

# Instruction Manual

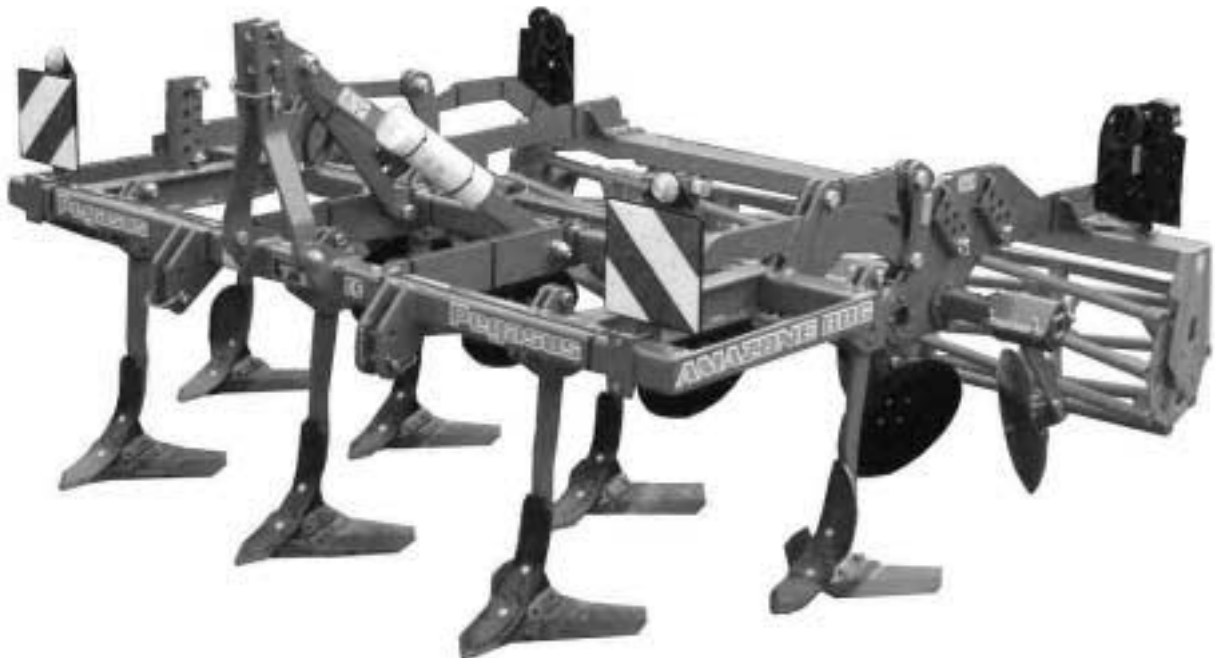
## Tractor Mounted Disc Cultivator

**AMAZONE BBG**

**Pegasus**

**SG 3002 / SG 4002 / SG 4003-2**

**SG 5003-2 / SG 6003-2**



MG 683  
DB 3060.1 (GB) 04.03  
Printed in Germany



Before starting operation carefully read and adhere to this instruction manual and the safety advice.



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Contents .....	Page
<b>1. Details about the machine .....</b>	<b>5</b>
1.1 Range of application .....	5
1.2 Manufacturer .....	5
1.3 Conformity declaration .....	5
1.4 On requesting after sales service and parts .....	5
1.5 Type plate .....	5
1.6 Technical data .....	6
1.6.1 Requirements on the tractor's hydraulic system .....	6
1.7 Designated use of the machine .....	6
<b>2. Safety .....</b>	<b>7</b>
2.1 Danger when not adhering to the safety advice .....	7
2.2 Qualification of operator .....	7
2.3 Identification of advice in this instruction manual .....	8
2.3 Identification of advice in this instruction manual .....	8
2.3.1 General danger symbol .....	8
2.3.2 Attention symbol .....	8
2.3.3 Hint-symbol .....	8
2.4 Warning pictographs and hint symbols on the machine .....	9
2.5 Safety conscious operation .....	12
2.6 General safety and accident prevention advice .....	12
2.6.1 Tractor mounted / trailed implements .....	12
2.7 Safety advice hydraulic system .....	13
2.8 General safety and accident prevention advice for maintenance, repair and cleaning .....	13
2.9 Transport on public roads .....	14
2.10 Combination of tractor and mounted implement .....	15
2.10.1 Determination of the total weight, the axle loads and the load capacity of the tyres as well as of the minimum ballast .....	15
<b>3. Description of product .....</b>	<b>17</b>
<b>4. On receipt of the machine .....</b>	<b>19</b>
<b>5. Mounting and dismounting .....</b>	<b>20</b>
5.1 Mounting to the tractor .....	20
5.2 Dismounting .....	21
<b>6. On the route to the field – Transport on public roads and ways .....</b>	<b>22</b>
6.1 Transport and operational position .....	23
<b>7. Settings .....</b>	<b>24</b>
7.1 Setting the depth of eccentric pin .....	24
7.2 Setting the depth of the concave discs .....	24
7.3 Setting the working depth of the wing shears .....	25
7.4 Setting the angle of the winged tines .....	25
<b>8. Operation .....</b>	<b>26</b>
8.1 Telescopic side discs .....	26
8.2 Driving at the headlands .....	26



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<b>9.</b>	<b>Cleaning, maintenance and repair .....</b>	<b>27</b>
9.1	Lubricant review.....	28
9.2	Hydraulic hoses .....	29
9.2.1	Exchange intervals .....	29
9.2.2	Marking.....	29
9.2.3	Please observe when fitting and removing.....	29
<b>10.</b>	<b>Special optional equipment .....</b>	<b>30</b>
10.1	Side discs.....	30
10.2	Traffic light kit.....	30

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## 1. Details about the machine

### 1.1 Range of application

The **AMAZONE-BBG** tractor mounted disc cultivator **Pegasus** is designed for the common use in agriculture for soil tillage in combination with an **AMAZONE-BBG** roller.

### 1.2 Manufacturer

**BBG** Bodenbearbeitungsgeräte Leipzig  
GmbH & Co. KG

A company of the **AMAZONEN**-Group  
Weidenweg 19  
D-04249 Leipzig

### 1.3 Conformity declaration

The disc harrow fulfils the requirements of the EC guide line Machine 98/37/EG and the corresponding additional guide lines.

### 1.4 On requesting after sales service and parts

When ordering options or spare parts, the machine model and the disc harrow serial number have to be quoted.



The safety requirements will only be fulfilled if in case of repair original **AMAZONE-BBG**-spare parts will be used. No liability will be accepted for consequential losses or resulting damage if other spare parts will be used.

### 1.5 Type plate

Type plate on the machine



Type:

Machine - No.: \_\_\_\_\_



**The type plate is of documentary value and may not be changed or disguised.**



## 1.6 Technical data

	SG 3002	SG 4002	SG 4003-2	SG5003-2	SG 6003-2
Working width [m]	3,0	4,0	4,0	5,0	6,0
Number of openers / discs	7/6	9/8	9/8	11/10	13/12
Transport width [cm]	293	398	298	298	298
Weight „S“ with shear pin safety [kg]	950	1380	1970	2150	2350
Weight "D" with coil spring-safety	1180	1670	2050	2450	2750
Power requirement [KW/HP] from	66/90	80/110	80/110	110/150	130/180
Working depth up to max. x. [cm]	20	20	20	20	20
Working speed [km/h]	12	12	12	12	12
Tractor mount category	II	II	II	II	II/III

### 1.6.1 Requirements on the tractor's hydraulic system

Required for connecting the mounted disc harrow with to the tractor's hydraulic system:

- For the foldable execution: one double acting spool valve is required

The permissible pressure of the tractor hydraulic is 230 bar.

### 1.7 Designated use of the machine

The **AMAZONE-BBG** tractor mounted disc cultivator **Pegasus** has exclusively been designed for the common use in soil tillage. Any other use is no longer considered as designed use. The manufacturer will not accept any responsibility for damage resulting from this. Therefore, the operator himself carries the full risk. Under "designed use" also the adhering to the manufacturer's prescribed operation, maintenance- and repair conditions as well as the exclusive use **original AMAZONE-BBG** spare parts is to be understood..



**Any damage resulting from arbitrary changes on the machine rule out the responsibility of the manufacturer!**

## 2. Safety

This instruction manual contains basic advice, which has to be observed when mounting, operating and maintaining the machine. Thus, this instruction manual has implicitly to be read by the operator before starting to operate and this book must be made available to him.

All safety advice in this instruction manual must be strictly observed and adhered to.

### 2.1 Danger when not adhering to the safety advice

Not adhering to the safety advice

- may result in endangering persons, also the environment and also the machine itself.
- may result in the rejection of any claim for damage.

Not paying attention to the safety advice may cause the following risks:

- Danger to persons not excluded from operational areas.
- Failure of important functions within the machine.
- Failure of carrying out prescribed measures of maintenance and repair.
- Danger to persons through physical or chemical contact.
- Danger to persons, or the environment by leaking hydraulic oil.

### 2.2 Qualification of operator

The implement may only be operated, maintained and repaired by persons, who are acquainted with it and have been informed of the relevant dangers.

## 2.3 Identification of advice in this instruction manual

### 2.3.1 General danger symbol



The safety advice in this operators manual, which may lead to a danger to persons if not being observed, are identified with the general danger symbol (Danger symbol according to DIN 4833-W9).

### 2.3.2 Attention symbol



Attention symbols which may cause dangers to the machine and its function when not being adhered to, are identified with the attention symbol.

### 2.3.3 Hint-symbol

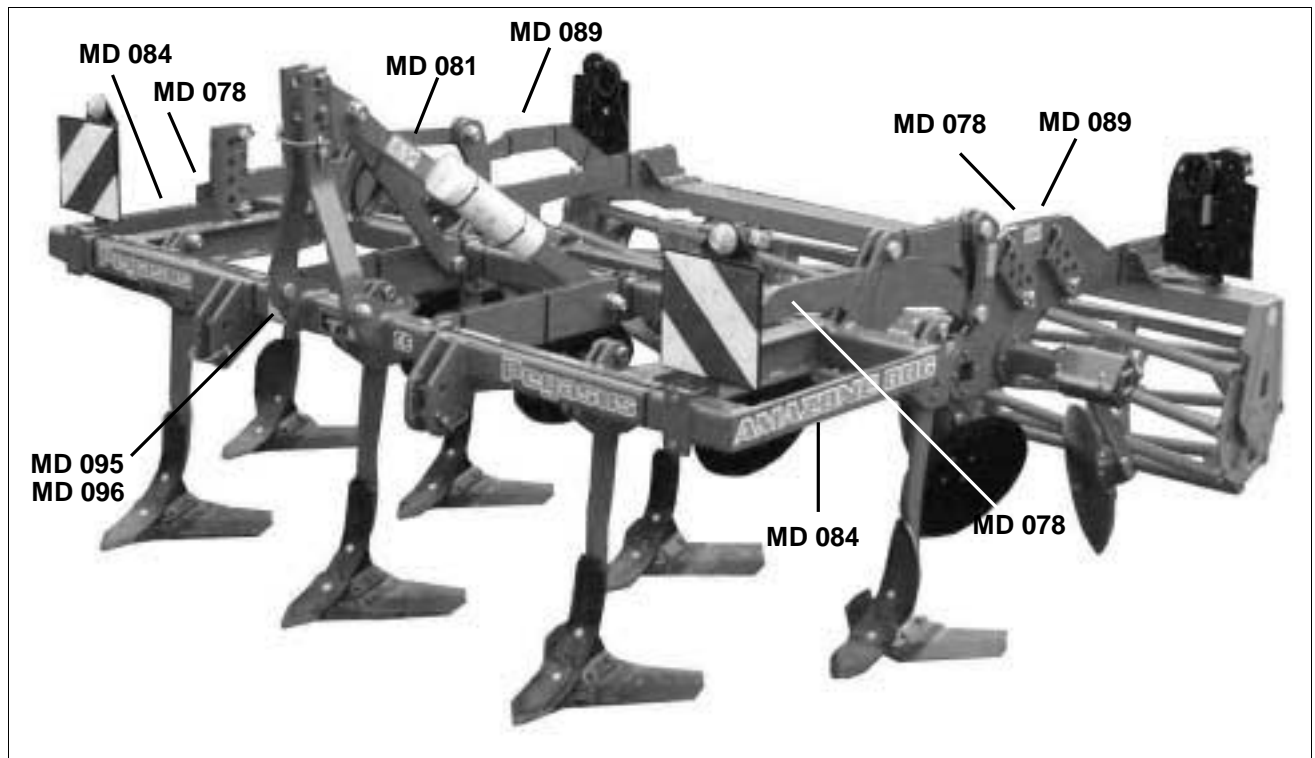


This symbol marks machine's specific points that should be observed to ensure the correct function of the machine.



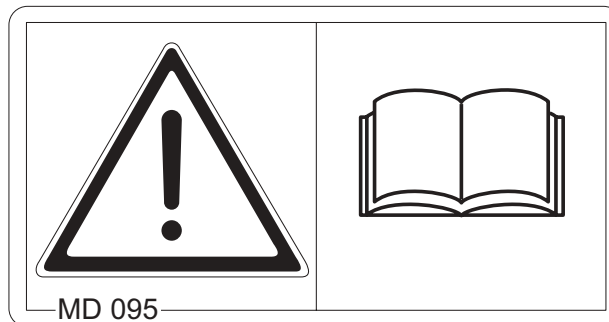
## 2.4 Warning pictographs and hint symbols on the machine

- The warning pictographs indicate dangerous points on the machine. Observing these pictographs means safety for all persons using this machine. The hint symbols always are linked to safety/warning symbols.
- The hint symbols mark machine's specific points which have to be observed to ensure correct function of the machine.
- Strictly observe all warning and hint pictographs.
- Please pass on all safety advice also to other users.
- Please keep all warning and hint signs clean and in an easily readable condition. Please ask for replacement of damaged or missing decals from your dealer and attach to the relevant place (picture No.: = order-No.).
- Fig. following shows the fixing points of warning and hint signs. Please find the relevant explanations below.

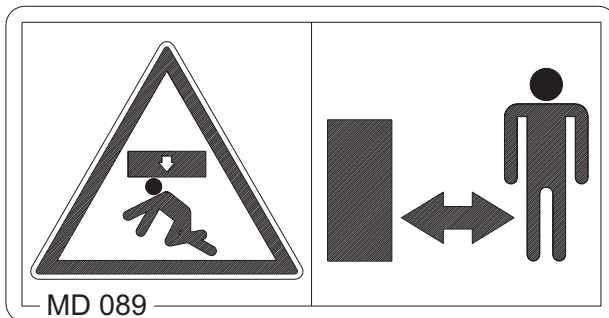


**Picture No.: MD 095****Explanation:**

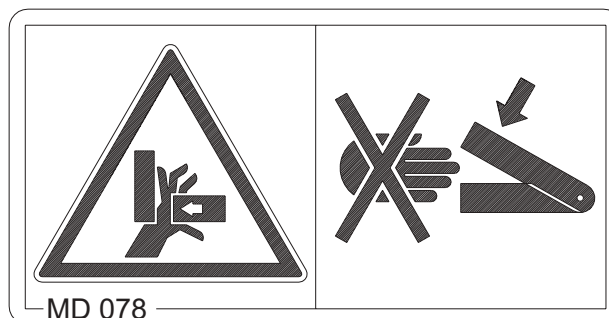
Before commencing operation read thoroughly operators manual and safety advice.

**Picture No MD 089****Explanation:**

Never stay under a lifted implement (unsecured load)!.!

**Picture No.: MD 078****Explanation:**

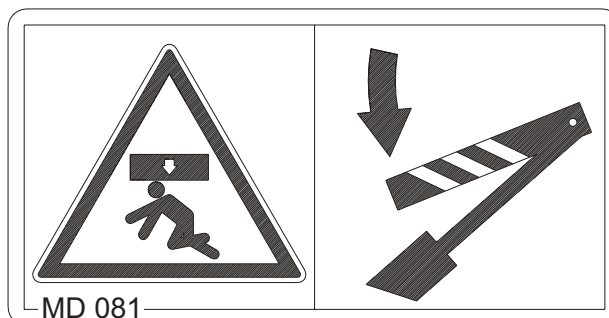
Never reach into the zone. There is danger of bruising as long as parts are still moving!

**Picture No.: MD 084****Explanation:**

Never stay within the swivel area of the machine!

**Picture No.: MD 081****Explanation:**

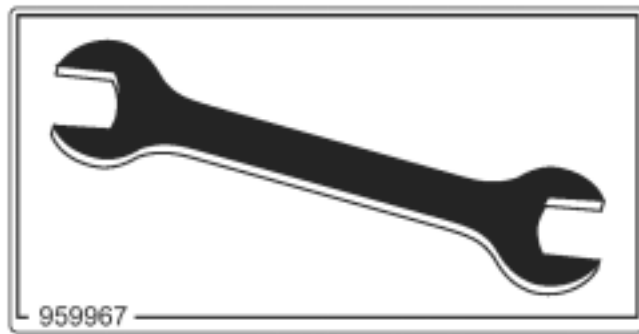
Staying in the danger area is only permissible with activated lifting ram safety advice!



**Picture No.: 959967**

**Explanation:**

Regularly check nuts and bolts for tightness. Retighten if necessary.





## 2.5 Safety conscious operation

Besides the safety advice in this instruction manual additionally, the national, and generally valid operation safety and accident prevention advice of the authorised trade association are binding, especially VSG 3.1.

Adhere to the safety advice on the decals on the machine.

When travelling on public roads observe the traffic regulations in force in your country.

## 2.6 General safety and accident prevention advice

### Basic principle:

Always check traffic and operational safety before putting the machine to operation.

1. Adhere to the general rules of health- and safety precautions besides the advice in this instruction manual.
2. Always check traffic and operational safety of tractor and implement before putting the machine to operation.
3. The responsible manager is bound to familiarise the operator with the implement and to make available the instruction manual to him.
4. The fitted warning- and advising decals give important hints for a safe operation; adhering to them protects your own safety.
5. When making use of public roads adhere to applicable traffic rules.
6. Become acquainted with the machines controls and functions before beginning the operation. Doing this during operation would be too late.
7. The operator should wear close-fitting clothes. Avoid wearing loose-fitting clothes.
8. Avoid danger of fire by keeping the machine clean.
9. Before beginning to move, check surrounding area (children etc.). Ensure sufficient visibility.
10. Carrying passengers whilst driving or operating the machine is not permitted.
11. Always attach weights correctly to the mounting points provided.
12. Observe the permissible axle loads, total weights and transport dimensions.
13. Ensure that the outer transport dimensions correspond to your national traffic law.
14. Check and install any transport equipment such as lighting, warning devices and any safety advice.
15. Release cables for quick hitches should hang freely and must not work loose from their housings.
16. Do not leave the driving position at any time whilst driving.
17. Standing in the operating area is prohibited.
18. Do not stand near rotating and swivelling parts of the machine.
19. Hydraulic folding frames must only be activated after making sure no-one is standing near the machine.
20. Squeeze and shear points are found on externally activated components (e.g. hydraulics).
21. Allow nobody to stand between tractor and implement if the tractor is not secured against rolling away by the parking brake and/or by the chocks.
22. Lock booms in transport position.

### 2.6.1 Tractor mounted / trailed implements

1. Attach implements as advised and only to the attachment points provided.
2. Special care should be taken when the implement is coupled to or off the tractor.
3. When attaching or removing the machine bring the supporting devices into the corresponding position (standing safety).
4. When fitting to the three point linkage the mounting categories at the tractor and the implement must implicitly coincide.
5. Use the pulling bar to mount the implement to the tractor's three point hydraulics.
6. Driving, steering and braking abilities are influenced by mounted or suspended equipment and ballast weights. Therefore, check sufficient steerage and braking.
7. When lifting a three point implement the front axle load of the tractor is reduced depending on its size. The sufficient front axle load (20 % of the tractor net weight) has to be maintained).
8. When driving around bends note the width of the machine and/or the changing centre of gravity of the implement.
9. Start operating implements only when all guards have been fitted in guarding position.
10. Before leaving the tractor seat lower the machine to the ground. Actuate the parking brake, stop the engine and remove ignition key.

## 2.7 Safety advice hydraulic system

1. The hydraulic system is under high pressure.
2. Connect hydraulic hoses to the hydraulic rams and motors according to the advice in the instructions.
3. When fitting the hydraulic hoses to the tractor hydraulic sockets always ensure that the hydraulic system on the tractor as well as on the implement is without pressure.
4. To avoid wrong hydraulic connection, sockets and plugs should be marked (e. g. colour coded). This helps to prevent contrary function (lifting instead of lowering or vice versa) and reduces the danger of accident.
5. All hydraulic hoses must be checked for their operational safety by a skilled person before the first operation of the machine.
6. Check hydraulic hoses regularly. In case of damage or ageing replace the hydraulic hoses! The replacement hoses must correspond to the technical demands of the implement manufacturer.
7. The period of use of any hose circuit should not exceed six years including a possible storing period of two years maximum. Also when stored and used properly hoses and hose circuits do age. Therefore their longevity and period of use is limited. Deviations from the above may be accepted by the Health- and Safety Authorities depending on the experience they have had and the danger potential. For hoses and hose circuits made of thermoplasts other guide lines may prevail.
8. Before starting to do repair work to the hydraulic system release the pressure and stop tractor engine.
9. When searching for leaks appropriate aids should be used because of the danger of injury.
10. Liquids leaking under high pressure (hydraulic oil) can penetrate the skin and cause severe injury.



**When injured see a doctor immediately.  
Danger of infection!**

## 2.8 General safety and accident prevention advice for maintenance, repair and cleaning



**Climbing on the implement for maintenance, cleaning or other work with or without aids is prohibited. Danger of accident.**

1. Standing underneath the lifted unsecured implement is prohibited. Keep a safe distance from moving disc segments (except for the operator himself).
2. Repair-, maintenance- and cleaning operations as well as the remedy of function faults should principally be conducted with drive and engine stopped. Remove ignition key.
3. Wear a helmet whilst cleaning and repairing the implement.
4. Check nuts and bolts for tightness and retighten if necessary.
5. Tighten all fixing bolts and nuts according to the advice of the manufacturer.
6. Before conducting electric welding operations on tractor or on the mounted implement, remove cable from generator and battery.
7. Change wheels (running gear) only when the implement is in its operational position.).
8. When servicing a raised unit always ensure it is secured by suitable supports.
9. When replacing work tools with cutting edges use a suitable implement and wear gloves.
10. Any spare parts fitted must, as a minimum meet with the implement manufacturers' fixed technical standards. Using **Original-BBG-spare parts** for example ensures this.
11. In care of repainting, replace the warning hints.



## 2.9 Transport on public roads



**Please observe the following hints. They help to prevent accidents in public road traffic.**

1. When travelling with lifted implement ensure that the control is locked to avoid unintended lowering.
2. In the transport position of the implement ensure that the tractor three point linkage is locked against movement to the sides.
3. Danger of injury from protruding discs in transport position.
4. During transport the valve on the draw bar must be set to the "end position" and the swivelling hydraulic must not be actuated.
5. The release ropes for quick coupler should hang freely and in the lowered position must not release by themselves.
6. The transport width must not exceed 3 m.
7. For implements with a transport width of more than 3.0 m apply for an authorisation if necessary.
8. Tractor and implements have to correspond to the national road transport and traffic rules.
9. Attach traffic lights, warning plated and guards and check for proper function.
10. If the prescribed traffic lights of the tractor are hidden by the implement they will have to be repeated on the implement. As always the latest edition of the national traffic regulations is valid, please verify them at your local traffic office. Both the vehicle owner and the operator are responsible for the proper functioning of the traffic lights.
11. Check traffic lights for function.
12. Apply warning plated according to DIN 11030 or parking warning plates at the front and the rear on the right and left hand side.
13. The distance between warning plate upper edge and ground must not exceed 1.50 m. The warning plates should be fixed with a max. distance towards the outer edge of the implement of 10 cm.
14. When driving on slopes (with the machine in transport position) the inclination must not exceed 20 %. When operating the implement on slopes the max. possible slope inclination corresponds to that possible for the tractor. Do not fold the roller frame on slopes.
15. Backing up in transport position is only allowed when a person is available who will direct the driver. Please adhere to your national traffic laws.

## 2.10 Combination of tractor and mounted implement



When mounting implements to the front- or rear three point linkage the permissible total weight, the permissible axle loads and the load capacity of the tyres must not be exceeded. The sufficient front axle load (20 % of the tractor net weight) has to be observed.



Before purchasing the implement ensure that these pre-conditions are fulfilled by weighing the tractor-implement combination or by making the following calculations.

### 2.10.1 Determination of the total weight, the axle loads and the load capacity of the tyres as well as of the minimum ballast

For the calculation you need the following data:

$T_L$  [kg]: Net weight of the tractor ❶

$T_V$  [kg]: Front axle load of the empty tractor ❶

$T_H$  [kg]: Rear axle load of the empty tractor ❶

$G_H$  [kg]: Total weight rear mounted implement / rear ballast ❷

$G_V$  [kg]: Total weight front mounted implement / front ballast ❷

$a$  [m]: Spacing between point of gravity front mounted implement / front ballast and centre of front axle ❷❸

$b$  [m]: Wheel base of tractor ❶❸

$c$  [m]: Spacing between centre of rear axle and centre of lower link ball ❶❸

$d$  [m]: Spacing between centre lower link ball and point of gravity rear mounted implement/rear ballast ❷❹

❶ Please refer to the instruction manual for the tractor.

❷ Please refer to price list

❸ Measure

❹ Please refer to technical data.

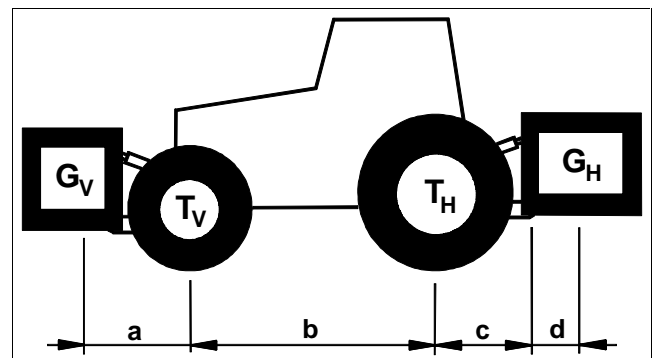


Fig. 1



### Rear mounted implement or front –rear mount combinations:

#### 1) Calculation of the minimum ballast front $G_{V \min}$ :

$$G_{V \min} = \frac{G_H \cdot (c + d) - T_V \cdot b + 0,2 \cdot T_L \cdot b}{a + b}$$

Enter into the table the minimum ballast required for the tractor front.

#### 2) Calculation of the actual front axle load $T_{V \text{ tat}}$ :

(If the necessary minimum ballast front ( $G_{V \min}$ ) is not achieved with the front mounted implement ( $G_V$ ), increase the weight of the front mounted implement up to the weight of the minimum ballast front.)

$$T_{V \text{ tat}} = \frac{G_V \cdot (a + b) + T_V \cdot b - G_H \cdot (c + d)}{b}$$

Enter into the table the calculated actual front axle load and the permissible axle load indicated in the instruction manual of the tractor.

#### 3) Calculation of the actual total weight $G_{\text{tat}}$

(If the minimum rear ballast ( $G_{H \min}$ ) is not achieved with the rear mounted implement ( $G_H$ ), increase the weight of the rear mounted implement up to the minimum ballast.)

$$G_{\text{tat}} = G_V + T_L + G_H$$

Enter into the table the calculated actual total weight and the total weight indicated in the instruction manual of the tractor.

#### 4) Calculation of the actual rear axle load $T_{H \text{ tat}}$

$$T_{H \text{ tat}} = G_{\text{tat}} - T_{V \text{ tat}}$$

Enter into the table the calculated actual rear axle load and the rear axle load indicated in the instruction manual of the tractor.

#### 5) Tyre load capacity

Enter into the table double the value (two tyres) of the permissible tyre load capacity (please refer e.g. to the files of the tyre manufacturer).

TABLE	Actual value according to calculation	Permissible value according to instruction manual	Double permissible tyre load capacity (two tyres)
Minimum ballast Front / rear	<div style="border: 1px solid black; width: 150px; height: 40px; display: flex; align-items: center; justify-content: center;">/ kg</div>	---	---
Total weight	<div style="border: 1px solid black; width: 150px; height: 40px; display: flex; align-items: center; justify-content: center;">kg</div> ≤	<div style="border: 1px solid black; width: 150px; height: 40px; display: flex; align-items: center; justify-content: center;">kg</div>	---
Front axle load	<div style="border: 1px solid black; width: 150px; height: 40px; display: flex; align-items: center; justify-content: center;">kg</div> ≤	<div style="border: 1px solid black; width: 150px; height: 40px; display: flex; align-items: center; justify-content: center;">kg</div> ≤	<div style="border: 1px solid black; width: 150px; height: 40px; display: flex; align-items: center; justify-content: center;">kg</div>
Rear axle load	<div style="border: 1px solid black; width: 150px; height: 40px; display: flex; align-items: center; justify-content: center;">kg</div> ≤	<div style="border: 1px solid black; width: 150px; height: 40px; display: flex; align-items: center; justify-content: center;">kg</div> ≤	<div style="border: 1px solid black; width: 150px; height: 40px; display: flex; align-items: center; justify-content: center;">kg</div>

**The minimum ballast must be attached to the tractor by means of a mounted implement or a ballast weight.**

The calculated values should be smaller than / equal ( $\leq$ ) the permissible values.



### 3. Description of product

The **AMAZONE-BBG** tractor mounted disc cultivator **Pegasus** is usable for stubble tilth, the basic soil cultivation and the seed bed preparation in all conditions.

**Pegasus SG 3002** and **SG 4002** in working widths of 3 or 4 m are equipped with a rigid frame (Fig. 2).

The types **SG 4003-2**, **SG 5003-2** and **SG 6003-2** in working widths of 4, 5 or 6m are equipped with a foldable frame (Fig. 3).

The winged tines (Fig. 2/1) crush, eradicate and intensively mix the soil across the field. The concave discs mounted in a staggered pattern (Fig. 2/2) level, mix and crumble soil and plants.

The support rollers re-compact and crumble the soil.

For the folding procedure one double acting spool valve is required on the tractor.



Fig. 2

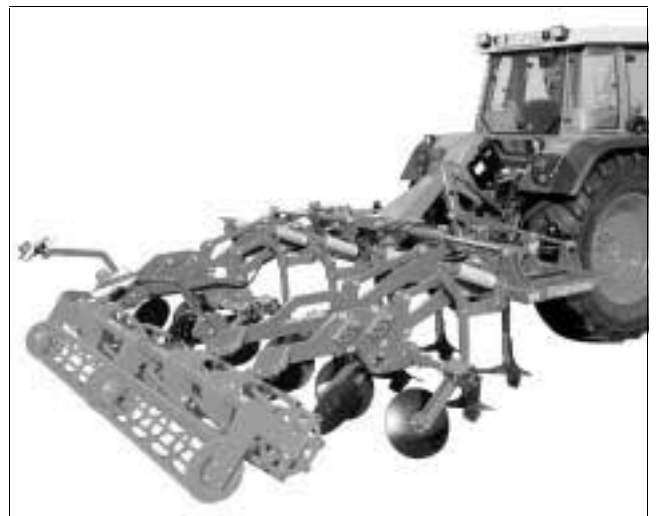


Fig. 3

The winged tines are protected from damage by a pressure spring overload safety (Fig. 4/1) or shear pins (Fig. 5/1).

To protect the discs against damage, the implement is provided with an overload safety with rubber spring elements (Fig. 6/2). The rubber spring elements ensure that after passing the obstacle the discs always return to their working position.

Depth guidance via the rear roller by re-inserting the **AMAZONE**-square eccentric pin (Fig. 5/2, Fig. 6/1).



Fig. 4



Fig. 5

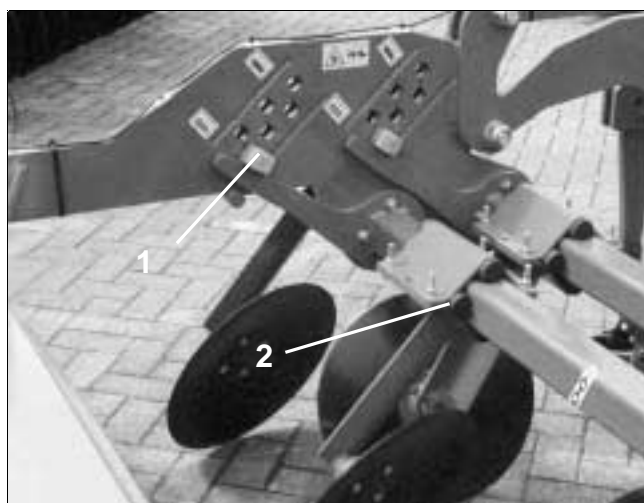


Fig. 6

#### **4. On receipt of the machine**

When receiving the machine check that no damage has been caused in transit and all parts are present. Only with the immediate reporting of damage towards the forwarder will be considered for compensation.

Please check whether all parts for the mounted disc harrow incl. the ordered special options mentioned in the delivery note are present.

Before commencing work, remove all packing material incl. wire etc.

## 5. Mounting and dismounting



When mounting and dismounting the implement adhere to the safety advice.



Mount the implement in the appropriate manner to the prescribed fixing points.



Special care should be taken when coupling the implement to or off the tractor.



When mounting or dismounting the implement bring the support stands into the proper position (standing stability).

### 5.1 Mounting to the tractor



Observe the max. axle load of your tractor.



The lower link arms of the tractor's three point hydraulic must be provided with stabilising brackets or chains. Brace the lower link arms of the tractor to prevent the implement from swaying to and fro.



CATROS is designed for the rear three point linkage cat. II and III.



When mounting the implement to the rear three point linkage cat. III never use cat. II pins.

- Mount the lower link arms of the tractor to the lower coupling points of the machine using lower link pins and secure using clip pins.
- Use the upper link pin to mount the upper link of the tractor to the upper coupling point of the implement and secure using a clip pin.
- Attach the double acting hydraulic connection (red marked hoses) for folding in and out.
- Plug in the traffic lights.
- Lift the implement until it is in a level position, i.e. its frame should be in alignment with the ground.

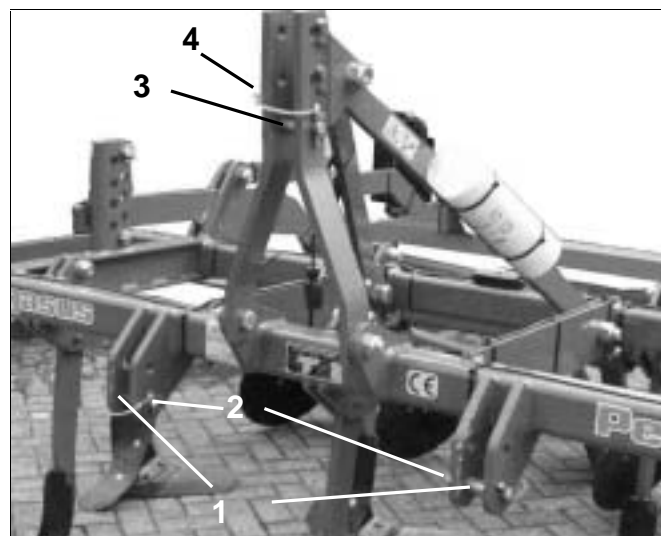


Fig. 7

### 5.2 Dismounting

- Lower the implement until it rests on its discs/rollers.



**Prior to parking and lowering the mounted disc harrow place planks underneath the mounted discs. If you store the implement for a prolonged time, apply anti corrosive protective paint.**



**Before dismounting the disc harrow ensure that the coupling points (upper and lower link) are relieved.**

- Insert the hydraulic hoses in the provided retainers.



**When it is intended to park hydraulically foldable implements ensure that they are in folded out position.**



## 6. On the route to the field – Transport on public roads and ways



When travelling on public roads and ways tractor and implement have to correspond to the national road transport and traffic rules.



The vehicle owner and operator are responsible for adhering to the legal traffic rules.



Before travelling with the implement in transport position check all traffic safety devices for proper function and attach the relevant options (e.g. protective canvas on all four disc gangs).



Agricultural and forestry implements should be provided with traffic light and warning places according to the national legal traffic rules.



The traffic lights must correspond to the national legal traffic rules.



Check traffic lights for proper function.



When transporting mounted implements the traffic lights of the tractor must not be hidden.



The transport width of 3 m should not be exceeded. Fold in roller segments.



Before travelling on public roads with a lifted implement lock the control lever against unintended lowering.



In transport position always take care for a sufficient lateral locking of the tractor's three-point.



Slide in the outer side discs.

## 6.1 Transport and operational position



Before the folding procedure lift the implement until a sufficient ground clearance within the operational range of the operating tools is achieved.

**Note:**

If necessary equally shorten the lifting arm spindles on both sides.



Set the implement at the lifting arm spindles and the tractor's upper linkage so that during operation the frame is always parallel to the soil surface in longitudinal and lateral direction.



Advise people to leave the danger area as the implement may tip over to the rear if the lower link halves are by accident twisted apart or tear apart.



When folding out observe that both implement sides are folded down until their stop position.

**Note:**

Due to the volume divider there might be a delay until the final position of the second ram has been reached. – Keep the lever on the control valve in position "lowering" until the outer frames are in alignment with the centre part.



Fig. 8



Fig. 9

### Conversion from operating into transport position

- Lift the implement, ensure a level parking ground.
- Clean the outer tools.
- Gently lift the implement until the ground clearance allows an unhindered folding of the side parts.
  - Slacken clip pin. (Fig. 9/1).
  - Retighten bolt (Fig. 9/2).
  - Pull out the outer concave discs.
  - Plug in bolts and fix clip pin.
- Lift the implement so that the ground clearance allows the unhindered folding.
- Fold in the implement.
- Clean centre tools.
- Apply traffic light kit and swivel them into the transport position.
- Clean traffic light kit.
- Lift the implement until sufficient ground clearance is reached.

## 7. Settings

### 7.1 Setting the depth of eccentric pin



**The implement is in the raised position**

The height adjustable rear mounted roller provides the accurate depth guidance. The resetting and/or twisting of the so-called eccentric pins allow a nearly infinitely variable setting of the working depth.

Reset the eccentric pin upwards to increase the working depth of the discs on the lowered implement.

Reset the eccentric pin downwards to reduce the working depth of the discs on the lowered implement.

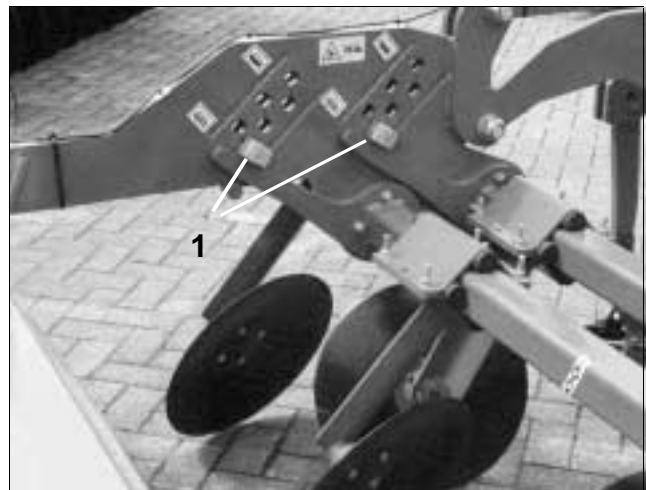
The fine tuning of the working depth is achieved by turning the eccentric pin of position 1 (shallow) up to position 4 (deep).



**The chosen setting holes must coincide. The stops of the eccentric pins should also coincide regarding their numbers.**

### 7.2 Setting the depth of the concave discs

- Slacken clip pin.
- Insert the eccentric (Fig. 10/1) in higher/lower and/or turn.
- Retighten clip pin.



**Fig. 10**



## 7.3 Setting the working depth of the wing shears

- Slacken clip pin.
- Insert the eccentric (Fig. 11/1) in higher/lower and/or turn.
- Retighten clip pin.



If the winged tines are not pulled in sufficiently insert the eccentric (Fig. 11/2) downwards (directly above the roller linking) (Fig. 11/3). This way the winged tines are additionally burdened by the roller.

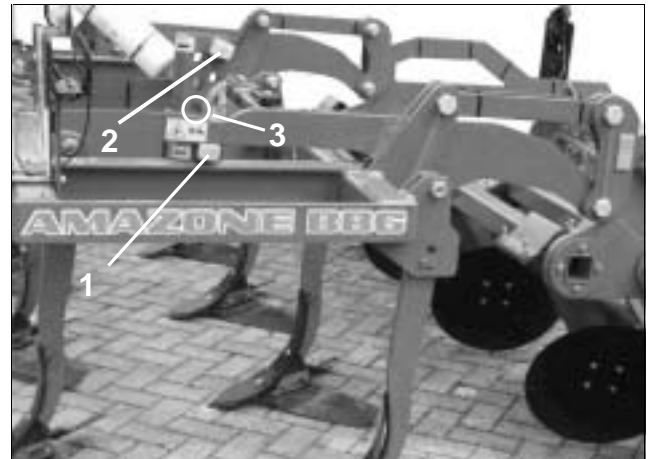


Fig. 11

## 7.4 Setting the angle of the winged tines

### Tines with spring pressure overload safety.

The angle of the winged tines can be set in 2 positions by turning the eccentric pin (Fig. 12/1) by 180°.

- Slacken the fixing nut of the eccentric pin.
- Pull out the eccentric pin so that it can be easily moved.
- Turn the eccentric pin by 180°.
- Tighten fixing nuts.

The punch mark on the facing of the eccentric pin shows the position which has been set.

### Tines with shear bolt safety

By re-inserting the shear pin the angle of the winged tines can be set in 2 positions.

- a shallow angle
- b steep angle
- Slacken the fixing nut of the shear pin (Fig. 13/1).
- Pull shear pin and re-insert into the free hole.
- Tighten the fixing nut of the shear pin.



When replacing a damaged shear pin observe the correct bolt size and ensure that they are of first quality.

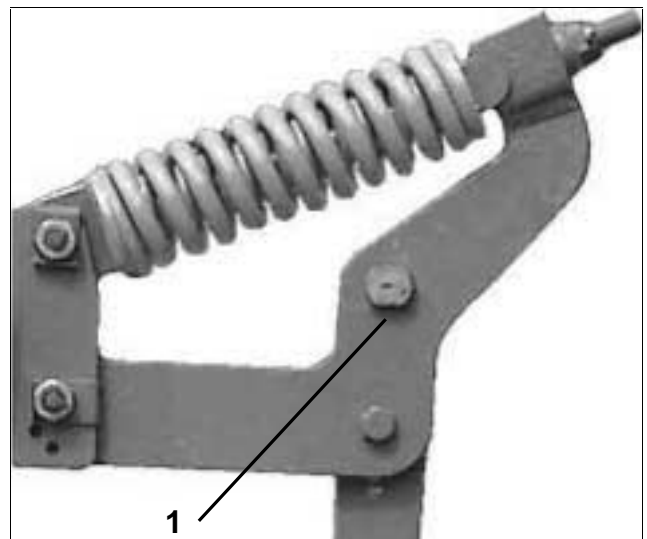


Fig. 12

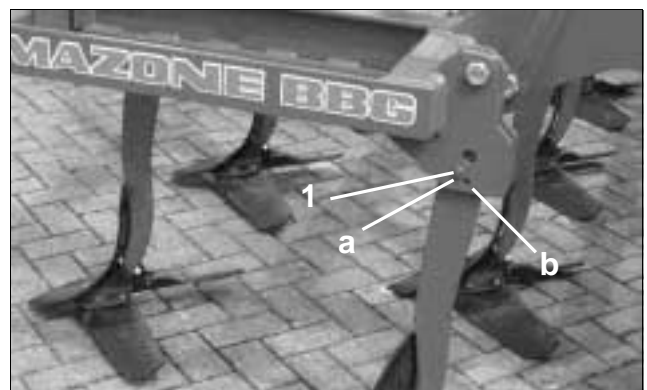


Fig. 13

## 8. Operation

The mounted disc harrow Pegasus should be preferably used in the floating position of the tractor rear three point. The depth guidance is provided by the following roller.

The operational control in the field is only necessary for lifting and lowering the implement at the headlands.



**Set the implement at the lifting arm spindles and the tractor's upper linkage so that during operation the frame is always parallel to the soil surface in longitudinal and lateral direction.**



Fig. 14

### 8.1 Telescopic side discs

Before starting to operate pull out the telescopic side discs into the operating position.

- Slacken clip pin (Fig. 15/1).
- Pull pin (Fig. 15/2).
- Pull out the outer concave discs.
- Plug in bolts and fix clip pin.



Fig. 15

### 8.2 Driving at the headlands

When driving curves at the headlands raise the implement to avoid a transverse load of the tools.



**When driving narrow curves in the headlands lift the implement.**



**At the headlands only lower the implement into operational position when the implement and operational direction coincide.**

## 9. Cleaning, maintenance and repair



Repair-, maintenance- and cleaning operations as well as the remedy of function faults should principally be conducted with drive and engine stopped. Remove ignition key.



Before conducting electric welding operations on tractor or mounted implement remove cable from tractor and battery.



Check traffic lights for proper function.



When dismantling spring loaded elements (disc segments) mind the pre-tensioning. Use appropriate tools.

For mounting and dismantling use additional the longer screws (Fig. 16).

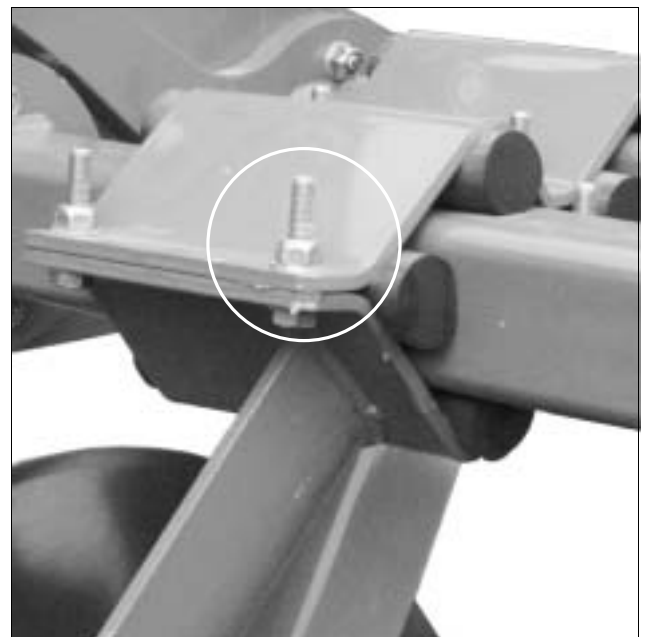


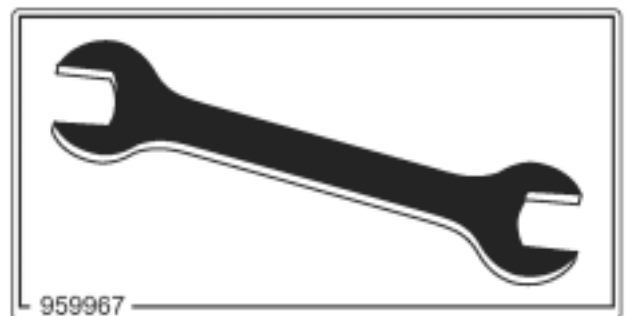
Fig. 16



Regularly check nuts and bolts for tightness. Retighten if necessary.



When replacing a damaged shear pin observe the correct bolt size and ensure that they are of first quality.



## 9.1 Lubricant review

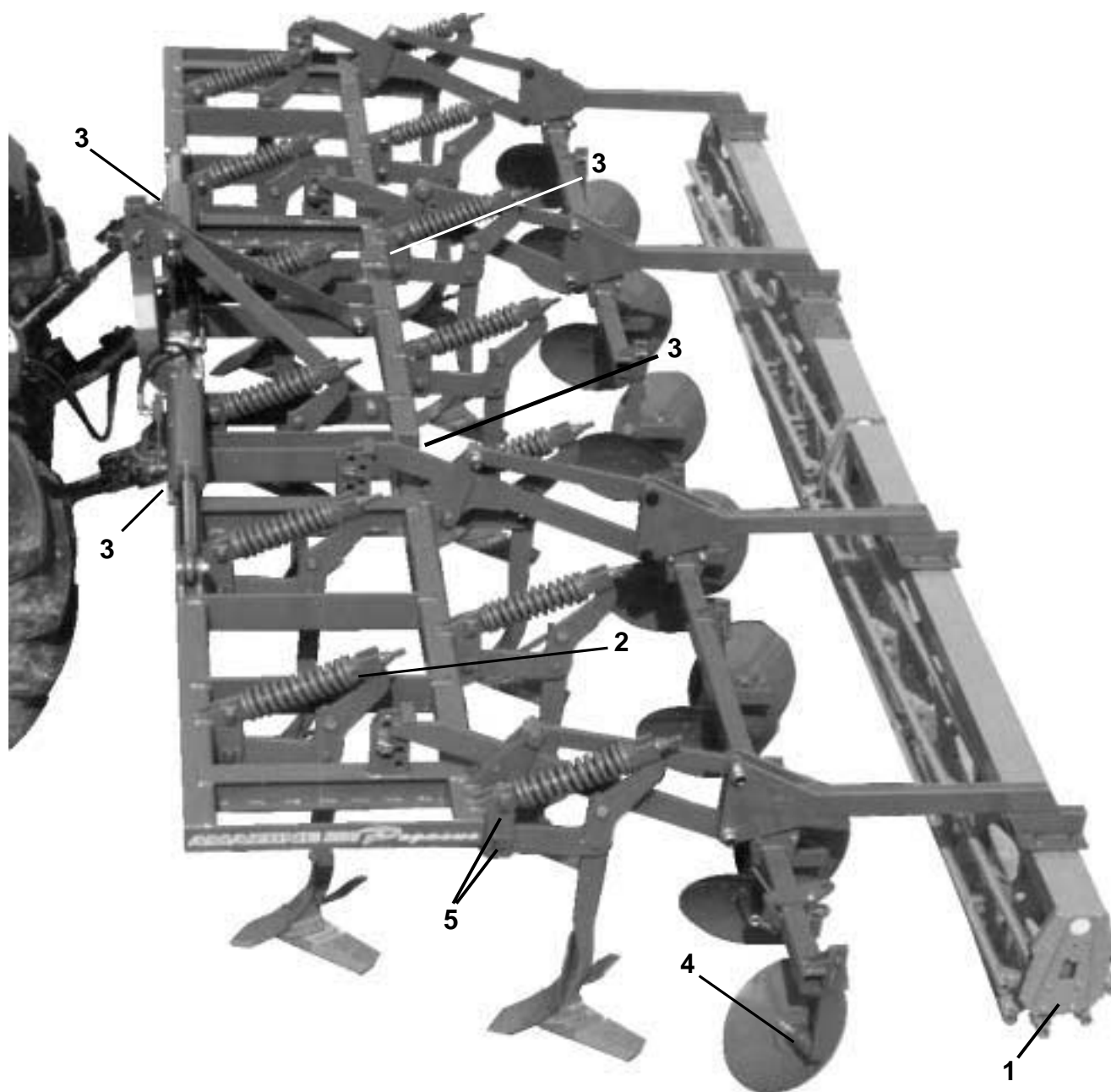


Fig. 17

No.	Description	Greasing interval after hours of operation	Type of lubricant
1	Flange bearing for the roller	100	SWA 532
2	Setting crank of the stone safety release	200	SWA 532
3	Joint bearings centre part r.h. and l.h *	100	SWA 532
4	Bearing / concave discs	100	SWA 532
5	Linking points of the opener tools	100	SWA 532

\* Folding mounted disc cultivator

## 9.2 Hydraulic hoses

Hydraulic hoses When starting and during operation the ordinary condition of the hoses should be checked by a skilled person.

If hoses are found defective in any way, exchange them immediately.

The maintenance of the checking intervals should be recorded by the operator.

### Checking intervals

- For the first time when putting to operation
- Thereafter at least once a year

### Checking points

- Check hose casing for damage (kinks, cuts and abrasion, trapping, rubbing points)
- Check whether the hose casing is brittle
- Check hose for deformation (bubbles, buckling, squeezing, separation of layers)
- Check for leakages
- Check the appropriate fitting of the hoses
- Check the hose for firm seating in the armature
- Check connecting armature for damage and deformation
- Check for corrosion between connecting armature and hose
- Do not exceed the permissible period of use.

### 9.2.1 Exchange intervals

- The period of use of any hydraulic hose circuit should not exceed 6 years (including a possible storing period of two years maximum).

### 9.2.2 Marking

Hydraulic hoses are marked as follows:

- Name of the manufacturer
- Date of production
- Maximum dynamic operational pressure

### 9.2.3 Please observe when fitting and removing

Affix the hydraulic hoses on the fixing points given by the manufacturer.

- Always ensure that hydraulic parts and connections are clean.
- The hoses have to be fitted in such a way that their natural placement and movement are not hindered.
- During operation the hoses should not be under tension, twisted or strained by external forces.
- The permissible bending radius must be observed.
- The hoses should not be painted.



## **10. Special optional equipment**

### **10.1 Side discs**

1 Pair

**Order-no.:** 78400092

### **10.2 Traffic light kit**

**Order-no.:** 1239007





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