	
15	PN-85_M-82105	Screw M8x20-8.8-B-Fe_Zn5	6	
16	3052_21-02-02-005	Clamp	1	

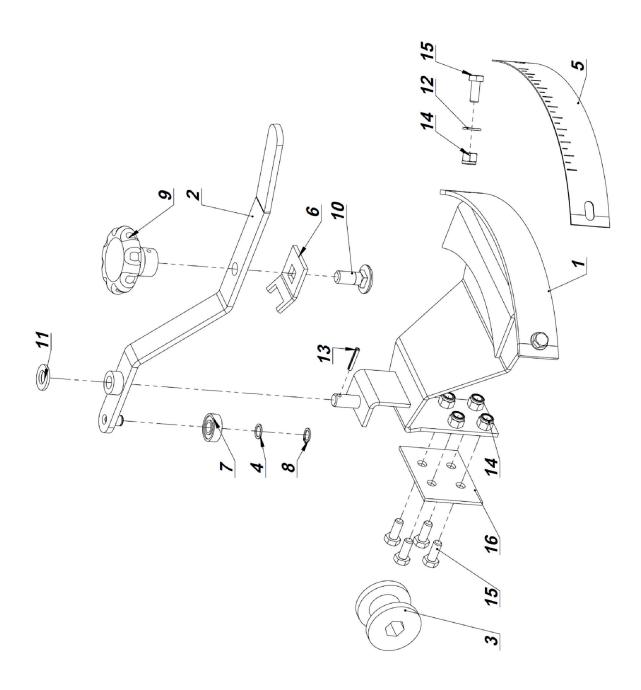


Fig. 9

# 10. FERTILIZER SOWING APPARATUS 3052\_21-02-07-000

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	3052_21-02-07-100	Welded lower plate	1	
2	3052_21-02-07-001	Bearing support	2	
3	3052_21-02-07-002	Fertilizer sowing shaft	2	
4	Fertilizer sowing apparatus	Sowing apparatus	26	
5	OMEGA6_03-00-003	Jointing sleeve	1	
6	NOF3_00-00-009	Mounting T205	4	
7	D205	Ball bearing PN-73/M-86120	2	
8	OMEGA4_03-00-005	Bearing sleeve	2	
9	3052_21-02-07-003	Hose	26	

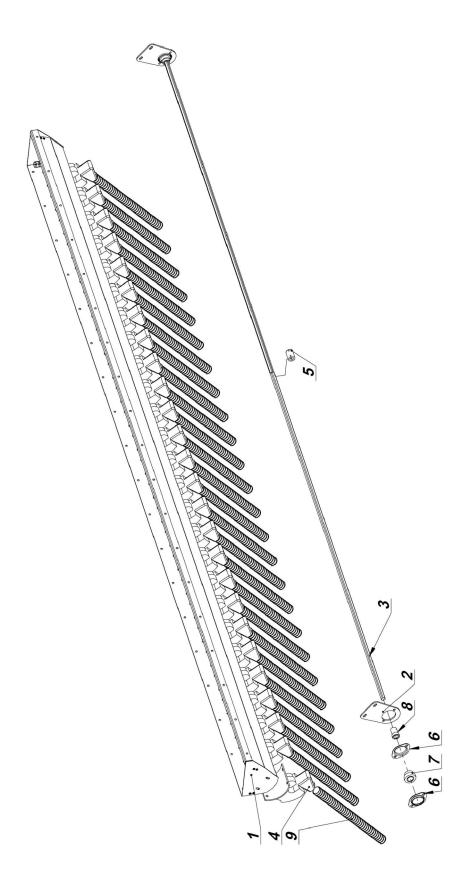


Fig. 10

## 11. TRAMLINE SYSTEM 3052\_21-17-00-000

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	3052_21-02-05-000	Bracket set	1	
1.1	3052_21-02-05-100	Welded bracket	1	
1.2	3052_21-02-05-001	Scale	1	
1.3	PN-85_M-82105	Screw M8x20-8.8-B-Fe_Zn5	2	
1.4	PN-78_M-82005	Washer 8.4 Fe_Zn5	2	
2	3052_21-17-00-300	Welded connector	4	
3	3052_21-17-00-003	Pusher	4	
4	3043_05-00-003	Push spring	4	
5	PN-86_M-82144	Nut M8-8-B-Fe/Zn5	8	
6	121000-11301210	Electric actuator	1	
7	3043_05-00-002	Shaft of tramline system	1	
8	3052_21-17-01-000	Bracket set	4	
8.1	3052_21-17-01-100	Welded base	1	
8.2	2015_04-01-202_1	Sleeve	1	
9	3052_21-17-00-100	Welded handle	1	
10	3052_21-17-00-200	Welded arm	8	
11	Set screw M6x8	PN-82/M-82273	9	
12	3052_21-17-00-004	Sleeve	2	
13	3043_01-00-08-002	U bolt	1	
14	PN-85_M-82105	Screw M8x30-8.8-B-Fe_Zn5	2	
15	PN-78_M-82005	Washer 8.4 Fe_Zn5	2	
16	PN-85_M-82175	Self-locking nut M12-8-B-Fe_Zn5	2	
17	PN-85_M-82175	Self-locking nut M8-8-B-Fe_Zn5	2	
18	3052_21-17-00-001	Shutter	4	
19	3052_21-17-00-002	Guide	4	
20	3052_21-17-00-005	Bracket 1	1	
21	3052_21-17-00-006	Bracket 2	1	

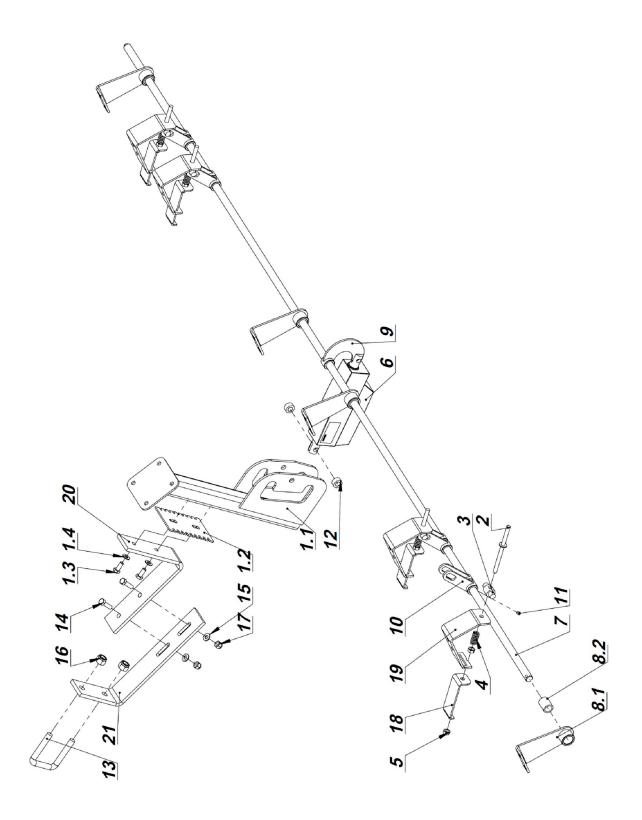


Fig. 11

## 12. SCREEN SET 3052\_21-02-11-000

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	3052_21-02-11-200	Welded right screen	1	
2	3045_40-00-023_1	Retaining ring of indicator rod	16	
3	3052_08-02-00-010	Barrier grip	8	
4	PN-85_M-82175	Self-locking nut M6-8-B-Fe_Zn5	16	
5	PN-85_M-82175	Self-locking nut M8-8-B-Fe_Zn5	8	
6	PN-85_M-82105	Screw M6x16-8.8-B-Fe_Zn5	16	
7	PN-85_M-82105	Screw M8x20-8.8-B-Fe_Zn5	8	
8	3052_21-02-11-100	Welded retaining ring	4	
9	3052_21-02-11-300	Welded left screen	1	
10	3052_21-02-11-001	Clamp	2	

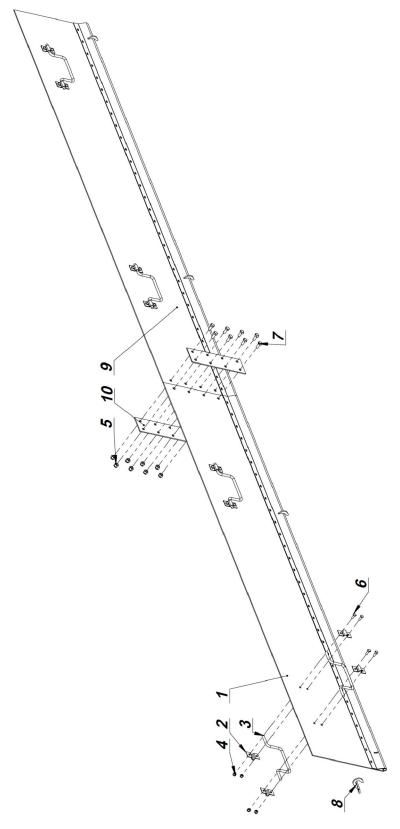


Fig. 12

# 13. LEFT HUB SET 3078\_01-08-00-000\_2

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	3078_01-07-02-000	Welded hub	1	
2	6007 RS	Ball bearing PN-79_M-86100	1	
3	6009 RS	Ball bearing	1	
4	3078_01-08-01-000_2	Welded left wheel axis	1	
5	PN-81_M-85111z	Circlip Z 1	1	

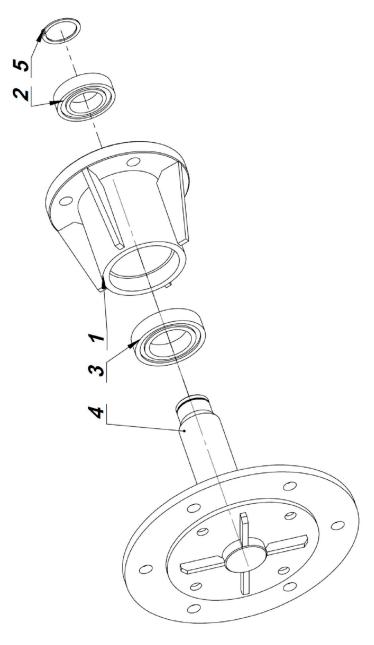


Fig. 13

# 14. PLATFORM WITH FIRMER 3052\_21-06-00-000

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	3052_21-06-01-000	Welded platform	1	
2	PN-85_M-82105	Screw M10x35-8.8-B-Fe_Zn5	8	
3	PN-85_M-82175	Self-locking nut M10-8-B-Fe_Zn5	8	
4	PN-78_M-82005	Washer 10.5 Fe_Zn5	16	
5	3052_21-06-05-000	Welded railing	2	

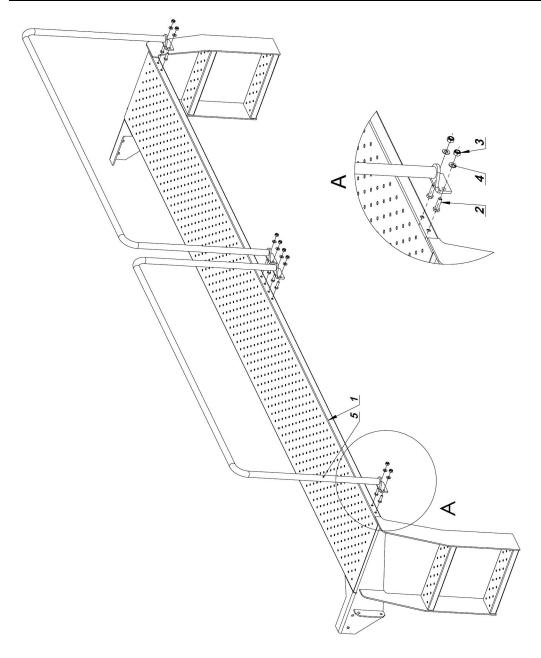


Fig. 14

## 15. SEEDER POWER FEED 3052\_21-08-00-000

item	_		1	
no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	3052_21-08-01-000	Hub set	1	Table 16
2	3052_21-08-00-100	Welded wheel Z23	1	
3	3052_21-08-00-200	Welded wheel Z34	1	
4	3052_21-08-00-300	Welded wheel Z72	1	
5	3052_21-08-00-400	Welded wheel Z14	1	
6	3052_21-08-06-100	Welded chain wheel Z22	1	
7	3052_21-08-00-001	Shaft 1	1	
8	3052_21-08-00-007	Bearing sleeve	2	
9	D205	Ball bearing PN-73/M-86120	2	
10	P205	Bearing mounting PN-78/M-86468	4	
11	3052_21-08-00-002	Chain 08B	1	
12	3052_21-08-00-003	Chain 08B	1	
13	3052_21-08-00-004	Chain 10B	1	
14	VIVAP_10-10-000	Tensioner 1a set	1	
14.1	VIVAP_10-06-002	Washer 14,2x22x1,0	1	
14.2	PN-81_M-85111z	Circlip Z 14	1	
14.3	PN-78_M-82005	Washer 10.5 Fe_Zn5	1	
14.4	PN-85_M-82175	Self-locking nut M10-8-B-Fe_Zn5	1	
14.5	VIVAP_10-06-200	Welded tensioner 1 pin	1	
14.6	3078_53-01-001	Oil-retaining bush	2	
14.7	VIVAP_10-10-100	Welded drive wheel 10B	1	
15	3052_21-08-07-000	Tensioner 08B set	3	
15.1	VIVAP_10-06-002	Washer 14,2x22x1,0	1	
15.2	PN-81_M-85111z	Circlip Z 14	1	
15.3	PN-78_M-82005	Washer 10.5 Fe_Zn5	1	
15.4	PN-85_M-82175	Self-locking nut M10-8-B-Fe_Zn5	1	
15.5	3052_21-08-07-200	Welded tensioner pin	1	
15.6	3078_53-01-001	Oil-retaining bush	2	
15.7	3052_21-08-07-100	Welded drive wheel 10B	1	
16	3052_21-08-06-000	Fertilizer sowing gear	1	Table 17
17	3052_21-08-00-600	Welded arm	1	
18	3052_21-08-05-000	Clutch set	1	Table 18
19	PN-85_M-82101	Screw M12x110-8.8-B-Fe_Zn5	4	
20	3052_21-08-00-006	Clutch interlock	1	
21	PN-85_M-82175	Self-locking nut M12-8-B-Fe_Zn5	4	

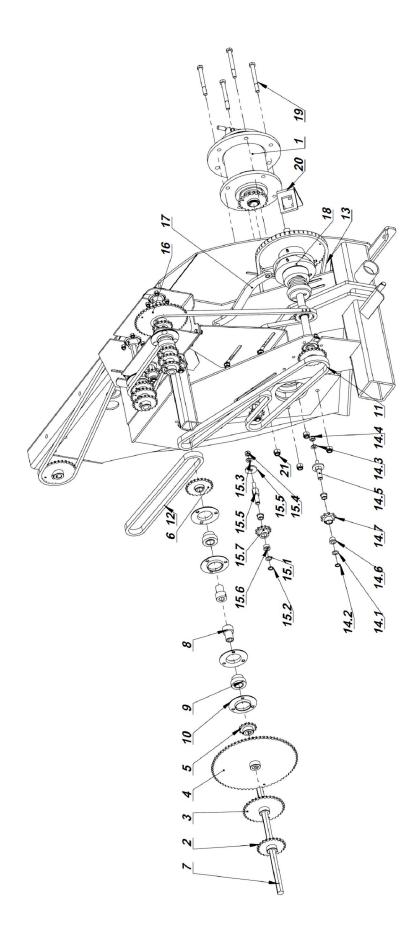


Fig. 15

# 16. HUB SET 3052\_21-08-01-000

1       3052_21-08-01-100       Welded shaft       1         2       3052_21-08-01-200       Welded sleeve       1         3       3052_21-08-01-300       Welded external sleeve       1         4       3052_21-08-01-400       Welded cover       1         5       3052_21-08-01-001       Driver       1         6       3052_21-08-01-002       Ring       1         7       3052_21-08-01-003       Gasket       2         8       6006 2RS       Ball bearing PN-79_M-86100       2         9       32915 A       Cone bearing PN-86/M-86220       2         10       Bearing nut KM15       PN-82/M-86478       1         11       Toothed washer MB15       PN-82/M-86482       1	tity Remarks
3 3052_21-08-01-300 Welded external sleeve 1 4 3052_21-08-01-400 Welded cover 1 5 3052_21-08-01-001 Driver 1 6 3052_21-08-01-002 Ring 1 7 3052_21-08-01-003 Gasket 2 8 6006 2RS Ball bearing PN-79_M-86100 2 9 32915 A Cone bearing PN-86/M-86220 2 10 Bearing nut KM15 PN-82/M-86478 1	
4 3052_21-08-01-400 Welded cover 1 5 3052_21-08-01-001 Driver 1 6 3052_21-08-01-002 Ring 1 7 3052_21-08-01-003 Gasket 2 8 6006 2RS Ball bearing PN-79_M-86100 2 9 32915 A Cone bearing PN-86/M-86220 2 10 Bearing nut KM15 PN-82/M-86478 1	
5       3052_21-08-01-001       Driver       1         6       3052_21-08-01-002       Ring       1         7       3052_21-08-01-003       Gasket       2         8       6006 2RS       Ball bearing PN-79_M-86100       2         9       32915 A       Cone bearing PN-86/M-86220       2         10       Bearing nut KM15       PN-82/M-86478       1	
6       3052_21-08-01-002       Ring       1         7       3052_21-08-01-003       Gasket       2         8       6006 2RS       Ball bearing PN-79_M-86100       2         9       32915 A       Cone bearing PN-86/M-86220       2         10       Bearing nut KM15       PN-82/M-86478       1	
7 3052_21-08-01-003 Gasket 2 8 6006 2RS Ball bearing PN-79_M-86100 2 9 32915 A Cone bearing PN-86/M-86220 2 10 Bearing nut KM15 PN-82/M-86478 1	
8       6006 2RS       Ball bearing PN-79_M-86100       2         9       32915 A       Cone bearing PN-86/M-86220       2         10       Bearing nut KM15       PN-82/M-86478       1	
9 32915 A Cone bearing PN-86/M-86220 2 10 Bearing nut KM15 PN-82/M-86478 1	
10 Bearing nut KM15 PN-82/M-86478 1	
44 Toothod wooder MD45 DN 92/M 9C492	
11 Toothed washer MB15 PN-82/M-86482 1	
12 PN-81_M-85111w Circlip W 55 4	
13 PN-81_M-85111w Circlip W 105 2	
14 PN-81_M-85111z Circlip Z 30 3	
15 Simmerring 30x55x7 SIMRIT 529837 1	
16 Simmerring 80x105x13 SIMRIT 334326 1	
17 3052_21-08-01-500 Welded wheel Z 19 1	
18 Key A8x7x32 PN-70_M-85005 Parallel key 1	
19 3080_07-01-001 Spring 1	
20 PN-85_M-82105 Screw M6x35-8.8-B-Fe_Zn5 6	
21 PN-77_M-82008 Washer 6	
22 3052_21-08-01-004 Interlock screw 1	
23 3052_21-08-01-005 Interlock nut 1	

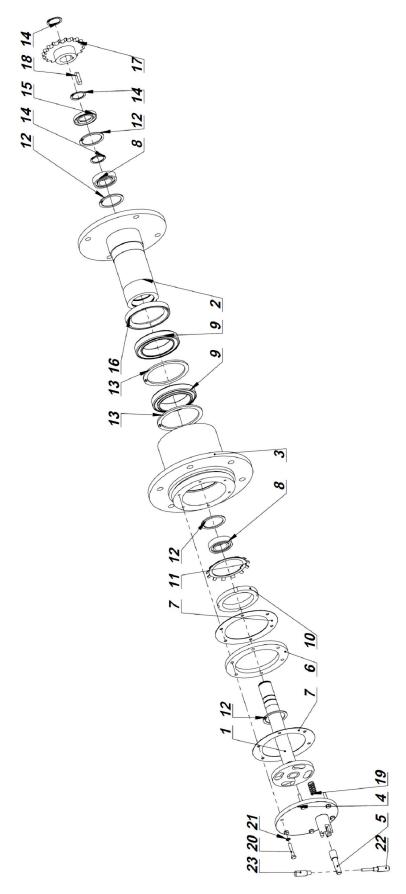


Fig. 16

# 17. FERTILIZER SOWING GEAR 3052\_21-08-06-000

item	Fig. no. or standard	Name of part (set)	Quantity	Remarks
no.	rig. 110. 01 Standard	Name of part (set)	Quantity	Remarks
1	3052_21-08-06-001_1	Gear base	1	
2	3052_21-08-06-400	Welded chain wheel Z 19	1	
3	3052_21-08-06-200	Welded chain wheel Z 21	1	
4	3052_21-08-06-300	Welded chain wheel Z 20	1	
5	3052_21-08-06-700	Welded chain wheel Z 16	2	
6	3052_21-08-06-500	Welded chain wheel Z 18	1	
7	3052_21-08-06-600	Welded chain wheel Z 17	1	
8	3052_21-08-06-800	Welded chain wheel Z 30	1	
9	3052_21-08-06-900	Welded chain wheel Z 44	1	
10	3052_21-08-00-500	Welded wheel Z12	2	
11	3052_21-08-06-002	Chain 08B	1	
12	3052_21-08-06-003	Chain 08B	1	
13	3052_21-08-06-004	Chain 08B	1	
14	3052_21-08-06-005	Driving shaft	2	
15	P205	Bearing mounting PN-78/M-86468	8	
16	D205	Ball bearing PN-73/M-86120	4	
17	3052_21-08-00-007	Bearing sleeve	4	
18	3052_21-08-07-000	Tensioner 08B set	5	
19	3052_21-08-06-006_1	Tensioner support	1	
20	PN-87_M-82406	Screw ZM8x25-8.8-Fe_Zn5	12	
21	PN-85_M-82175	Self-locking nut M8-8-B-Fe_Zn5	14	
22	PN-85_M-82105	Screw M8x12-8.8-B-Fe_Zn5	16	
23	PN-85_M-82105	Screw M8x20-8.8-B-Fe_Zn5	2	

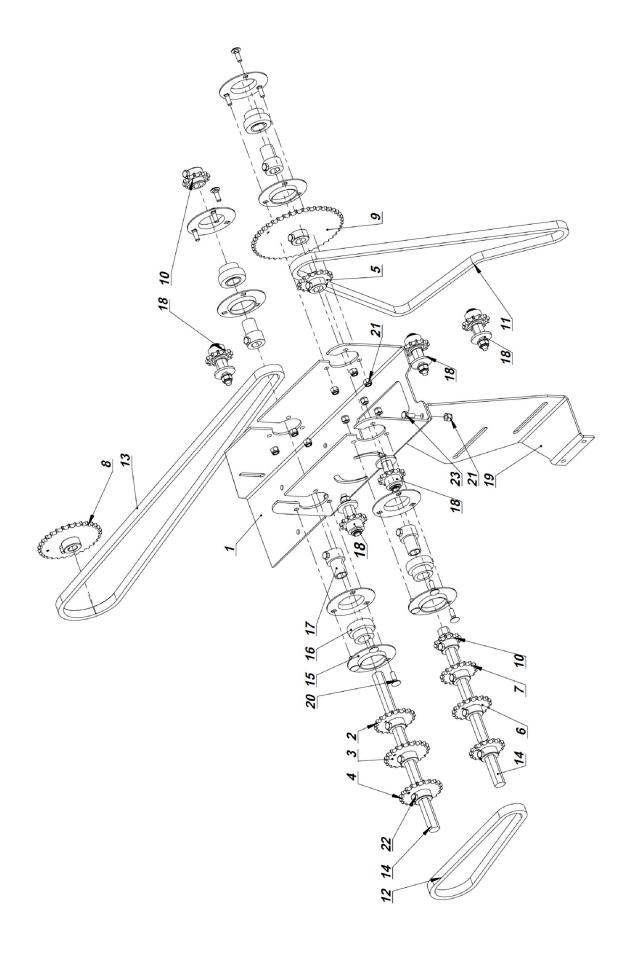


Fig. 17

## 18. CLUTCH SET 3052\_21-08-05-000

item	Fig. no. or Name of part (set)		Quantity	Remarks
no.	standard	Патто от ран (ост,		
1	3052_21-08-05-300	Hub set	1	
1.1	3052_21-08-05-003	Hub	1	
1.2	3052_05-09-11-202	Neck bush	1	
1.3	3052_05-09-11-203	Sleeve	1	
2	3052_21-08-05-002	Driver	1	
3	3052_21-08-05-004	Clutch shaft	1	
4	3045_00-00-006	Disc	1	
5	3061_04-00-00-049	Clutch spring	1	
6	P205	Bearing mounting PN-78/M-86468	4	
7	D205	Ball bearing PN-73/M-86120	2	
8	3052_21-08-05-001	Spreader	2	
9	3052_21-08-05-006	Grip	2	
10	3052_21-08-05-100	Welded wheel Z23	1	
11	3052_21-08-05-200	Welded wheel Z16	1	
12	3052_21-08-05-007	Chain wheel z= 47	1	
13	Key A8x7x32	PN-70_M-85005 Parallel key	3	
14	PN-76_M-82001	Cotter pin S-5x40-Fe_Zn5	1	
15	PN-89_M-85023	Spring-type straight pin 6x40	1	
16	PN-81_M-85111z	Circlip Z 25	2	
17	PN-85_M-82105	Screw M8x35-8.8-B-Fe_Zn5	6	
18	PN-77_M-82008	Washer	12	
19	PN-85_M-82105	Screw M8x25-8.8-B-Fe_Zn5	6	
20	PN-85_M-82105	Screw M8x12-8.8-B-Fe_Zn5	2	
21	PN-76_M-86002	Lubricating nipple M6	4	
22	3052_21-08-05-008	Washer	2	
23	PN-87_M-82406	Screw ZM8x25-8.8-Fe_Zn5	6	
24	PN-85_M-82175	Self-locking nut M8-8-B-Fe_Zn5	6	

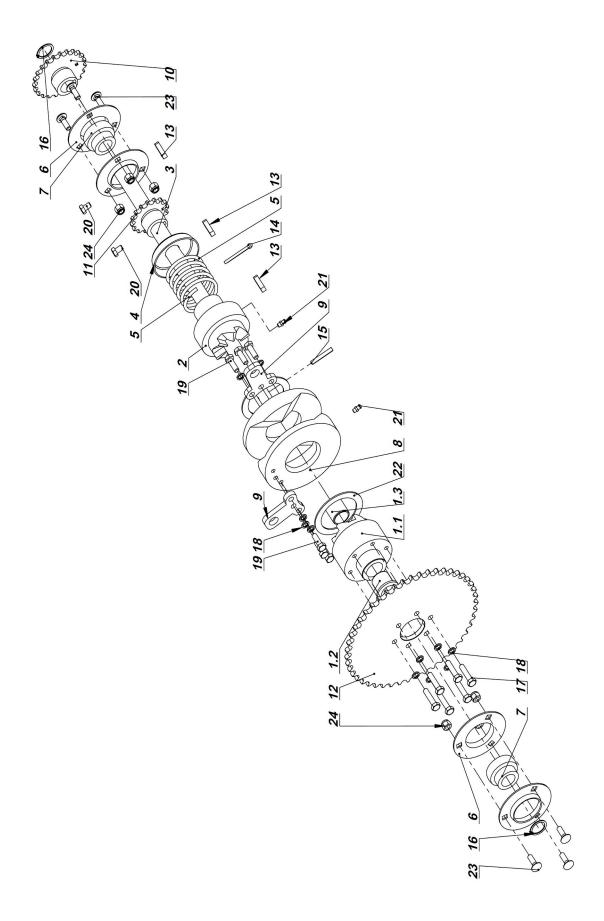


Fig. 18

## 19. MARKERS SET 3052\_21-16-00-000

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	CN1E-16-25_200z	Hydraulic cylinder, ram	2	
2	3078_07-00-014	Sleeve III	4	
3	3052_21-16-01-100	Welded marker right arm	1	
4	1772_05-00-03-000	Rubber fender	2	
5	3092_08-00-003	Marker spring	2	
6	PN-85_M-82105	Screw M12x70-8.8-B-Fe_Zn5	2	
7	3092_08-00-100	Welded cylinder lug	2	
8	3052_21-16-00-001	Marker interlock	2	
9	PN-78_M-82005	Washer	2	
10	3052_21-16-02-100	Welded marker left arm	1	
11	3092_08-00-002	Marker bolt	2	
12	N1-BN-81_1902-31 4	Pin A 4-Fe/Zn-m5c	4	
13	PN-89_M-85023	Spring-type straight pin 6x26	6	
14	PN-85_M-82175	Self-locking nut M12-8-B-Fe_Zn5	4	
15	PN-85_M-82105	Screw M16x45-8.8-B-Fe_Zn5	4	
16	PN-86_M-82144	Nut M16-8-B-Fe/Zn5	4	
17	PN-89_M-85023	Spring-type straight pin 10x60	2	
18	3052_21-16-03-000	Marker tube 40 set	2	

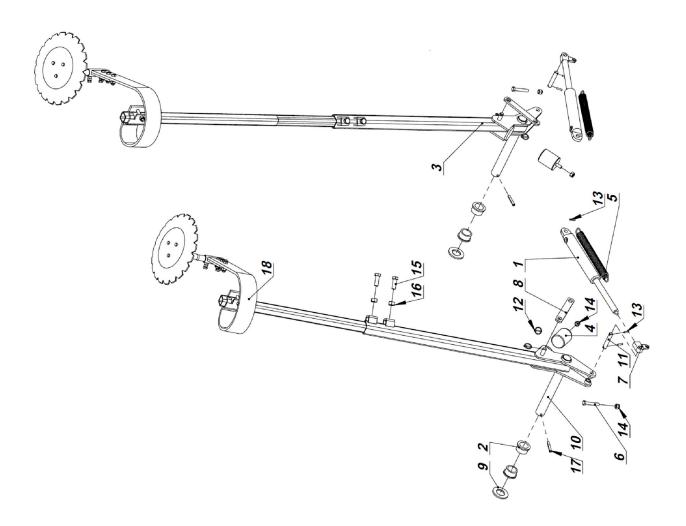


Fig. 19

# 20. RIPPERS SET 3052\_21-11-00-000

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	3052_21-11-03-000	Bar bracket set	2	
1.1	3052_21-11-03-100	Welded bar bracket	1	
1.2	POZ 2532	BIV-MET	2	
2	3052_21-11-02-000	Rippers bar set	1	
2.1	3052_21-11-02-100	Welded rippers bar	1	
2.2	1717_40-000_0	Ripper set	4	Table 21
3	CJ2F-16-63_36_200z	Hydraulic piston cylinder	1	
4	3052_21-11-00-001	Rippers bar bolt	2	
5	3052_21-11-00-002	Actuator bolt	2	
6	PN-89_M-85023	Spring-type straight pin 8x20	2	
7	PN-89_M-85023	Spring-type straight pin 8x50	4	

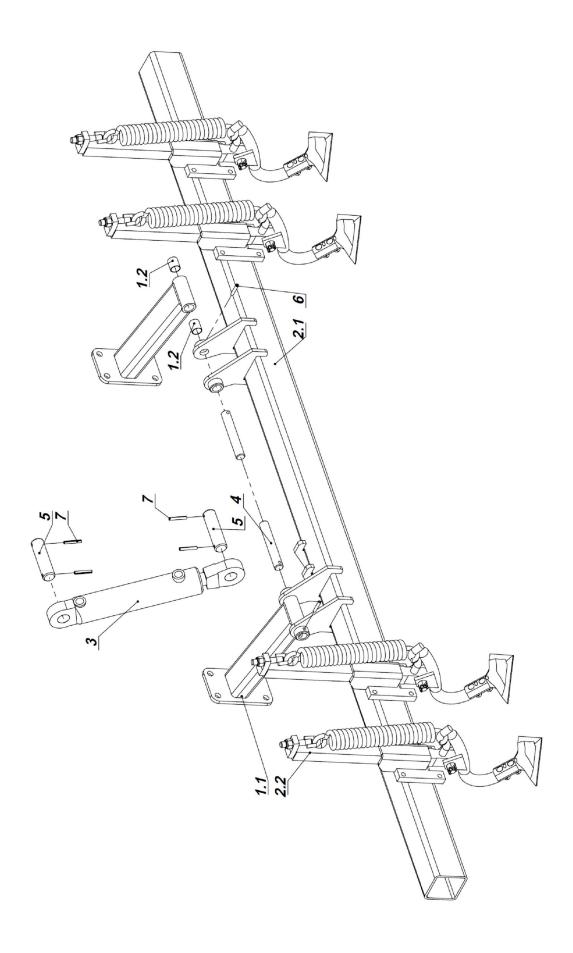


Fig. 20

# 21. RIPPER SET 3052\_21-11-00-000

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	1717_40-500_0	Welded cultivation point shank set	1	
2	1717_40-300_0	Welded spring connector set	1	
3	1717_40-001_0	Spring	1	
4	1717_40-200_0	Welded ripper standard set	1	
5	1717_40-007_0	Cultivation point 180	1	
6	1717_40-006_0	Special screw Z M10x50	2	
7	PN-77_M-82008	Spring washer Z10.2-Fe_Zn5	2	
8	PN-85_M-82175	Self-locking nut M16-8-B-Fe_Zn5	1	
9	PN-86_M-82144	Nut M10-8-B-Fe/Zn5	2	
10	1717_40-003_0	Ripper axis	1	
11	1717_40-004_0	Adapter sleeve	2	
12	1717_40-005_0	Distance half-ring	1	
13	PN-86_M-82148	Castellated nut ZM16-8-B-Fe_Zn5	1	
14	PN-76_M-82001	Cotter pin S-4x32-Fe_Zn5	1	
15	PN-76_M-86002	Lubricating nipple M8	1	
16	1717_40-100_0	Welded retaining ring of standard set	1	
17	PN-85_M-82105	Screw M16x45-8.8-B-Fe_Zn5	2	

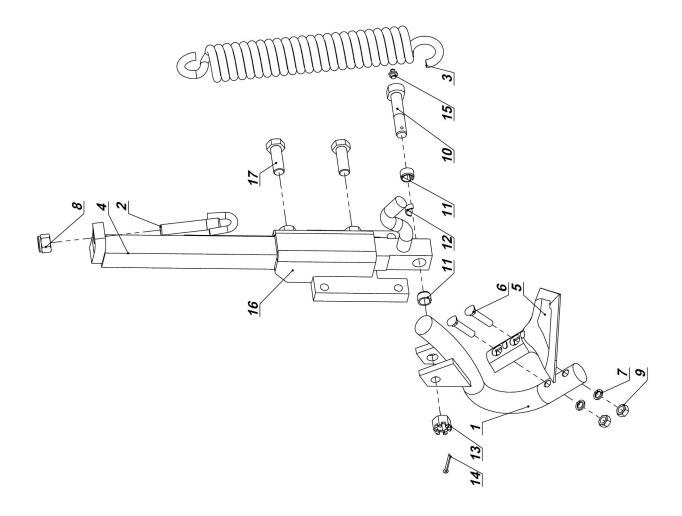


Fig. 21

## 22. COULTER BAR SET 3052\_21-05-00-000

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	3052_21-05-01-000	Welded coulter bar	1	
2	POZ 2532	BIV-MET	2	
3	3052_21-14-00-000	Long coulter set	13	Table 24
4	3052_21-15-00-000	Short coulter set	13	Table 23
5	3052_21-05-02-000	Pressure plate set	1	
6	POZ 4025	BIV-MET	2	
7	3052_21-00-00-400	Welded pressure bolt	2	
8	3052_21-00-00-100	Welded bolt	1	
9	3052_21-00-00-200	Welded bar bolt	2	

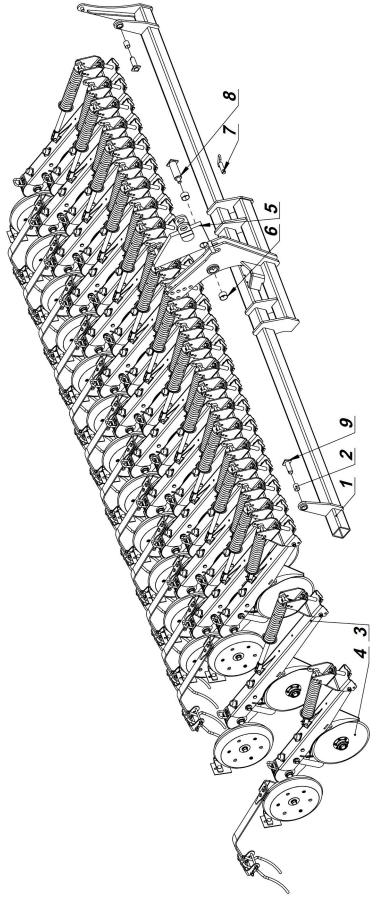


Fig. 22

## 23. SHORT COULTER SET 3052\_21-15-00-000

item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks
1	3043_20-00-005	Washer of road wheel	2	
2	3052_21-03-00-002	Distance sleeve	1	
3	PN-85_M-82101	Screw M12x130-8.8-B-Fe_Zn5	1	
4	PN-87_M-82406	Screw ZM12x140-8.8-Fe_Zn5	1	
5	PN-85_M-82175	Self-locking nut M12-8-B-Fe_Zn5	2	
6	3052_21-03-00-003	Bolt	1	
7	FTM 1248	Fork	1	
8	3052_21-03-00-006	Clamp	1	
9	3052_21-03-00-007	Spring	1	
10	3052_21-04-00-001	Short pin	1	
11	3052_21-03-00-009_1	Bolt	1	
12	3052_21-03-00-010	Guide	1	
13	High nut M12-8-B	PN-86/M-82155	1	
14	PN-86_M-82144	Nut M12-8-B Fe/Zn9	2	
15	3052_21-03-00-011_1	End cap	1	
16	JFM-2026-25	Sleeve IGUS	4	
17	3052_21-03-02-000	Disc set	2	
17.1	3052_21-03-02-001_1	Disc	1	
17.2	SK6453A	Bearing SKF ADH 7524	1	
17.3	Countersunk screw M6x16	PN-85/M-82207	6	
17.4	PN-85_M-82175	Self-locking nut M6-8-B-Fe_Zn5	6	
18	3052_21-03-00-016	Guard	2	
19	3052_21-03-00-015	Washer	6	
20	3052_21-03-00-017_1	Scraper	1	
21	3052_21-15-01-000	Welded short frame	1	
22	3052_21-03-00-018_1	Guard	1	
23	PN-87_M-82406	Screw ZM10x25-8.8-Fe_Zn5	1	
24	PN-86_M-82144	Nut M10-8-B-Fe/Zn5	1	
25	PN-77_M-82008	Spring washer Z10.2-Fe_Zn5	1	
26	PN-78_M-82005	Washer 10.5 Fe_Zn5	1	
27	3052_21-03-04-000	Welded sowing tube	1	
28	PN-76_M-82001	Cotter pin S-3,2x20-Fe_Zn5	2	
29	3052_21-03-00-021_1	Disc screw	1	
30	3052_21-03-00-022	Left disc screw	1	
31	3052_21-03-06-000	Welded sowing tube	1	
32	PN-85_M-82105	Screw M6x16-8.8-B-Fe_Zn5	1	
33	PN-78_M-82005	Washer 6.4 Fe_Zn5	1	
34	PN-85_M-82175	Self-locking nut M6-8-B-Fe_Zn5	1	

35	3052_21-03-07-000_1	Welded hinge	1	
36	PN-85_M-82105	Screw M4x10-8.8-B-Fe_Zn5	4	
37	PN-77_M-82008	Spring washer Z4.1-Fe_Zn5		
38	PSM-3034-20	Sleeve IGUS	2	
39	3052_21-15-02-000	Welded arm with wheel	1	
39.1	3052_21-15-02-100	Welded wheel arm	1	
39.2	3052_21-03-00-100	Jockey wheel set 3"x13"	1	
39.3	PN-85_M-82105	Screw M16x80-8.8-B-Fe_Zn5	1	
39.4	PN-78_M-82005	Washer 17 Fe_Zn5	1	
39.5	PN-77_M-82008	Spring washer Z16.3-Fe_Zn5	1	
40	3092_06-07-000	Handle set	1	
40.1	3092_06-07-100	Welded cam	1	
40.2	3092_06-07-200	Welded adjustment grip	1	
40.3	3078_03-00-009_1	Spring	1	
40.4	VIVA_06-03-001	Spring guide	1	
40.5	PN-89_M-85023	Spring-type straight pin 4x30	1	
40.6	PN-89_M-85023	Spring-type straight pin 6x45	1	
40.7	3092_06-07-300	Welded guide	1	
41	PN-78_M-82005	Washer 21 Fe_Zn5	1	
42	PN-89_M-85023	Spring-type straight pin 6x35	1	
43	3092_06-10-000	Scraper bracket set	1	
43.1	3092_06-09-001	Scraper	1	
43.2	PN-87_M-82406	Screw ZM10x30-8.8-Fe_Zn5	1	
43.3	PN-78_M-82005	Washer 10.5 Fe_Zn5	1	
43.4	PN-77_M-82008	Spring washer Z10.2-Fe_Zn5	1	
43.5	PN-86_M-82144	Nut M10-8-B-Fe/Zn5	1	
43.6	Countersunk screw M10x20	DIN 7991 (ISO 10642)	2	
43.7	3092_06-10-100	Welded scraper bracket	1	
44	3092_06-11-000	Firmer set	1	
44.1	3092_15-03-001	Firmer spring	1	
44.2	3092_07-05-002	Distance	2	
44.3	PN-85_M-82105	Screw M8x40-8.8-B-Fe_Zn5	2	
44.4	PN-85_M-82175	Self-locking nut M8-8-B-Fe_Zn5	2	
44.5	PN-85_M-82105	Screw M10x25-8.8-B-Fe_Zn5	2	
44.6	3092_07-05-004	Reinforcement	1	
44.7	PN-85_M-82101	Screw M10x120-8.8-B-Fe/Zn5	2	
44.8	PN-85_M-82175	Self-locking nut M10-8-B-Fe_Zn5	2	
44.9	3092_06-11-001	Spring support	1	
44.1	3092_07-05-006	Spring clamp	1	
45	3052_21-14-00-001	Hinge sleeve	1	_

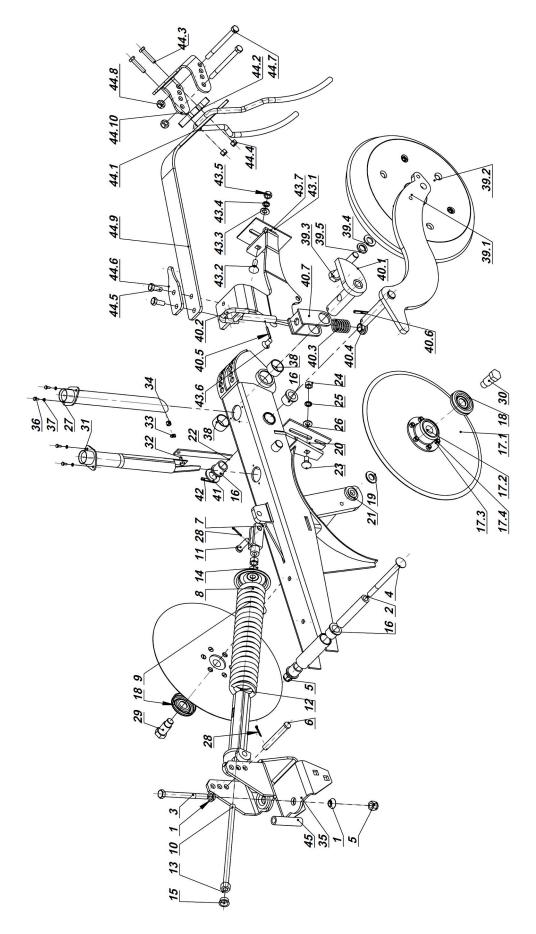
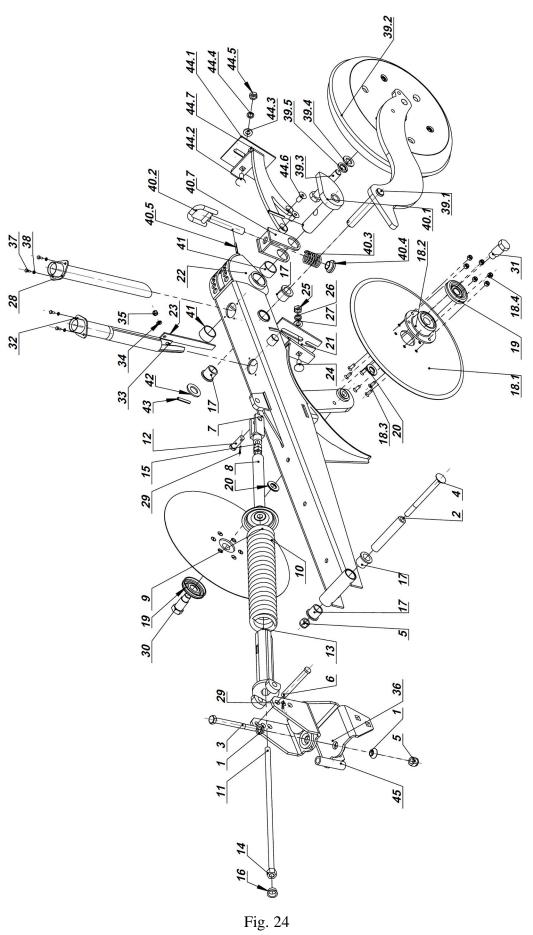


Fig. 23

### 24. LONG COULTER SET 3052\_21-14-00-000

Table to fig. 24						
item no.	Fig. no. or standard	Name of part (set)	Quantity	Remarks		
1	3043_20-00-005	Washer of road wheel	2			
2	3052_21-03-00-002	Distance sleeve	1			
3	PN-85_M-82101	Screw M12x130-8.8-B-Fe_Zn5	1			
4	PN-87_M-82406	Screw ZM12x140-8.8-Fe_Zn5	1			
5	PN-85_M-82175	Self-locking nut M12-8-B-Fe_Zn5	2			
6	3052_21-03-00-003	Bolt	1			
7	FTM 1248	Fork	1			
8	3052_21-03-00-005	Sleeve	1			
9	3052_21-03-00-006	Clamp	1			
10	3052_21-03-00-007	Spring	1			
11	3052_21-03-00-008	Pin	1			
12	3052_21-03-00-009_1	Bolt	1			
13	3052_21-03-00-010	Guide	1			
14	High nut M12-8-B	PN-86/M-82155	1			
15	PN-86_M-82144	Nut M12-8-B Fe/Zn9	2			
16	3052_21-03-00-011_1	End cap	1			
17	JFM-2026-25	Sleeve IGUS	4			
18	3052_21-03-02-000	Disc set	2			
18.1	3052_21-03-02-001_1	Disc	1			
18.2	SK6453A	Bearing SKF ADH 7524	1			
18.3	Countersunk screw M6x16	PN-85/M-82207	6			
18.4	PN-85_M-82175	Self-locking nut M6-8-B-Fe_Zn5	6			
19	3052_21-03-00-016	Guard	2			
20	3052_21-03-00-015	Washer	6			
21	3052_21-03-00-017_1	Scraper	1			
22	3052_21-14-01-000	Welded frame	1			
23	3052_21-03-00-018_1	Guard	1			
24	PN-87_M-82406	Screw ZM10x25-8.8-Fe_Zn5	1			
25	PN-86_M-82144	Nut M10-8-B-Fe/Zn5	1			
26	PN-77_M-82008	Spring washer Z10.2-Fe_Zn5	1			
27	PN-78_M-82005	Washer 10.5 Fe_Zn5	1			
28	3052_21-03-04-000	Welded sowing tube	1			
29	PN-76_M-82001	Cotter pin S-3,2x20-Fe_Zn5	2			
30	3052_21-03-00-021_1	Disc screw	1			
31	3052_21-03-00-022	Left disc screw	1			
32	3052_21-03-06-000	Welded sowing tube	1			

34         PN-78_M-82005         Washer 6.4 Fe_Zn5         1           35         PN-85_M-82175         Self-locking nut M6-8-B-Fe_Zn5         1           36         3052_21-03-07-000_1         Welded hinge         1           37         PN-85_M-82105         Screw M4x10-8.8-B-Fe_Zn5         4           38         PN-77_M-82008         Spring washer Z4.1-Fe_Zn5         4           39         3052_21-15-02-000         Welded arm with wheel         1           39.1         3052_21-15-02-100         Welded wheel arm         1           39.2         3052_21-03-00-100         Jockey wheel set 3"x13"         1           39.3         PN-85_M-82105         Screw M16x80-8.8-B-Fe_Zn5         1           39.4         PN-78_M-82005         Washer 17 Fe_Zn5         1           39.4         PN-78_M-82008         Spring washer Z16.3-Fe_Zn5         1           40         3092_06-07-000         Handle set         1           40.1         3092_06-07-100         Welded cam         1           40.2         3092_06-07-200         Welded adjustment grip         1           40.3         3078_03-0-009_1         Spring 9         1           40.4         VIVA_06-03-001         Spring 9         1 <th>33</th> <th>PN-85_M-82105</th> <th>Screw M6x16-8.8-B-Fe_Zn5</th> <th>1  </th> <th></th>	33	PN-85_M-82105	Screw M6x16-8.8-B-Fe_Zn5	1	
36 3052_21-03-07-000_1 Welded hinge 1  37 PN-85_M-82105 Screw M4x10-8.8-B-Fe_Zn5 4  38 PN-77_M-82008 Spring washer Z4.1-Fe_Zn5 4  39 3052_21-15-02-000 Welded arm with wheel 1  39.1 3052_21-15-02-100 Welded wheel arm 1  39.2 3052_21-03-00-100 Jockey wheel set 3"x13" 1  39.3 PN-85_M-82105 Screw M16x80-8.8-B-Fe_Zn5 1  39.4 PN-78_M-82005 Washer 17 Fe_Zn5 1  39.5 PN-77_M-82008 Spring washer Z16.3-Fe_Zn5 1  40 3092_06-07-000 Handle set 1  40.1 3092_06-07-100 Welded cam 1  40.2 3092_06-07-200 Welded adjustment grip 1  40.3 3078_03-00-009_1 Spring 1  40.4 VIVA_06-03-001 Spring guide 1  40.5 PN-89_M-85023 Spring-type straight pin 4x30 1  40.6 PN-89_M-85023 Spring-type straight pin 6x45 1  40.7 3092_06-07-300 Welded guide 1  41 PSM-3034-20 Sleeve IGUS 2  42 PN-78_M-82005 Washer 21 Fe_Zn5 1  43 PN-89_M-85023 Spring-type straight pin 6x35 1  44 3092_06-09-000 Scraper 1  44.1 3092_06-09-001 Scraper 1  44.2 PN-8_M-82005 Washer 21 Fe_Zn5 1  44.3 PN-78_M-82005 Washer 21 Fe_Zn5 1  44.1 3092_06-09-001 Scraper 1  44.2 PN-8_M-82005 Washer 21 Fe_Zn5 1  44.3 PN-78_M-82005 Washer 21 Fe_Zn5 1  44.4 PN-77_M-82008 Spring washer 210.2-Fe_Zn5 1  44.5 PN-86_M-82144 Nut M10-8-B-Fe/Zn5 1  44.6 Countersunk screw M10x20 DIN 7991 (ISO 10642) 2  44.7 3092_06-09-100 Welded scraper bracket 1	34	PN-78_M-82005	Washer 6.4 Fe_Zn5	1	
37         PN-85_M-82105         Screw M4x10-8.8-B-Fe_Zn5         4           38         PN-77_M-82008         Spring washer Z4.1-Fe_Zn5         4           39         3052_21-15-02-000         Welded arm with wheel         1           39.1         3052_21-15-02-100         Welded wheel arm         1           39.2         3052_21-03-00-100         Jockey wheel set 3"x13"         1           39.3         PN-85_M-82105         Screw M16x80-8.8-B-Fe_Zn5         1           39.4         PN-78_M-82005         Washer 17 Fe_Zn5         1           39.5         PN-77_M-82008         Spring washer Z16.3-Fe_Zn5         1           40         3092_06-07-000         Handle set         1           40.1         3092_06-07-100         Welded cam         1           40.2         3092_06-07-200         Welded adjustment grip         1           40.3         3078_03-00-009_1         Spring         1           40.4         VIVA_06-03-001         Spring guide         1           40.5         PN-89_M-85023         Spring-type straight pin 4x30         1           40.6         PN-89_M-85023         Spring-type straight pin 6x45         1           40.7         3092_06-07-300         Welded guide <td< td=""><td>35</td><td>PN-85_M-82175</td><td>Self-locking nut M6-8-B-Fe_Zn5</td><td>1</td><td></td></td<>	35	PN-85_M-82175	Self-locking nut M6-8-B-Fe_Zn5	1	
38         PN-77_M-82008         Spring washer Z4.1-Fe_Zn5         4           39         3052_21-15-02-000         Welded arm with wheel         1           39.1         3052_21-15-02-100         Welded wheel arm         1           39.2         3052_21-03-00-100         Jockey wheel set 3"x13"         1           39.3         PN-85_M-82105         Screw M16x80-8.8-B-Fe_Zn5         1           39.4         PN-78_M-82005         Washer 17 Fe_Zn5         1           39.5         PN-77_M-82008         Spring washer Z16.3-Fe_Zn5         1           40         3092_06-07-000         Handle set         1           40.1         3092_06-07-100         Welded cam         1           40.2         3092_06-07-200         Welded adjustment grip         1           40.3         3078_03-00-009_1         Spring         1           40.4         VIVA_06-03-001         Spring guide         1           40.5         PN-89_M-85023         Spring-type straight pin 6x45         1           40.6         PN-89_M-85023         Spring-type straight pin 6x45         1           41         PSM-3034-20         Sleeve IGUS         2           42         PN-78_M-82005         Washer 21 Fe_Zn5         1 </td <td>36</td> <td>3052_21-03-07-000_1</td> <td>Welded hinge</td> <td>1</td> <td></td>	36	3052_21-03-07-000_1	Welded hinge	1	
39 3052_21-15-02-000 Welded arm with wheel 1 39.1 3052_21-15-02-100 Welded arm with wheel 1 39.2 3052_21-03-00-100 Jockey wheel set 3"x13" 1 39.3 PN-85_M-82105 Screw M16x80-8.8-B-Fe_Zn5 1 39.4 PN-78_M-82005 Washer 17 Fe_Zn5 1 39.5 PN-77_M-82008 Spring washer Z16.3-Fe_Zn5 1 40 3092_06-07-000 Handle set 1 40.1 3092_06-07-100 Welded cam 1 40.2 3092_06-07-200 Welded adjustment grip 1 40.3 3078_03-00-009_1 Spring 1 40.4 VIVA_06-03-001 Spring guide 1 40.5 PN-89_M-85023 Spring-type straight pin 4x30 1 40.6 PN-89_M-85023 Spring-type straight pin 6x45 1 40.7 3092_06-07-300 Welded guide 1 41 PSM-3034-20 Sleeve IGUS 2 42 PN-78_M-82005 Washer 21 Fe_Zn5 1 43 PN-89_M-85023 Spring-type straight pin 6x35 1 44 3092_06-09-000 Scraper bracket set 1 44.1 3092_06-09-001 Scraper 1 44.2 PN-87_M-82406 Screw ZM10x30-8.8-Fe_Zn5 1 44.3 PN-78_M-82005 Washer 10.5 Fe_Zn5 1 44.4 PN-77_M-82008 Spring washer Z10.2-Fe_Zn5 1 44.5 PN-86_M-82144 Nut M10-8-B-Fe/Zn5 1 44.6 Countersunk screw M10x20 Welded scraper bracket 1 44.7 3092_06-09-100 Welded scraper bracket 1	37	PN-85_M-82105	Screw M4x10-8.8-B-Fe_Zn5	4	
39.1       3052_21-15-02-100       Welded wheel arm       1         39.2       3052_21-03-00-100       Jockey wheel set 3"x13"       1         39.3       PN-85_M-82105       Screw M16x80-8.8-B-Fe_Zn5       1         39.4       PN-78_M-82005       Washer 17 Fe_Zn5       1         39.5       PN-77_M-82008       Spring washer Z16.3-Fe_Zn5       1         40       3092_06-07-000       Handle set       1         40.1       3092_06-07-100       Welded cam       1         40.2       3092_06-07-200       Welded adjustment grip       1         40.3       3078_03-00-009_1       Spring       1         40.4       VIVA_06-03-001       Spring guide       1         40.5       PN-89_M-85023       Spring-type straight pin 4x30       1         40.6       PN-89_M-85023       Spring-type straight pin 6x45       1         40.7       3092_06-07-300       Welded guide       1         41       PSM-3034-20       Sleeve IGUS       2         42       PN-78_M-82005       Washer 21 Fe_Zn5       1         43       PN-89_M-85023       Spring-type straight pin 6x35       1         44       3092_06-09-000       Scraper       1	38	PN-77_M-82008	Spring washer Z4.1-Fe_Zn5	4	
39.2       3052_21-03-00-100       Jockey wheel set 3"x13"       1         39.3       PN-85_M-82105       Screw M16x80-8.8-B-Fe_Zn5       1         39.4       PN-78_M-82005       Washer 17 Fe_Zn5       1         39.5       PN-77_M-82008       Spring washer Z16.3-Fe_Zn5       1         40       3092_06-07-000       Handle set       1         40.1       3092_06-07-100       Welded cam       1         40.2       3092_06-07-200       Welded adjustment grip       1         40.3       3078_03-00-009_1       Spring       1         40.4       VIVA_06-03-001       Spring guide       1         40.5       PN-89_M-85023       Spring-type straight pin 4x30       1         40.6       PN-89_M-85023       Spring-type straight pin 6x45       1         40.7       3092_06-07-300       Welded guide       1         41       PSM-3034-20       Sleeve IGUS       2         42       PN-78_M-82005       Washer 21 Fe_Zn5       1         43       PN-89_M-85023       Spring-type straight pin 6x35       1         44.1       3092_06-09-000       Scraper       1         44.2       PN-87_M-82005       Washer 10.5 Fe_Zn5       1	39	3052_21-15-02-000	Welded arm with wheel	1	
39.3         PN-85_M-82105         Screw M16x80-8.8-B-Fe_Zn5         1           39.4         PN-78_M-82005         Washer 17 Fe_Zn5         1           39.5         PN-77_M-82008         Spring washer Z16.3-Fe_Zn5         1           40         3092_06-07-000         Handle set         1           40.1         3092_06-07-100         Welded cam         1           40.2         3092_06-07-200         Welded adjustment grip         1           40.3         3078_03-00-009_1         Spring         1           40.4         VIVA_06-03-001         Spring guide         1           40.5         PN-89_M-85023         Spring-type straight pin 4x30         1           40.6         PN-89_M-85023         Spring-type straight pin 6x45         1           40.7         3092_06-07-300         Welded guide         1           41         PSM-3034-20         Sleeve IGUS         2           42         PN-78_M-82005         Washer 21 Fe_Zn5         1           43         PN-89_M-85023         Spring-type straight pin 6x35         1           44         3092_06-09-000         Scraper bracket set         1           44.1         3092_06-09-001         Scraper         1           44	39.1	3052_21-15-02-100	Welded wheel arm	1	
39.4       PN-78_M-82005       Washer 17 Fe_Zn5       1         39.5       PN-77_M-82008       Spring washer Z16.3-Fe_Zn5       1         40       3092_06-07-000       Handle set       1         40.1       3092_06-07-100       Welded cam       1         40.2       3092_06-07-200       Welded adjustment grip       1         40.3       3078_03-00-009_1       Spring       1         40.4       VIVA_06-03-001       Spring guide       1         40.5       PN-89_M-85023       Spring-type straight pin 4x30       1         40.6       PN-89_M-85023       Spring-type straight pin 6x45       1         40.7       3092_06-07-300       Welded guide       1         41       PSM-3034-20       Sleeve IGUS       2         42       PN-78_M-82005       Washer 21 Fe_Zn5       1         43       PN-89_M-85023       Spring-type straight pin 6x35       1         44       3092_06-09-000       Scraper bracket set       1         44.1       3092_06-09-001       Scraper       1         44.2       PN-87_M-82406       Screw ZM10x30-8.8-Fe_Zn5       1         44.3       PN-78_M-82005       Washer 10.5 Fe_Zn5       1         44.4	39.2	3052_21-03-00-100	Jockey wheel set 3"x13"	1	
39.5 PN-77_M-82008 Spring washer Z16.3-Fe_Zn5 1 40 3092_06-07-000 Handle set 1 40.1 3092_06-07-100 Welded cam 1 40.2 3092_06-07-200 Welded adjustment grip 1 40.3 3078_03-00-009_1 Spring 1 40.4 VIVA_06-03-001 Spring guide 1 40.5 PN-89_M-85023 Spring-type straight pin 4x30 1 40.6 PN-89_M-85023 Spring-type straight pin 6x45 1 40.7 3092_06-07-300 Welded guide 1 41 PSM-3034-20 Sleeve IGUS 2 42 PN-78_M-82005 Washer 21 Fe_Zn5 1 43 PN-89_M-85023 Spring-type straight pin 6x35 1 44 3092_06-09-000 Scraper bracket set 1 44.1 3092_06-09-001 Scraper 1 44.2 PN-87_M-82406 Screw ZM10x30-8.8-Fe_Zn5 1 44.3 PN-78_M-82005 Washer 10.5 Fe_Zn5 1 44.4 PN-77_M-82008 Spring washer Z10.2-Fe_Zn5 1 44.5 PN-86_M-82144 Nut M10-8-B-Fe/Zn5 1 44.6 Countersunk screw M10x20 Welded scraper bracket 1	39.3	PN-85_M-82105	Screw M16x80-8.8-B-Fe_Zn5	1	
40       3092_06-07-000       Handle set       1         40.1       3092_06-07-100       Welded cam       1         40.2       3092_06-07-200       Welded adjustment grip       1         40.3       3078_03-00-009_1       Spring       1         40.4       VIVA_06-03-001       Spring guide       1         40.5       PN-89_M-85023       Spring-type straight pin 4x30       1         40.6       PN-89_M-85023       Spring-type straight pin 6x45       1         40.7       3092_06-07-300       Welded guide       1         41       PSM-3034-20       Sleeve IGUS       2         42       PN-78_M-82005       Washer 21 Fe_Zn5       1         43       PN-89_M-85023       Spring-type straight pin 6x35       1         44       3092_06-09-000       Scraper bracket set       1         44.1       3092_06-09-001       Scraper       1         44.2       PN-87_M-82406       Screw ZM10x30-8.8-Fe_Zn5       1         44.3       PN-78_M-82005       Washer 10.5 Fe_Zn5       1         44.4       PN-77_M-82008       Spring washer Z10.2-Fe_Zn5       1         44.5       PN-86_M-82144       Nut M10-8-B-Fe/Zn5       1         44	39.4	PN-78_M-82005	Washer 17 Fe_Zn5	1	
40.1       3092_06-07-100       Welded cam       1         40.2       3092_06-07-200       Welded adjustment grip       1         40.3       3078_03-00-009_1       Spring       1         40.4       VIVA_06-03-001       Spring guide       1         40.5       PN-89_M-85023       Spring-type straight pin 4x30       1         40.6       PN-89_M-85023       Spring-type straight pin 6x45       1         40.7       3092_06-07-300       Welded guide       1         41       PSM-3034-20       Sleeve IGUS       2         42       PN-78_M-82005       Washer 21 Fe_Zn5       1         43       PN-89_M-85023       Spring-type straight pin 6x35       1         44       3092_06-09-000       Scraper bracket set       1         44.1       3092_06-09-001       Scraper       1         44.2       PN-87_M-82406       Screw ZM10x30-8.8-Fe_Zn5       1         44.3       PN-78_M-82005       Washer 10.5 Fe_Zn5       1         44.4       PN-77_M-82008       Spring washer Z10.2-Fe_Zn5       1         44.5       PN-86_M-82144       Nut M10-8-B-Fe/Zn5       1         44.6       Countersunk screw M10x20       DIN 7991 (ISO 10642)       2	39.5	PN-77_M-82008	Spring washer Z16.3-Fe_Zn5	1	
40.2       3092_06-07-200       Welded adjustment grip       1         40.3       3078_03-00-009_1       Spring       1         40.4       VIVA_06-03-001       Spring guide       1         40.5       PN-89_M-85023       Spring-type straight pin 4x30       1         40.6       PN-89_M-85023       Spring-type straight pin 6x45       1         40.7       3092_06-07-300       Welded guide       1         41       PSM-3034-20       Sleeve IGUS       2         42       PN-78_M-82005       Washer 21 Fe_Zn5       1         43       PN-89_M-85023       Spring-type straight pin 6x35       1         44       3092_06-09-000       Scraper bracket set       1         44.1       3092_06-09-001       Scraper       1         44.2       PN-87_M-82406       Screw ZM10x30-8.8-Fe_Zn5       1         44.3       PN-78_M-82005       Washer 10.5 Fe_Zn5       1         44.4       PN-77_M-82008       Spring washer Z10.2-Fe_Zn5       1         44.5       PN-86_M-82144       Nut M10-8-B-Fe/Zn5       1         44.6       Countersunk screw M10x20       DIN 7991 (ISO 10642)       2         44.7       3092_06-09-100       Welded scraper bracket       1 <td>40</td> <td>3092_06-07-000</td> <td>Handle set</td> <td>1</td> <td></td>	40	3092_06-07-000	Handle set	1	
40.3 3078_03-00-009_1 Spring 1 40.4 VIVA_06-03-001 Spring guide 1 40.5 PN-89_M-85023 Spring-type straight pin 4x30 1 40.6 PN-89_M-85023 Spring-type straight pin 6x45 1 40.7 3092_06-07-300 Welded guide 1 41 PSM-3034-20 Sleeve IGUS 2 42 PN-78_M-82005 Washer 21 Fe_Zn5 1 43 PN-89_M-85023 Spring-type straight pin 6x35 1 44 3092_06-09-000 Scraper bracket set 1 44.1 3092_06-09-001 Scraper 1 44.2 PN-87_M-82406 Screw ZM10x30-8.8-Fe_Zn5 1 44.3 PN-78_M-82005 Washer 10.5 Fe_Zn5 1 44.4 PN-77_M-82008 Spring washer Z10.2-Fe_Zn5 1 44.5 PN-86_M-82144 Nut M10-8-B-Fe/Zn5 1 44.6 Countersunk screw M10x20 Welded scraper bracket 1 44.7 3092_06-09-100 Welded scraper bracket 1	40.1	3092_06-07-100	Welded cam	1	
40.4       VIVA_06-03-001       Spring guide       1         40.5       PN-89_M-85023       Spring-type straight pin 4x30       1         40.6       PN-89_M-85023       Spring-type straight pin 6x45       1         40.7       3092_06-07-300       Welded guide       1         41       PSM-3034-20       Sleeve IGUS       2         42       PN-78_M-82005       Washer 21 Fe_Zn5       1         43       PN-89_M-85023       Spring-type straight pin 6x35       1         44       3092_06-09-000       Scraper bracket set       1         44.1       3092_06-09-001       Scraper       1         44.2       PN-87_M-82406       Screw ZM10x30-8.8-Fe_Zn5       1         44.3       PN-78_M-82005       Washer 10.5 Fe_Zn5       1         44.4       PN-77_M-82008       Spring washer Z10.2-Fe_Zn5       1         44.5       PN-86_M-82144       Nut M10-8-B-Fe/Zn5       1         44.6       Countersunk screw M10x20       DIN 7991 (ISO 10642)       2         44.7       3092_06-09-100       Welded scraper bracket       1	40.2	3092_06-07-200	Welded adjustment grip	1	
40.5       PN-89_M-85023       Spring-type straight pin 4x30       1         40.6       PN-89_M-85023       Spring-type straight pin 6x45       1         40.7       3092_06-07-300       Welded guide       1         41       PSM-3034-20       Sleeve IGUS       2         42       PN-78_M-82005       Washer 21 Fe_Zn5       1         43       PN-89_M-85023       Spring-type straight pin 6x35       1         44       3092_06-09-000       Scraper bracket set       1         44.1       3092_06-09-001       Scraper       1         44.2       PN-87_M-82406       Screw ZM10x30-8.8-Fe_Zn5       1         44.3       PN-78_M-82005       Washer 10.5 Fe_Zn5       1         44.4       PN-77_M-82008       Spring washer Z10.2-Fe_Zn5       1         44.5       PN-86_M-82144       Nut M10-8-B-Fe/Zn5       1         44.6       Countersunk screw M10x20       DIN 7991 (ISO 10642)       2         44.7       3092_06-09-100       Welded scraper bracket       1	40.3	3078_03-00-009_1	Spring	1	
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40.7       3092_06-07-300       Welded guide       1         41       PSM-3034-20       Sleeve IGUS       2         42       PN-78_M-82005       Washer 21 Fe_Zn5       1         43       PN-89_M-85023       Spring-type straight pin 6x35       1         44       3092_06-09-000       Scraper bracket set       1         44.1       3092_06-09-001       Scraper       1         44.2       PN-87_M-82406       Screw ZM10x30-8.8-Fe_Zn5       1         44.3       PN-78_M-82005       Washer 10.5 Fe_Zn5       1         44.4       PN-77_M-82008       Spring washer Z10.2-Fe_Zn5       1         44.5       PN-86_M-82144       Nut M10-8-B-Fe/Zn5       1         44.6       Countersunk screw M10x20       DIN 7991 (ISO 10642)       2         44.7       3092_06-09-100       Welded scraper bracket       1	40.5	PN-89_M-85023	Spring-type straight pin 4x30	1	
41       PSM-3034-20       Sleeve IGUS       2         42       PN-78_M-82005       Washer 21 Fe_Zn5       1         43       PN-89_M-85023       Spring-type straight pin 6x35       1         44       3092_06-09-000       Scraper bracket set       1         44.1       3092_06-09-001       Scraper       1         44.2       PN-87_M-82406       Screw ZM10x30-8.8-Fe_Zn5       1         44.3       PN-78_M-82005       Washer 10.5 Fe_Zn5       1         44.4       PN-77_M-82008       Spring washer Z10.2-Fe_Zn5       1         44.5       PN-86_M-82144       Nut M10-8-B-Fe/Zn5       1         44.6       Countersunk screw M10x20       DIN 7991 (ISO 10642)       2         44.7       3092_06-09-100       Welded scraper bracket       1	40.6	PN-89_M-85023	Spring-type straight pin 6x45	1	
42       PN-78_M-82005       Washer 21 Fe_Zn5       1         43       PN-89_M-85023       Spring-type straight pin 6x35       1         44       3092_06-09-000       Scraper bracket set       1         44.1       3092_06-09-001       Scraper       1         44.2       PN-87_M-82406       Screw ZM10x30-8.8-Fe_Zn5       1         44.3       PN-78_M-82005       Washer 10.5 Fe_Zn5       1         44.4       PN-77_M-82008       Spring washer Z10.2-Fe_Zn5       1         44.5       PN-86_M-82144       Nut M10-8-B-Fe/Zn5       1         44.6       Countersunk screw M10x20       DIN 7991 (ISO 10642)       2         44.7       3092_06-09-100       Welded scraper bracket       1	40.7	3092_06-07-300	Welded guide	1	
43       PN-89_M-85023       Spring-type straight pin 6x35       1         44       3092_06-09-000       Scraper bracket set       1         44.1       3092_06-09-001       Scraper       1         44.2       PN-87_M-82406       Screw ZM10x30-8.8-Fe_Zn5       1         44.3       PN-78_M-82005       Washer 10.5 Fe_Zn5       1         44.4       PN-77_M-82008       Spring washer Z10.2-Fe_Zn5       1         44.5       PN-86_M-82144       Nut M10-8-B-Fe/Zn5       1         44.6       Countersunk screw M10x20       DIN 7991 (ISO 10642)       2         44.7       3092_06-09-100       Welded scraper bracket       1	41	PSM-3034-20	Sleeve IGUS	2	
44       3092_06-09-000       Scraper bracket set       1         44.1       3092_06-09-001       Scraper       1         44.2       PN-87_M-82406       Screw ZM10x30-8.8-Fe_Zn5       1         44.3       PN-78_M-82005       Washer 10.5 Fe_Zn5       1         44.4       PN-77_M-82008       Spring washer Z10.2-Fe_Zn5       1         44.5       PN-86_M-82144       Nut M10-8-B-Fe/Zn5       1         44.6       Countersunk screw M10x20       DIN 7991 (ISO 10642)       2         44.7       3092_06-09-100       Welded scraper bracket       1	42	PN-78_M-82005	Washer 21 Fe_Zn5	1	
44.1       3092_06-09-001       Scraper       1         44.2       PN-87_M-82406       Screw ZM10x30-8.8-Fe_Zn5       1         44.3       PN-78_M-82005       Washer 10.5 Fe_Zn5       1         44.4       PN-77_M-82008       Spring washer Z10.2-Fe_Zn5       1         44.5       PN-86_M-82144       Nut M10-8-B-Fe/Zn5       1         44.6       Countersunk screw M10x20       DIN 7991 (ISO 10642)       2         44.7       3092_06-09-100       Welded scraper bracket       1	43	PN-89_M-85023	Spring-type straight pin 6x35	1	
44.2       PN-87_M-82406       Screw ZM10x30-8.8-Fe_Zn5       1         44.3       PN-78_M-82005       Washer 10.5 Fe_Zn5       1         44.4       PN-77_M-82008       Spring washer Z10.2-Fe_Zn5       1         44.5       PN-86_M-82144       Nut M10-8-B-Fe/Zn5       1         44.6       Countersunk screw M10x20       DIN 7991 (ISO 10642)       2         44.7       3092_06-09-100       Welded scraper bracket       1	44	3092_06-09-000	Scraper bracket set	1	
44.3       PN-78_M-82005       Washer 10.5 Fe_Zn5       1         44.4       PN-77_M-82008       Spring washer Z10.2-Fe_Zn5       1         44.5       PN-86_M-82144       Nut M10-8-B-Fe/Zn5       1         44.6       Countersunk screw M10x20       DIN 7991 (ISO 10642)       2         44.7       3092_06-09-100       Welded scraper bracket       1	44.1	3092_06-09-001	Scraper	1	
44.4       PN-77_M-82008       Spring washer Z10.2-Fe_Zn5       1         44.5       PN-86_M-82144       Nut M10-8-B-Fe/Zn5       1         44.6       Countersunk screw M10x20       DIN 7991 (ISO 10642)       2         44.7       3092_06-09-100       Welded scraper bracket       1	44.2	PN-87_M-82406	Screw ZM10x30-8.8-Fe_Zn5	1	
44.5       PN-86_M-82144       Nut M10-8-B-Fe/Zn5       1         44.6       Countersunk screw M10x20       DIN 7991 (ISO 10642)       2         44.7       3092_06-09-100       Welded scraper bracket       1	44.3	PN-78_M-82005	Washer 10.5 Fe_Zn5	1	
44.6       Countersunk screw M10x20       DIN 7991 (ISO 10642)       2         44.7       3092_06-09-100       Welded scraper bracket       1	44.4	PN-77_M-82008	Spring washer Z10.2-Fe_Zn5	1	
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·	44.6		DIN 7991 (ISO 10642)	2	
45 3052_21-14-00-001 Hinge sleeve 1	44.7	3092_06-09-100	Welded scraper bracket	1	
	45	3052_21-14-00-001	Hinge sleeve	1	



#### 4. SERVICING - MAINTENANCE

Comply with the safety instructions regarding servicing and maintenance. Your machine has been designed and built for maximum yield, profitability and comfort under many different usage conditions. Your machine has been checked at the factory and by your dealer before its delivery to ensure that you receive a machine in perfect condition. To maintain it in good working condition, it is important that servicing and maintenance operations are performed at the recommended frequency.

In order to ensure that your machine always operates correctly and to obtain an optimum performance, you must clean and maintain it at regular intervals. The hydraulic components and bearings must not be cleaned with a high-pressure washer or directly hosed down. The units, screwed connectors and bearings are not watertight to VERY high pressure cleaning.

#### Servicing frequency

The servicing frequency is determined by various factors. Different usage conditions, the weather, driving and working speeds, dust and the type of soil, etc. affect the frequency, and the lubrication and maintenance products used also determine the time until the next servicing work is required.

The servicing frequency indicated is therefore only to be used as a reference. If you deviate from the normal conditions of use, you must adapt the frequency at which this maintenance and servicing is carried out to suit the conditions:

#### 1/ After the first 10 hours of use:

- Check the tightness of the nuts and screws
- Check the hydraulic system (tightness and sealing)
- Check the tightness of the wheels
- Perform a complete diagnosis of the machine to ensure that there are no elements causing problems.
- Clean the soil off the machine

#### 2/ Every 50 hours of use

- Check the tightness of the nuts and screws
- Check the hydraulic system (tightness and sealing)
- Check the tightness of the wheels
- Perform a complete diagnosis of the machine to ensure that there are no elements causing problems.
- Lubricate the joints with greasers
- Clean the soil off the machine

#### Storage

If the machine is not going to be used for an extended period:

- Store the machine under a roof if possible.
- Disconnect the electrical control devices and store them in a dry place.
- Protect the machine against rust. Only spray with oils that are easily biodegradable, e.g. rape oil.
- Unload the wheels.
- Protect the hydraulic cylinder piston rods against corrosion.

Do not spray plastic and rubber parts with oil or an anti-corrosion agent or these parts may become fragile and break.

#### Cleaning

Before folding the machine, the beam under the cylinder must always be cleaned.

A build-up of soil, stones or other obstacles can damage the cylinder.

Failure to comply with this instruction will invalidate the warranty.

#### Lubrication

Lubricating the machine:

The machine must be lubricated regularly and after each pressure wash.

This keeps the machine in good working order and reduces the costs of repairs and downtime.

Hygiene:

Using lubricants and mineral products in line with the recommendations does not present any health risks. However, avoid prolonged contact with the skin or inhaling the vapours.

Handling lubricants

#### WARNING:

Protect yourself from direct contact with oils by wearing gloves or protective cream.

Carefully wash all traces of oil off your skin with soap and hot water. Do not clean your skin with petrol, diesel or other detergent products.

Oil is toxic. If you swallow oil, consult a doctor immediately.

- Keep lubricants out of reach of children.
- Never store lubricants in open containers or containers that are not labelled.
- Avoid your skin coming into contact with clothes that are soaked in oil. Change clothes when they are dirty.
- Do not keep cleaning cloths impregnated with oil in your pockets.
- Dispose of shoes impregnated with oil as dangerous waste.
- If oil splashes in your eyes, rinse with clean water and consult a doctor.
- Soak up spilt oil with a binder product and dispose of it.
- Never extinguish fires caused by oil with water. Only use authorised, appropriate extinguishing products and wear breathing apparatus.
- Waste polluted by oil and used oil must be disposed of in line with current regulations.

Lubricate / grease the machine at the stated frequency.

Carefully clean the lubrication points and the grease pump before lubrication to avoid any dirt getting into the bearings. Drain contaminated grease out of the bearings and replace with new grease!

#### Greasing

The cage rollers are attached using two self-aligning bearings with greasers.

To ensure that the self-alignment operates correctly, the bearings must be greased at the start of each new season and then regularly throughout the season.

Use lithium grease reinforced with molybdenum disulphide / Grade NLG12. AGRISEM INTERNATIONAL may not be held liable if another type of grease is used.

#### - Hydraulic maintenance

Risk of infection caused by the oil in the hydraulic circuit penetrating the skin under high pressure.

- Operations on the hydraulic circuit must only be performed by a specialised workshop.
- Depressurise the hydraulic circuit completely before carrying out any operations on it.
- Only use appropriate tools to look for leaks.
- Under no circumstances must you try to plug a leak in the hydraulic hoses with your hand or fingers.
- Liquid leaking under high pressure (hydraulic oil) can penetrate the skin and cause serious injury.
- In the event of an injury caused by hydraulic oil, consult a doctor immediately. Risk of infection.
- When connecting hydraulic hoses to the tractor's hydraulic circuit, ensure that the hydraulic circuits on the tractor and machine are not under pressure.
- Check that the hydraulic hoses are correctly connected.
- Regularly check that the hydraulic hoses and connections are in good condition and are clean.
- Have the hydraulic hoses checked by a specialist at least once a year to ensure that they are in good condition.
- Replace damaged or worn hydraulic hoses.
- Only use genuine AGRISEM hydraulic hoses.
- Hydraulic hoses must not be used for more than six years, including a possible storage time of
  two years maximum. Even under appropriate storage and usage conditions in line with
  permissible stresses, it is completely normal for hoses and connectors to age, which is why
  they have a limited storage time and service life. Nevertheless, the duration of use can be
  established in line with empirical values, in particular taking potential risks into account. Other
  reference values can be taken into consideration for thermoplastic hoses and pipes.
- Dispose of used oil in accordance with current regulations. If this poses a problem, contact your oil supplier.
- Keep hydraulic oil out of reach of children.
- Ensure that you do not contaminate the soil or water with hydraulic oil.

#### After 10 hours of service, and then every 50 hours of service

- 1. Check that all of the hydraulic circuit's components are sealed.
- 2. If necessary, tighten screwed connectors.

#### Before each start-up

- 1. Visually check the hydraulic hoses for faults.
- 2. Remove any friction points on hydraulic hoses and tubes.
- 3. Replace damaged or worn hydraulic hoses immediately.

Inspection criteria for hydraulic hoses.

For your own safety, comply with the following inspection criteria.

Replace the hydraulic hoses if you notice any of the following when examining them:

- Deterioration of the outer layer down to the lining (e.g. friction points, cuts, splits).
- Embrittlement of the outer layer (formation of cracks on the outer layer).
- Distortions which do not correspond to the natural shape of the hose or pipe, whether or not they are under pressure or bent (e.g. separation of the layers, bulges, crushed areas, bending).
- Areas that are leaking.

- Damaging or distortion of the end fitting (affecting its leaktightness). Slight superficial damage does not warrant replacement.
- Hose becoming detached from the end fitting.
- Corroded end fitting leading to reduced solidity and function.
- Non-compliance with mounting specifications.
- Exceeding of the 6-year usage period. The following information is vital: the date of manufacture of the hydraulic hose marked on the end fitting, to which you must add 6 years. If the date of manufacture indicated on the connector is "2004" the usage period will end in February 2010. See the "Marking of hydraulic hoses" section for further information.

Fitting and removing hydraulic hoses

When fitting and removing hydraulic hoses, the following instructions must be strictly adhered to:

- Only use genuine AGRISEM hydraulic hoses.
- Pay particular attention to cleanliness.
- You should always fit hydraulic hoses so that in all operating conditions,
  - ✓ They are not subject to traction, apart from that caused by their own weight.
  - ✓ No short lengths are flattened.
  - ✓ There are no external mechanical stresses on the hydraulic hoses.
  - ✓ Avoid hoses rubbing against parts of the machine or against each other by arranging and attaching them correctly. Protect hydraulic hoses with protective sheaths if necessary. Cover parts with sharp edges.
  - ✓ The authorised bending radii must not be exceeded.
- If hydraulic hoses are connected to moving parts, measure the length of the hose to ensure that the total range of movement is no less than the smallest authorised bending radius and/or that the hose is not subject to traction.
- Attach hydraulic hoses at the places intended for this purpose. Avoid mountings that may hinder the natural movement of the hose and modifications to its length.
- Hydraulic hoses must not be painted.

#### Wear ring maintenance:

Some joints on AGRISEM tools have wear rings. These must be changed at the first sign of lateral play.

#### Tyre maintenance:

The tyres must always be inflated to a pressure appropriate to their use. The pressure may need to be changed when moving between the road and the field. The average pressure of all Flexi-Pack tyres is



WAR	RANT	Y CLAIM F	ORM N	0				
					Dealer	r's stamp		
Dealer's name :								
File followed by :								
Date of purchase of the machine :			N° Invoi	ce AGRISI	EM			
Customer's name and addr	Customer's name and address:							
Delivery date : (join a copy of	of invoice and d	dealer's delivery note)		Aı	ea of farm:			
Serial Number of the	machine :				Working wid	lth :		
Description of the equipme combination (make and typ								
Type of tractor used:			I	Horse Powe	er:			
Model of tractor:								
Detailed description and presumed cause of incident :								
Date of problem:			Date present	:	_	1		
Reference of Defective part	Quantity	Désignation	n	Price Lis	Coef SAV	TOTAL (€)		
Pictures attached :	YES	Parts retu		Пп	YES			
	_	Freight costs paid to replacement of defective pa						
RESULT OF AGRISEM INTERNATIONAL EVALUATION								
Comments :								
Date:								
The after-sales service voann.jaunasse@agrise				Sign	nature :			