

Instruction manual



Type: BRS/

PLANTLIFTER

Machines for horticulture and tree cultivation

BASRIJS BV

Publisher: Basrijs B.V.
Edition: 2015

This manual for the plantlifter was written in Dutch by BASRIJS B.V. If this publication is in a language other than Dutch, it is a translation of the original Dutch-language manual. Translation can lead to differences in the interpretation of the content and meaning of the text.

In the event of a dispute, the original Dutch-language instructions will be considered the only authoritative source for determining the content and the meaning of the text.

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first edition

PLANTLIFTER

INTRODUCTION

INTRODUCTION

This manual explains how to use the plantlifter, carry out user maintenance and perform troubleshooting. It also includes warnings and safety instructions intended to ensure safe use.

Read this manual carefully before using the machine for the first time. If you have any questions or if anything is unclear, please contact BASRIJS B.V.

Keep this manual with the machine. You can order an additional manual from BASRIJS B.V.

This manual is an integral part of the machine. If the machine is transferred to another user, it must be accompanied by this manual.

The operators of the machine must be adult persons who have been sufficiently instructed and have adequate work experience that enables them to understand how to operate the machine and use it safely.

You are only permitted to perform work on the machine that is described in this manual. Work that is not described in this manual may only be performed by employees of BASRIJS B.V. or by its authorised agents.

When the terms 'left side' and 'right side' are used in this manual, they are used from the perspective of the driver as he/she is looking straight ahead.

PLANTLIFTER

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1 DESCRIPTION

Intended use

The Basrijs plantlifter is designed for lifting leeks, carrots, strawberry plants, trees and bulbs.

Standard machine

The Basrijs plantlifter is build out of a frame with three-point linkage, a fixed knife or movable blade followed by one or two vibrating grates. The movable parts are driven by the pto of the tractor.

Options

Available versions: single, double are moveable blade and also available with disc coulters.

Accessories

This instruction manual.

2 TECHNICAL DATA

Machine

Plantlifter

Dimensions

140 X 150 X 130 CM (Type BRS\D135)

Passageway through crops

70 cm

Total weight

Approx. 250 Kg

Requisite power

Approx. 35 KW (45 hp)

Track width

150 cm

PLANTLIFTER

TECHNICAL DATA

Indications on the machine



1. Type plate.
2. Read manual and comply with safety instructions.
3. Check the bolt and nut connections regularly.
4. Maximum drive speed.

Applied directives and standards

This machine is provided with CE Marking. This shows that the machine complies with the applicable European directives pertaining to health and safety. The applied standards are listed in the EC Declaration of Conformity.

3 WARNINGS AND SAFETY INSTRUCTIONS

Warnings and safety symbols

This manual contains warnings and safety instructions. Do not ignore them, as they are aimed at protecting your health and safety.



DANGER

When the warning symbol with the text DANGER is shown, information is provided that is of great importance for the safety of everyone concerned. Failure to comply with the information can result in (serious) injury or possibly even death.



WARNING

When the warning symbol with the text WARNING is shown, information is provided that is of great importance for everyone concerned and the machine. Failure to comply with the information can result in injury or (severe) damage to the machine.



CAUTION

When the warning symbol with the text CAUTION is shown, information is provided about a potential danger. Failure to comply with the information can result in less severe injury or less severe damage to the machine.

The machine complies with the European Machinery Directive. However, this does not exclude the possibility of accidents if the machine is not used properly.

PLANTLIFTER

WARNINGS AND SAFETY INSTRUCTIONS

General safety instructions

Only use the machine for its intended purpose.

The tractor to which the machine is attached must have the prescribed driving and lifting capacity.

The machine may only be operated and maintained by persons who are familiar with it and are aware of the dangers of working with it.

The operators and maintenance personnel must comply with the regulations for accident prevention and general safety regulations.

The operators on the machine must not wear any loose hanging clothing. Long hair must be tied back.

Comply with the statutory road traffic regulations during transport on public roads.

No passengers or goods may be transported on the machine when driving on roads.

Special care must be taken when connecting the machine. There is a danger of crushing in the area around the tractor's lift arms.

Secure the securing pins with the locking pins.

The tractor's parking brake must be engaged while the machine is being connected and disconnected.

When the machine is being disconnected, make sure it is placed on a flat, stable surface.

It is prohibited to work with the machine if protective components are missing or damaged.

Keep bystanders at a safe distance during the work.

Make sure that visibility is good while working with the machine.

Make sure there are no persons around the tractor/machine when driving from a standstill.

Make sure no one is behind the machine before driving in reverse.

When working on an incline, make sure the stability limit is not exceeded.

Maintain the machine in accordance with the maintenance instructions.

It is not permitted to make modifications to the machine without written permission from Basrijs.

Basrijs expressly rejects all liability if the machine is modified without its written permission.

You are only permitted to perform the operations and activities described in this manual.

End of service life

If the machine is dismantled at the end of its service life, this must be done in full compliance with the regulations for waste processing that apply at that time and at the location where the dismantlement takes place.

The machine is made from standard materials.

At the time of manufacture, there were waste processing procedures available for these materials.

There were no special risks known for persons carrying out dismantling activities.

4 WARRANTY CONDITIONS

Once the payment obligation has been fulfilled, the manufacturer provides the first buyer with a warranty that relates to the technology available at that time and that covers defects in materials and workmanship for a period of one year. The warranty period begins upon initial delivery of the machine. The warranty expires immediately when the machine is resold.

Failure of the seller to follow the manufacturer's instructions on how to handle the machine or failure to perform the mandatory checks, regular maintenance and inspections will invalidate the warranty.

Warranty repairs will only be performed if the machine is clean when it is brought to the service facility.

Transport costs, such as towing or call-out charges, will not be reimbursed by the manufacturer. Call-out charges will be billed at cost price.

The warranty does not cover the following:

- failure of parts due to normal wear and tear
- damage caused by incorrect use and adjustment
- damage caused by lack of maintenance
- damage caused by incorrect storage and transport
- parts or power units that become defective because the permitted axle load, total weight, drive torque and/or drive power have been exceeded
- consequential damage resulting from external influences or exposure to water
- rust damage that is a consequence of external influences or exposure to water.

Warranty claims will not be honoured if it is determined that:

- the manufacturer's operating and maintenance instructions have not been followed
- consumables and lubricants have been used or parts have been installed that do not meet the manufacturer's specifications
- modifications have been made to the machine without the manufacturer's permission
- the delivered machine was not used in accordance with its intended purpose.

The warranty does not cover anything beyond what is specified here, and expressly does not apply in situations in which parts have been modified or removed.

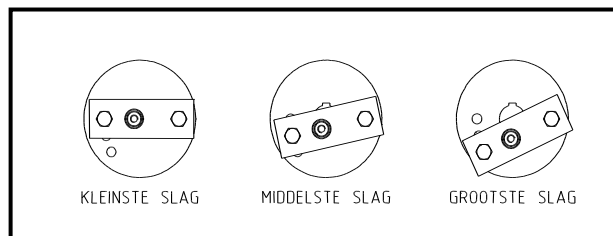
5 PREPARATION AND USE

Adjusting the plantlifter

Mechanism for adapting beat of the vibrating grates.

Excentric mechanism

When you remove the guard at the plantlifter you'll find an excentric mechanism, eather on one or on both sides which is connected with a the drive bar to a vibrating grate. This mechanism can adjust in 3 positions; small, mid and big. You adjust with key 19 (look at the picture). Always fasten the screws, bolts for tightness.



Drive bar

The length of the drive bar can be adapted in 3 positions: short, mid and long. To have the right movement of the vibrating grate there is for every position of the excentric mechanism a combined length of the drive bar.

Small beat (Kleinste slag) : longest length of drive bar.

Mid beat (Middelste slag) : mid length drive of drive bar.

Biggest beat (Grootste slag) : shortest length of drive bar.

With key 19 you can adjust the length of the drive bar yourself. Always fasten the screws, bolts for tightness.



Always check by turning pto shaft by habd that the vibrating grates do not touch somewhere (there is a combination of positions which will damage the machine). If you can not turn the pto by hand, then check and adapt the length of the drive bar(s).

Upper lift arm of tractor

By adapting the length of the upper lift arm of the tractor you can adapt the angle of the plantlifter;

Horizontal → plants will be standing up in the ground,

Tilt over → plants will be placed on top of the ground.

6 ATTACHING AND DISENGAGING THE MACHINE

Connecting three-point linkage

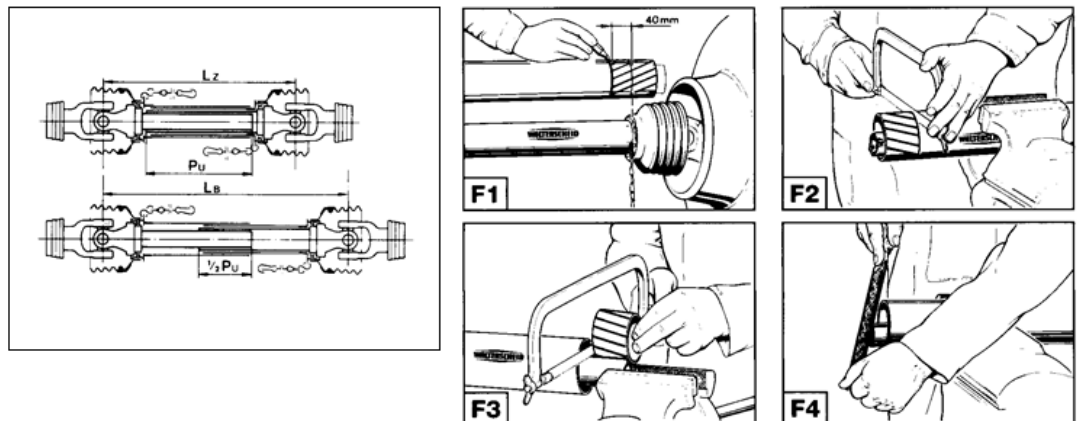
Connect the appliance with its three-point linkage with the tractor. The connection bolts are to be secured with the keys after connecting. Lift and secure the supports.

Attachment of PTO drive shaft

Attach the PTO drive shaft as indicated on its guard between the harvester and the tractor.

Try to obtain the greatest possible overlap. In its working position, the PTO drive shaft must not be extended by more than half the profile overlap available when fully compressed. When the length has to be adjusted both sides have to be shortened at the same length. To adjust the length, hold the halfshafts next to each other in the shortest working position and mark them. Shorten the guards 4 cm more than their overlap. Shorten sliding profiles as indicated by the mark. Round off all sharp edges and removes burrs. Grease sliding profiles.

(See figures F1 to F4 in the services instructions for Walterscheid PTO drive shafts).



7 USE

Starting lifting

1. Put plantlifter straight in front of the plantbed to be lifted.
2. Engage the pto (app. 450 RPM).
3. Lower the lift of the tractor.

➔ **ATTENTION! Never exceed PTO over 540 RPM !**



4. Choose depending of the circumstances a suitable gear (between 500 and 1500 meters per hour) and start driving forward
5. Adjust the right depth by the lift of the tractor.

Stopping lifting

1. Lift out the plantlifter by the lift of the tractor.
2. Put of the PTO of the tractor.

8 MAINTENANCE



DANGER

Maintenance work may only be performed on a machine that is properly supported on a flat, hard surface.

Check after first use

Check all the bolt connections.

Regular maintenance and inspection

1. Clean the machine after use.
2. Check the bolt and nut connections after 8 working hours.
3. Lubricate all the grease nipples after cleaning.

9 TROUBLESHOOTING

Problem	Cause	Solutions
PTO can not turn around. (After adapting beat of vibrating grate)	Length of drive bar is adapted to long.	Shorten length of drive bar by putting in another position.

10 ORDERING PARTS

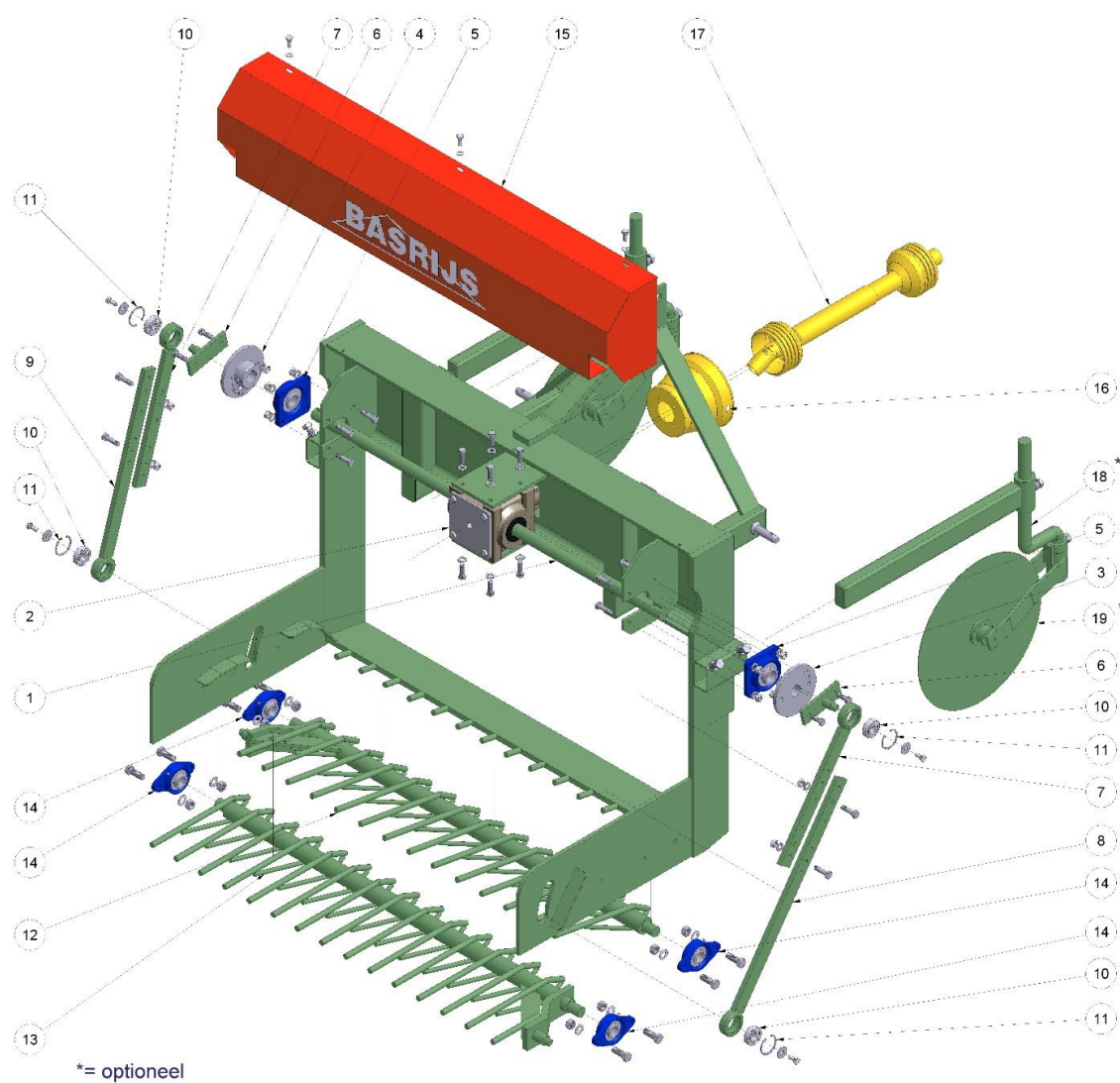
Only use original parts.

When ordering parts, please provide the machine type, serial number and year of manufacture.

Parts list

	Description	Partnumber
1	Drive shaft plantlifter	BRS\D135\1
2	Gearbox plantlifter	BRS\D135\2
3	Excentric disc right double	BRS\D135\3
4	Excentric disc left double	BRS\D135\4
5	Bearing block drive shaft	BRS\D135\5
6	Excentric plate	BRS\D135\6
7	Upper drive bar	BRS\D135\7
8	Lower drive bar right	BRS\D135\8
9	Lower drive bar left	BRS\D135\9
10	Bearing drive bar	BRS\D135\10
11	Circlip	BRS\D135\11
12	Vibrating grate front	BRS\D135\12
13	Vibrating grate rear	BRS\D135\13
14	Bearing vibrating grate	BRS\D135\14
15	Gard plantlifter	BRS\D135\15
16	PTO shaft gard	BRS\D135\16
17	PTO shaft plantlifter	BRS\D135\17
18	Disc coulter with support	BRS\D135\18
19	Disc coulter	BRS\D135\19

PLANTFILTER ORDERING PARTS



11 CE DECLARATION

CE DECLARATION OF CONFORMITY FOR MACHINES

Manufacturer: Basrijs B.V.
Address: Watermanseweg 2a
NL-4891 SZ RIJSBERGEN
The Netherlands

hereby declares that the machine with the following specifications:

Machine: Plantfilter
Brand: Basrijs
Type designation: BRS\
Serial number:
Year:

complies with the provisions of Machinery Directive 89/392 EEC with amendments 91/368 EEC and 93/44 EEC.

Signed in Rijsbergen, The Netherlands, on

BASRIJS B.V.
represented by the Managing Director of Basrijs Beheer B.V., on his behalf C.T.M. Bastiaansen.