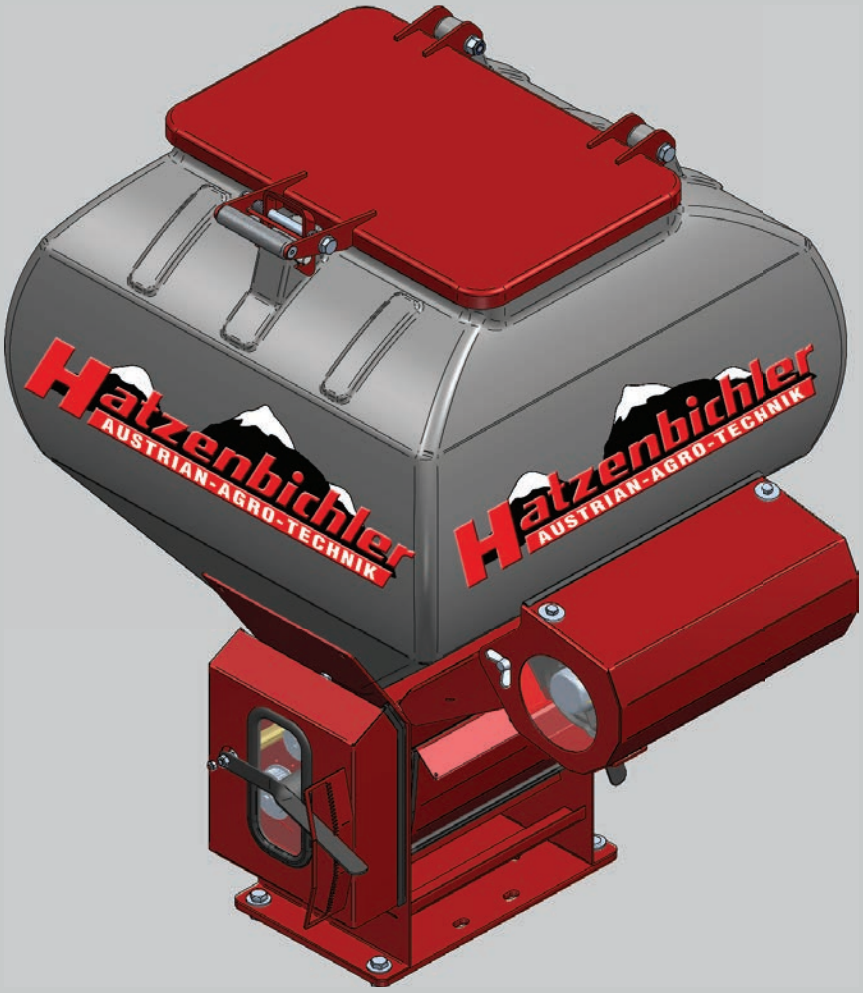
Manual
and
spare parts catalog

Pneumatic Seeder Air 8



Thomas Hatzenbichler Agro-Technik GmbH
Fischering 2, A-9433 St. Andrä
Tel: +43 (0) 4358/2287
Fax: +43 (0) 4358/2208
E-mail: agrotechnik@hatzenbichler.com

OPICO LIMITED
South Road, Bourne, Lincs, PE10 9LG
Tel.: 01778 / 42 11 11 – Fax: 01778 / 42 50 80
ask@opico.co.uk – www.opico.co.uk

2012

contents

EG Declaration of Conformity

The manufacturer: **Thomas Hatzenbichler**
Agro-Technik GmbH
Fischering 2
A-9433 St. Andrä
Phone: +43 (0) 4358/2287

declares that the following product:

Product: Pneumatic Seeder „Air 8“

Working width _____

Serial number: _____

Year of building _____

all relevant provisions of the Machinery Directive (2006/42/EC).

To properly implement the EG directives specified in the safety and health requirements of the following standards and / or specifications have been used.

DIN EN ISO 4254-1	Agricultural machinery - Safety - Part 1: General requirements
DIN EN ISO 12100	Safety of machinery - Basic concepts - Risk assessment and risk reduction
DIN EN 60204-1	Safety of machinery - Electrical equipment of machines Part 1: General requirements

Hatzenbichler AUSTRIA - AGRO - GROUP
THOMAS HATZENBICHLER
AGRO-TECHNIK GMBH
A-9433 ST.ANDRÄ i. LAV., FISCHERING 2
Tel. 0043 (4358) 2287, Fax. 2208

Fischering, 14.06.2012
Date

Director

Second. Safety information:

Before starting,
read the instruction manual
and note.

The transport of the machine is prohibited!

the stripper is to be checked prior to each start of work

When attaching the machine and during operation of the hydraulic folding sure that no one in between.

Never reach into the crushing area as long as parts may move!

Stay clear of swinging range folding machine parts!

The stay in the danger zone is permitted only if a memory Hubzylindersicherung or safety support!

Beware of high pressure fluid escaping!

third. Intended Use

Dear Customer!

We are pleased to congratulate you on your buying decision and wish you much fun and success in working with this device.

Please read necessarily before using this product all the instructions in this manual carefully.

This will avoid, reduce risks, downtime and repair costs, increase reliability and service life of your machine.

With illustrations and information on technical data and dimensions in this manual changes designed to improve, are reserved.

The machine is equipped with state of the art and the recognized securities safety rules. Nevertheless, results from the use of injury to the user or third parties.

The only machine in perfect working condition for its intended purpose, safety and
risk of danger with respect to use of the manual!

In particular, problems that can affect safety must be corrected immediately.

The machine may only be used by individuals, maintained and repaired, who are familiar with and aware of the danger.

The installation or modification of products can not Hatzenbichler constructively given
Characteristics of the machine to change negative and thereby impair the safety of man and machine.

The machine is designed for normal use for cultivation in the agricultural sector determined.
Any other or additional use is considered improper.

Shall not be liable for damages resulting from Hatzenbichler.
The risk is borne entirely by the user.

Intended use also includes compliance with the instruction manual and the adherence to the manufacturer‘s instructions for operation, maintenance and maintenance requirements.

4th. Accident prevention

- The General accident prevention regulations of each country are taken into account.
- When is arrival and uncoupling the machine to the hitch of the tractor injury.
- The unit must be secured to prevent accidental switching off when rolling.
- The device may only be used by anyone on the regulations for public transport streets know.
- The attached machine before hanging off the ground.

5th Germination requirements

The company assumes no liability for Hatzenbichler the germination of seeds.

Grounds:

We lack any ability to predict the following factors:

first	soil
second	State of the seed
third	Depth of sowing
4th	Preparation of the soil before application
5th	Was built on what device the seeder

Instructions for installation and operation of the device:

The calibration test must be performed by the operator in the field.

„Air 8“ - pneumatic seed drill with 8 hoses to over-or reseeding
to 6,50m working width.
For sowing in the field plowed to 3.00 m working width.

„Air 16“ - pneumatic seed drill with 16 hoses to over- or reseeding
12m working width.
For sowing in plowed field to 6m working width.

6th. Warranty

The unit immediately upon acceptance check for possible shipping damage. Subsequent complaints from transit damage can not be accepted.

We give a one year warranty from date of shipment (your invoice or delivery note as proof of valid).
This warranty is valid in the case of material or construction failure and does not cover parts that are damaged by normal-or excessive wear.

The warranty is void
- ➛ if damage is caused by external forces
- ➛ when an operation error
- ➛ if the specified KW/horsepower limit is exceeded
- ➛ if the device is changed without our consent, extended, or is equipped with foreign parts.

7th Air 8 - Installation Instructions

7.1 PNEUMATIC SEEDER

1. The support provided to the pneumatic seeder mounted behind the headstock.

2. The Seedbox on this mount bracket build such that the electric blower and the metering device to the rear point and the seed tubes forward lead to the distributor hoses.

3. The operator platform should be behind the seed box and positioned as desired.

4. Respect them in the setting of seed retention brush

7.2 TAIL WHEEL

1. The wheel is mounted with the included locating on the lower hole in the rear parking stand. The cable should have the right hose.
2. The bracket for the cable conduit is mounted right on the roller suspension.

7.3 DISTRIBUTOR TUBES

1. Remove the plastic caps on the front of the carrier, perform the mounting bracket all the way into the pipe and tighten the screw.
2. Carrier distribution profile of C-insert into the mounting bracket, and 20 to 40cm above the ground set.
3. Distribution hoses with the supplied screws on the carrier C-section at a distance of approximately 37.50 cm place.
4. Hoses and trim used between Saatkastenauslass and distribution plate, tubing it out so that when hydraulic folding (if any) are not the hoses clamped be.

Working width	Distance distributor hoses
3,00m	37,50cm
4,50m	56,25cm
5,00m	62,50cm
6,00m	75,00cm
6,50m	81,25cm

7.4 POWER OF THE BLOWER

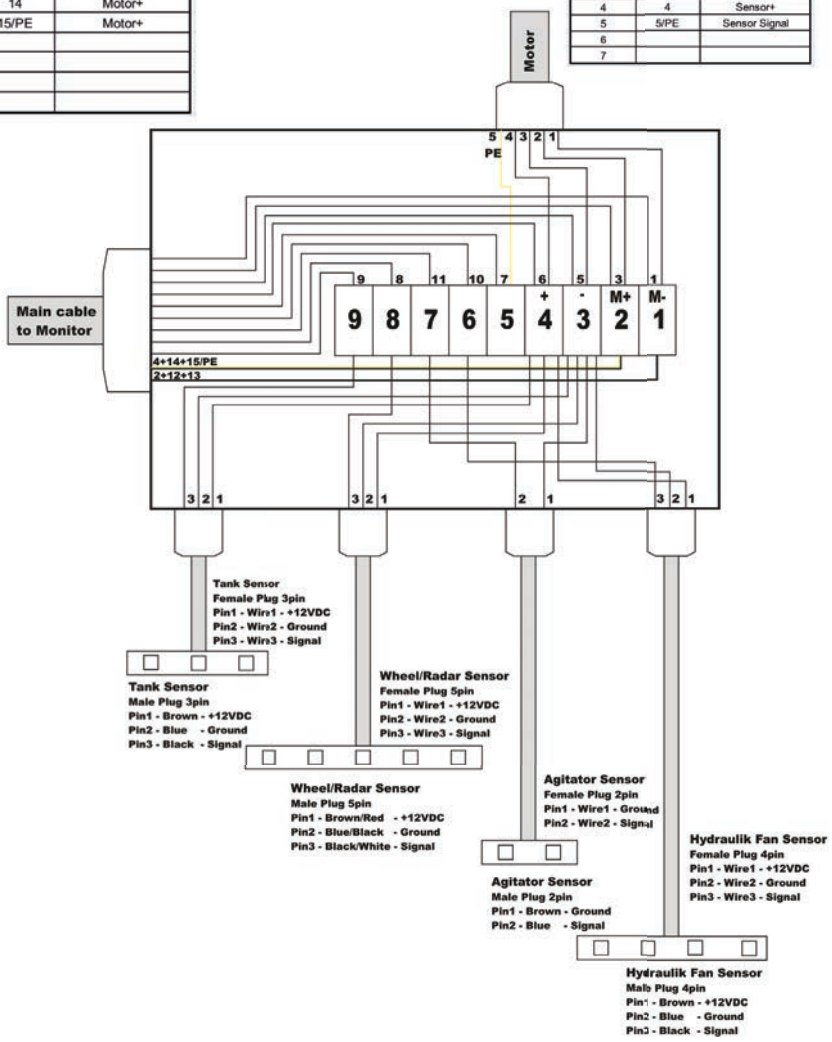
The fans need 12V/30A directly from the battery of the tractor. The two fans are separately connected to the battery. When connecting, make sure that the fan running in the right direction, ie in plan view in a clockwise direction.

1. Power cable (see Figure 1) connect directly to the tractor battery put on / off switch and 7-pin connector in the cab.
2. The cable of the Seeding machine has a 7-pin socket which is connected to the power cord of the tractor.
3. The supplied cable has the positive wire to the battery via two series fuses (16 A).

Ari 8 electric

Main cable to monitor		
PIN Nr.	WIRE Nr.	Description
A	1	Motor-
B	2	Motor-
C	3	Motor+
D	4	Motor+
E	5	Grd - Sensors
F	6	+12VDC Sensors
G	7	Motor Sensor
H	8	Wheel/Radar Sensor
I	9	Tank Sensor
J	10	Fan Sensor
K	11	Agitator Sensor
L	12	Motor-
M	13	Motor-
N	14	Motor+
P	15/PE	Motor+
R		
S		
T		
U		

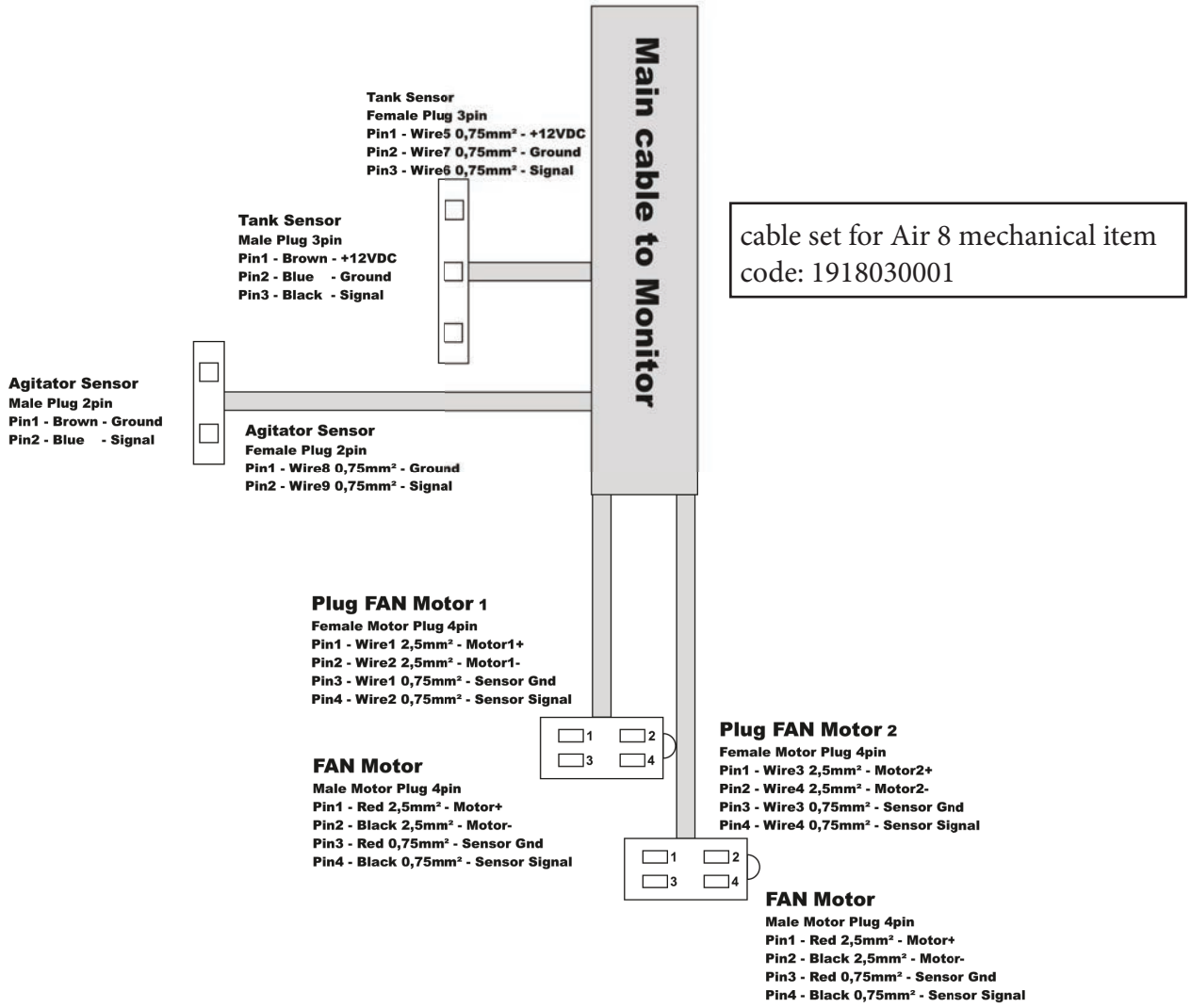
Motor		
PIN Nr.	WIRE Nr.	Description
1	1	Motor-
2	2	Motor+
3	3	Sensor-
4	4	Sensor+
5	5/PE	Sensor Signal
6		
7		



Air 8 mechanical

Main cable to monitor		
PIN Nr.	**WIRE Nr.**	**Description**
A	1 2,5mm²	Motor1+
B	2 2,5mm²	Motor1-
C	3 2,5mm²	Motor2+
D	4 2,5mm²	Motor2-
E	1 0,75mm²	Motor1 Sensor Gnd
F	2 0,75mm²	Motor1 Sensor Signal
G	3 0,75mm²	Motor2 Sensor Gnd
H	4 0,75mm²	Motor2 Sensor Signal
I	5 0,75mm²	Tank Sensor +
J	6 0,75mm²	Tank Sensor Signal
K	7 0,75mm²	Tank Sensor -
L	8 0,75mm²	Agitator Sensor Gnd
M	9 0,75mm²	Agitator Sensor Signal
N		
P		
R		
S		
T		
U		

monitor unit for air 8 mechanical drive item code: 1918030002



cable set for Air 8 mechanical item code: 1918030001

8th Note for the operation

8.1 basic settings for the Cover of the seed hopper

➛ Before start seeding check if the cover of the seed hopper ist closed with the handle.
➛ Check the screw of the cover of the seed hopper if it´s fixed

2. basic settings

Before filling the seed box, note the following:

1. The correct seed shaft is installed?

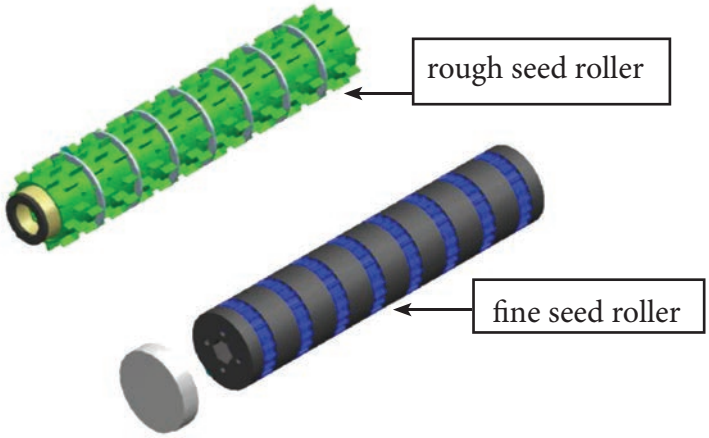
Attention!!! The drill shaft must be according to the size of the seed and authorizations for future Amount to be elected!

<u>Seed, which is applied to the coarse seed shaft:</u>

grass seed mixtures, rye, barley, wheat, oats, etc.
(usually small amounts, 10kg/ha - ≥)

<u>Seed, the seed shaft is applied with the fine:</u>

Pure clover seed, rape, phacelia, granules, etc.
(usually small amounts, 15kg/ha ≤ - ≥)



3. Setting the seed retention brush:

The distance between the retaining brush from the seed shaft can be adjusted with the lever on the right side of the pneumatic Seeding machine. It is possible a distance between 1 and 7mm to choose.

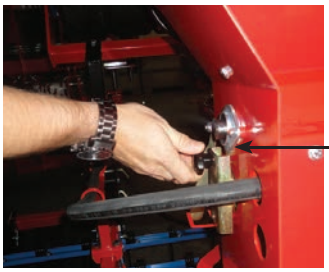
<u>It is, however, note the following:</u>
The distance between the brush and roller corresponds to about 1/2 of seed

means the oilseed rape, clover	0,1mm
grass mixtures	1-2mm
Ground cover and feed mixtures	2-3mm

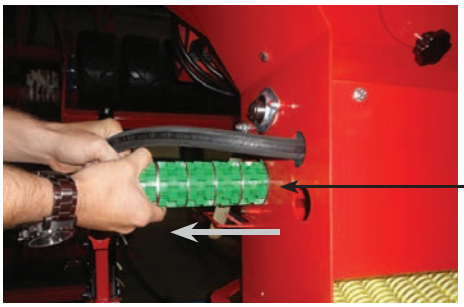
The gap at the bottom of the drill shaft should never be more than 1mm (factory setting).

8.2 Changing the seed roller:

1. Ensure that the seed box is completely empty
2. To replace the right side to be on the pneumatic seed drill, the bearing support of the end cap to be removed.
3.Pull out the role - so, while the counterclockwise turn and pull.



opening the Bearing support of the closing flap by thumbscrew



Pull out the seed roller

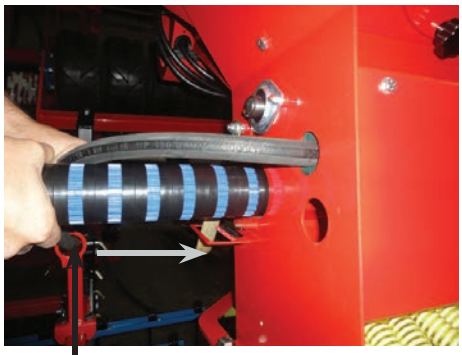
Installation of a new seed roller:

1. New push seed roller shaft to the drive axle.

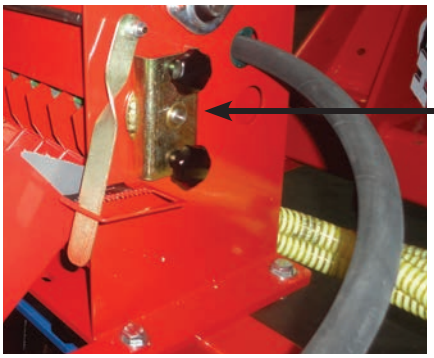
2. Replace the bearing bracket in place.

3. After insertion of the bearing holder should the spring washers at the ends of the seed shaft existing balance game
Attention!!! the slices should not sit tight

4. Trail wheel and make sure that the drill shaft to rotate properly.



New seed roller shaft to the drive axle



The bearing retainer refit using the thumb screws

8.3 Protection plate of the seed roller

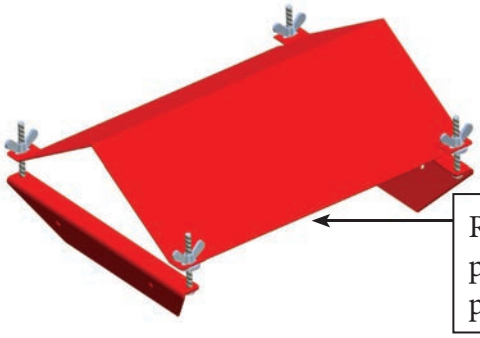
The protective plate is located in the interior of the seed hopper and carries the weight of the seed. It was primarily designed for heavier seeds such as rapeseed oil.

In lighter crops such as grass seed, make sure that the protective plate caused no bridging effect. If this problem persists, the protective plate can be removed by means of wing screws and the sowing may continue without this protective plate.

Attention!!! **Remove only the protection plate when you are using light seed for seeding**

Protection plate of the seed roller mounted in the inner Seedbox

Remove by loosening the wing nuts on all 4 sides



Removed protective plate

8.4 Adjust application rate:

The amount of seed is controlled by a stepless variable transmission.

The adjusting lever on the left side of the device has 38 settings

Attention!!! The seed containment brush must be set to the correct type of seed.
The bandwidth of the spread rate ranges from 0 to 40kg/ha, wherein each setting 1kg/ha approximately equal (depending on the seed).

➔ The lever is set up higher application rate
➔The lift is in the down low application rate

Adjustment lever for adjusting the application rate

8.5 Drive

Trail wheel:
Solved before the start of sowing spure from the transport position and let down to the ground. The wheel in working position is also in constant contact with the ground floor irregularities. If the device is lifted, the pin holding the lever under the wheel away from the ground.

drive cable
The cable conduit is fed to the struts in such a way that kinking.

Attention: The direction of the wheel can not be reversed.

8.6 Calibrate

1. Put away the cover of the seed roller
2. Calibration tank to insert into the tray of running roller
3. Trail wheel 50x rotate anticlockwise
   Attention!!! The wheel shoulded turnde faster than in real work
4. Quantity of seed delivered to within a scale.
5. The measured weight in the formula to use.

$$\frac{10.000 m^2}{\text{(wheel diameter x revolutions x working width)}} \times \text{weight} = \text{amount kg/ha}$$

Example:
Wheel diameter = 1,35m
Revolutions = 50
Working width = 6m
Discharged amount of seed =0,6kg

$$\frac{10.000\ m^2}{(1{,}35 \times 50 \times 6)} \times 0{,}6kg = 14{,}8\ kg/ha$$

7. By moving the lever (upward or downward) can be connected to the left side of the device the amount per hectare can be set.
8. Repeat calibration until the desired application rate is reached.


1.


1.


2.


3.

8.7 Drain the Seedbox

- The calibration tank into the compartment (as well as performing the calibration)
- The lever for adjusting the maximum spray rate and retention brush (on the right side). and set the spure clockwise until the Seedbox is empty.
- In complete emptying of the seedbox the seed roller must also be removed.

9th Working at the field

Litter:
Old pastures can be optimized by applying new seed. Preparing the old floor with the harrow, so that cost-effective broadcast seeding can be done. The combined use of pneumatic seeder VERTIKATOR and makes the most of every litter program, because at the same time fighting weeds, aerates the soil and the conditions for germination are optimized.

Overseeding:
The seeding has the advantage of clearly higher yields and improved feed quality. Seeding on cultivated soil with the harrow and the pneumatic sowing machine easy to handle. However some points to consider:
- Determined before application of the pH, phosphate and potassium content of the soil.
- The seedbed should be fine and firm
- Seeding depth observed

Intercropping:
It is also possible after harvest in stubble intercrop, the application of a pneumatic seeder Air 8. For example, the installation of a disc harrow or Hatzenbichler Delta.

10th Before start working:

- Operation of both fans and the true direction?
- It is recommended to allow both fans run briefly to allow for any moisture in the Distributor tubing to dry. Thus, the risk that reduces clog the tubes.
- It should be min. 10kg seed in the seed box.
- The lid of the hopper to the air.
- The distribution tubes 20 - 40cm above the ground set.
- Check all hoses to ensure uniform output across the entire width to guarantee.

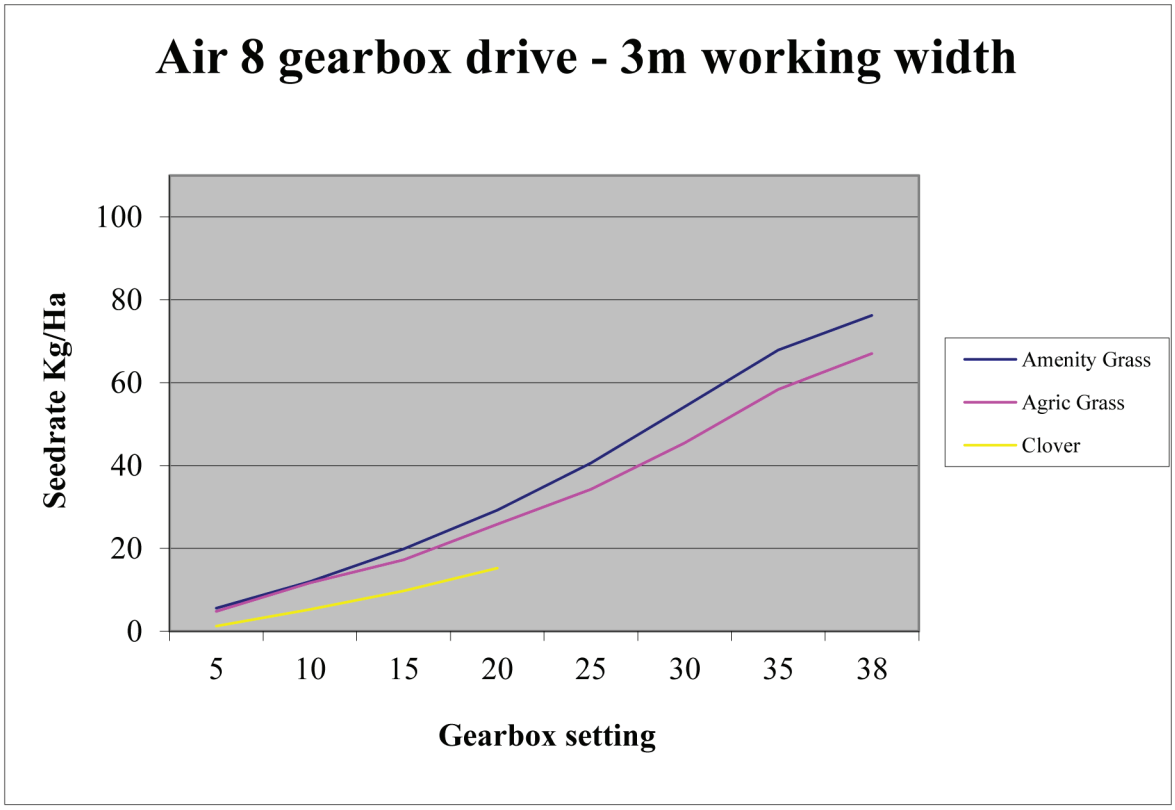
11th Care and Maintenance

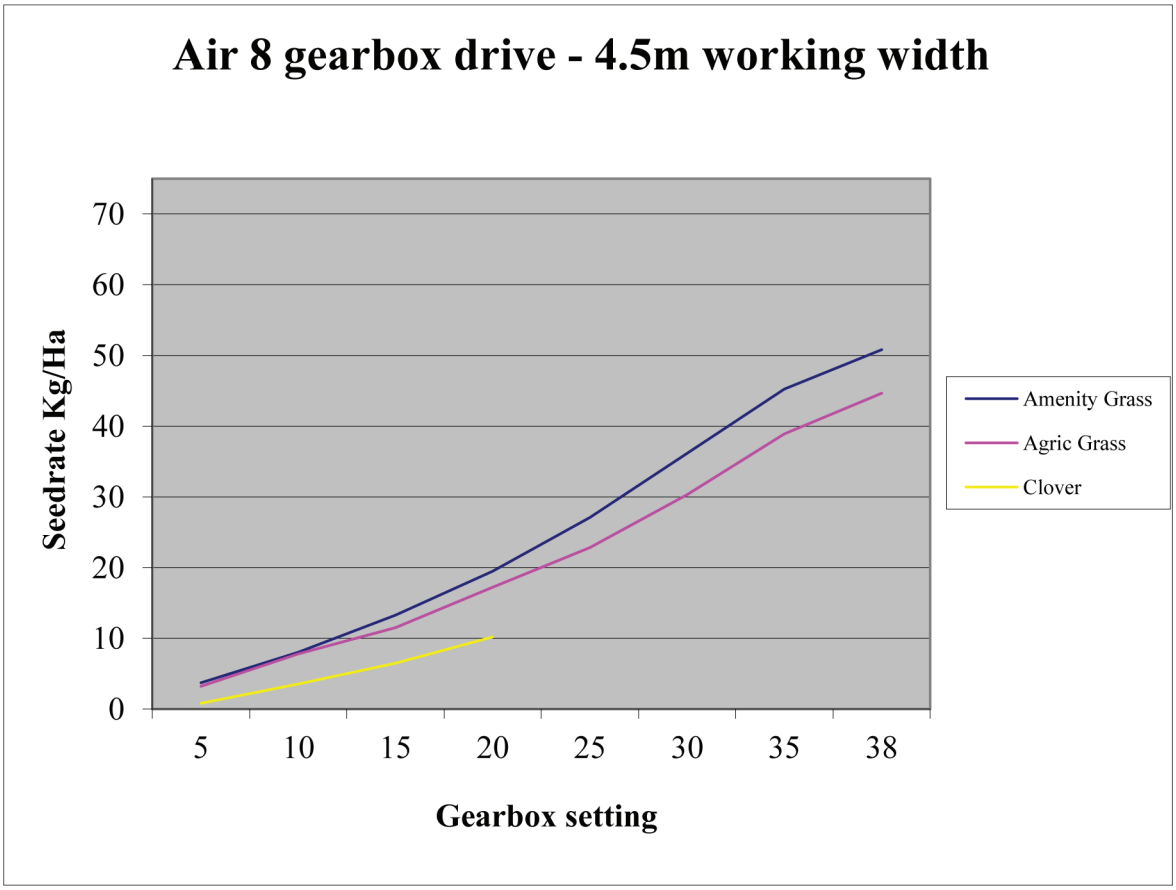
- Electric fan with compressed air, especially in dusty environments.
- Check cables and connectors for damage.
- Check whether the mixer is clean and ready.
- Damage or wear study. Any defects rectified immediately.
- **Check nuts and bolts regularly for tightness and tighten if necessary. (On new units every 3 hours and again after 20 hours.)**
- **Do not use high pressure washers for cleaning bearings and hydraulic parts used.**

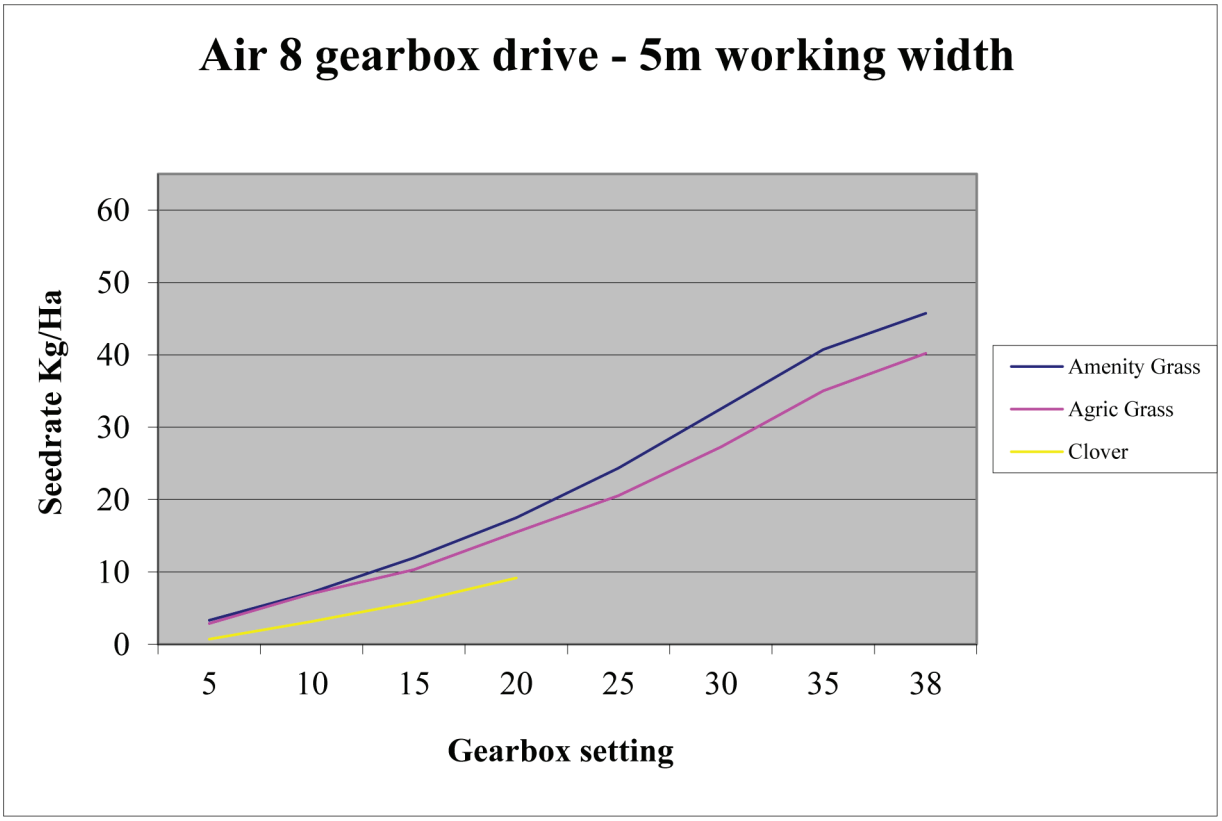
12th Storage in winter

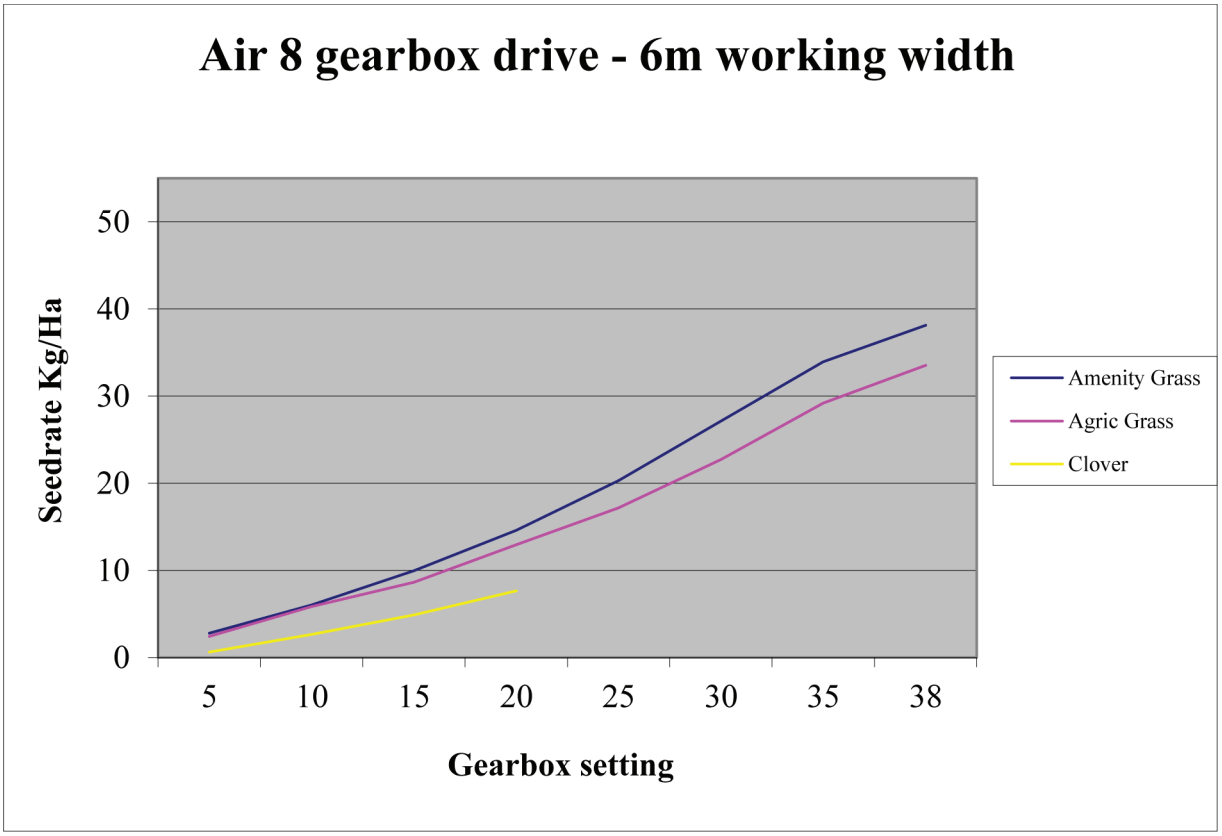
- The completely empty Seedbox
- Completely and thoroughly cleaned
- Off device protected from the weather cover, so that the distribution pipes and the dosing may accumulate moisture.

13th Instructions for calibration






Air 8 gearbox drive - 5m working width
Seedrate Kg/Ha
60
50
40
30
20
10
0
5
10
15
20
25
30
35
38
Gearbox setting
Amenity Grass
Agric Grass
Clover


Air 8 gearbox drive - 6m working width
Seedrate Kg/Ha
50
40
30
20
10
0
5
10
15
20
25
30
35
38
Gearbox setting
Amenity Grass
Agric Grass
Clover

14th Conversion chart

kg		lb
0.5	1	2.2
0.9	2	4.4
1.4	3	6.6
1.8	4	8.8
2.3	5	11.0
2.7	6	13.2
3.2	7	15.4
3.6	8	17.6
4.1	9	19.8
4.5	10	22.0
5.0	11	24.3
5.4	12	26.5
5.9	13	28.7
6.4	14	30.9
6.8	15	33.1
7.3	16	35.3
7.7	17	37.5
8.2	18	39.7
8.6	19	41.9
9.1	20	44.1
9.5	21	46.3
10.0	22	48.5
10.4	23	50.7
10.9	24	52.9
11.3	25	55.1
11.8	26	57.3
12.2	27	59.5
12.7	28	61.7
13.2	29	63.9
13.6	30	66.1
14.1	31	68.3
14.5	32	70.5
15.0	33	72.8
15.4	34	75.0
15.9	35	77.2
16.3	36	79.4
16.8	37	81.6
17.2	38	83.8
17.7	39	86.0
18.1	40	88.2
18.6	41	90.4
19.1	42	92.6
19.5	43	94.8
20.0	44	97.0
20.4	45	99.2
20.9	46	101.4
21.3	47	103.6
21.8	48	105.8
22.2	49	108.0
22.7	50	110.2

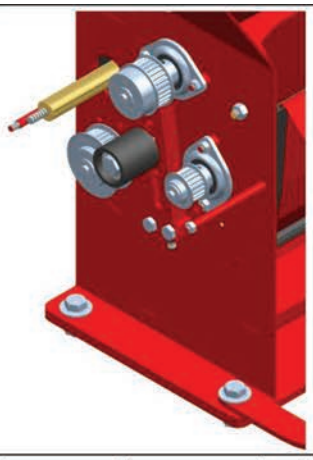
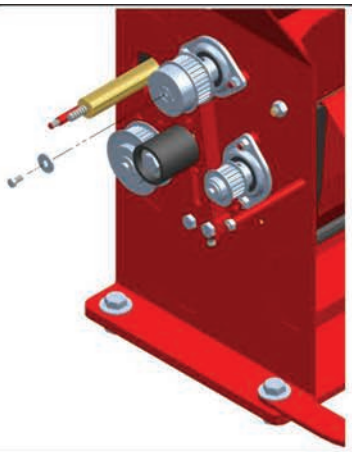
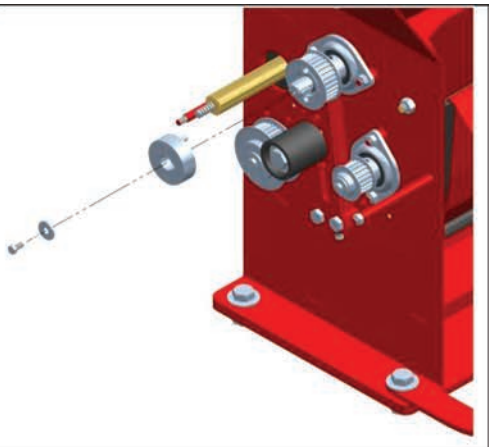
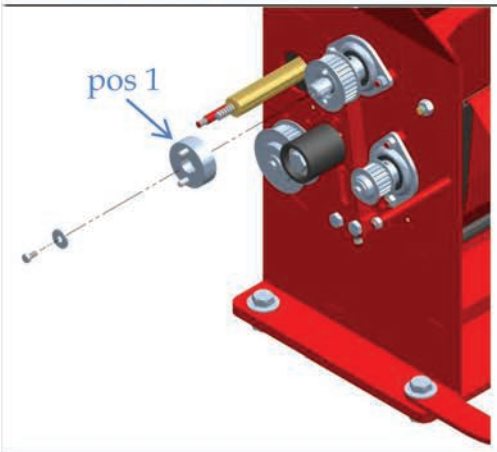
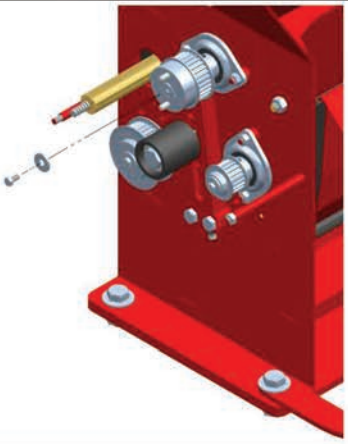
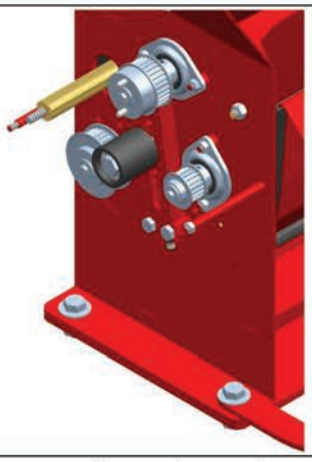
ac		ha
2.5	1	0.4
4.9	2	0.8
7.4	3	1.2
9.9	4	1.6
12.4	5	2.0
14.8	6	2.4
17.3	7	2.8
19.8	8	3.2
22.2	9	3.6
24.7	10	4.0
27.2	11	4.5
29.7	12	4.9
32.1	13	5.3
34.6	14	5.7
37.1	15	6.1
39.5	16	6.5
42.0	17	6.9
44.5	18	7.3
47.0	19	7.7
49.4	20	8.1
51.9	21	8.5
54.4	22	8.9
56.8	23	9.3
59.3	24	9.7
61.8	25	10.1
64.2	26	10.5
66.7	27	10.9
69.2	28	11.3
71.7	29	11.7
74.1	30	12.1
76.6	31	12.5
79.1	32	12.9
81.5	33	13.4
84.0	34	13.8
86.5	35	14.2
89.0	36	14.6
91.4	37	15.0
93.9	38	15.4
96.4	39	15.8
98.8	40	16.2
101.3	41	16.6
103.8	42	17.0
106.3	43	17.4
108.7	44	17.8
111.2	45	18.2
113.7	46	18.6
116.1	47	19.0
118.6	48	19.4
121.1	49	19.8
123.6	50	20.2

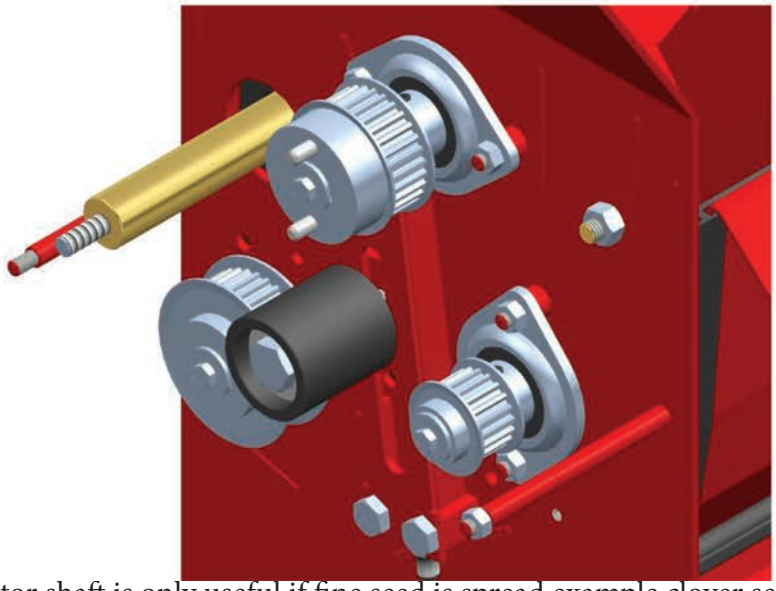
lb/ac		kg/ha
0.9	1	1.1
1.8	2	2.2
2.7	3	3.4
3.6	4	4.5
4.5	5	5.6
5.4	6	6.7
6.2	7	7.8
7.1	8	9.0
8.0	9	10.1
8.9	10	11.2
9.8	11	12.3
10.7	12	13.5
11.6	13	14.6
12.5	14	15.7
13.4	15	16.8
14.3	16	17.9
15.2	17	19.1
16.1	18	20.2
17.0	19	21.3
17.8	20	22.4
18.7	21	23.5
19.6	22	24.7
20.5	23	25.8
21.4	24	26.9
22.3	25	28.0
23.2	26	29.1
24.1	27	30.3
25.0	28	31.4
25.9	29	32.5
26.8	30	33.6
27.7	31	34.7
28.5	32	35.9
29.4	33	37.0
30.3	34	38.1
31.2	35	39.2
32.1	36	40.4
33.0	37	41.5
33.9	38	42.6
34.8	39	43.7
35.7	40	44.8
36.6	41	46.0
37.5	42	47.1
38.4	43	48.2
39.3	44	49.3
40.1	45	50.4
41.0	46	51.6
41.9	47	52.7
42.8	48	53.8
43.7	49	54.9
44.6	50	56.0

kg/ac		kg/ha
0.4	1	2.5
0.8	2	4.9
1.2	3	7.4
1.6	4	9.9
2.0	5	12.4
2.4	6	14.8
2.8	7	17.3
3.2	8	19.8
3.6	9	22.2
4.0	10	24.7
4.5	11	27.2
4.9	12	29.7
5.3	13	32.1
5.7	14	34.6
6.1	15	37.1
6.5	16	39.5
6.9	17	42.0
7.3	18	44.5
7.7	19	47.0
8.1	20	49.4
8.5	21	51.9
8.9	22	54.4
9.3	23	56.8
9.7	24	59.3
10.1	25	61.8
10.5	26	64.2
10.9	27	66.7
11.3	28	69.2
11.7	29	71.7
12.1	30	74.1
12.5	31	76.6
12.9	32	79.1
13.4	33	81.5
13.8	34	84.0
14.2	35	86.5
14.6	36	89.0
15.0	37	91.4
15.4	38	93.9
15.8	39	96.4
16.2	40	98.8
16.6	41	101.3
17.0	42	103.8
17.4	43	106.3
17.8	44	108.7
18.2	45	111.2
18.6	46	113.7
19.0	47	116.1
19.4	48	118.6
19.8	49	121.1
20.2	50	123.6

kg/ha	g/m^2
10	1
20	2
30	3
40	4
50	5
60	6
70	7
80	8
90	9
100	10
110	11
120	12
130	13
140	14
150	15
160	16
170	17
180	18
190	19
200	20
210	21
220	22
230	23
240	24
250	25
260	26
270	27
280	28
290	29
300	30
310	31
320	32
330	33
340	34
350	35
360	36
370	37
380	38
390	39
400	40

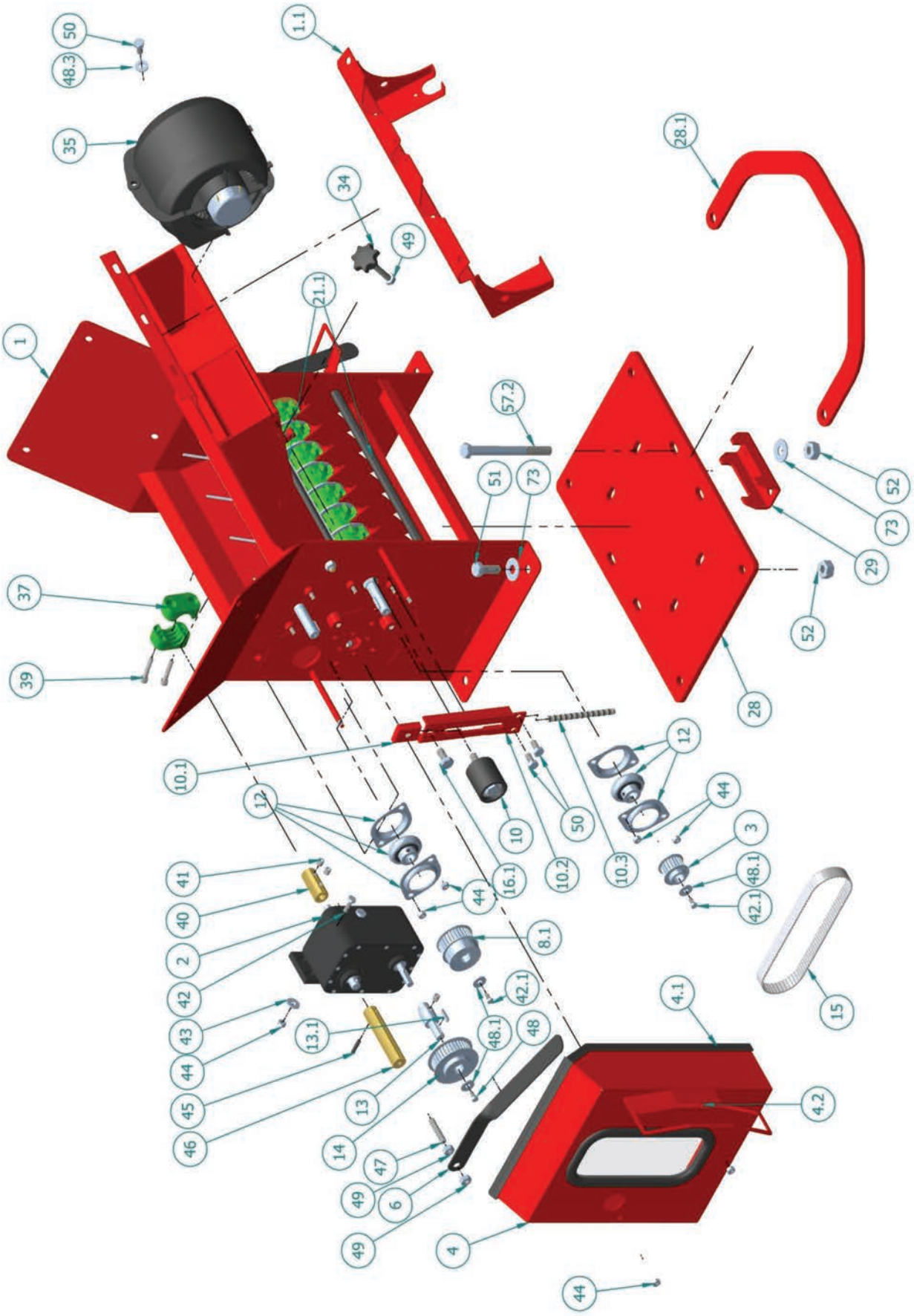
15th Turn off the agitator shaft

		
for this procedure you don't have to remove the belt.	1. remove the bolt and the washer	2. remove the clutch
		
3. turn the clutch (pos 1)	4. connect the turned clutch with bolt and washer	5. now the agitator is turned off



➛ Turning off the agitator shaft is only useful if fine seed is spread example clover seed.

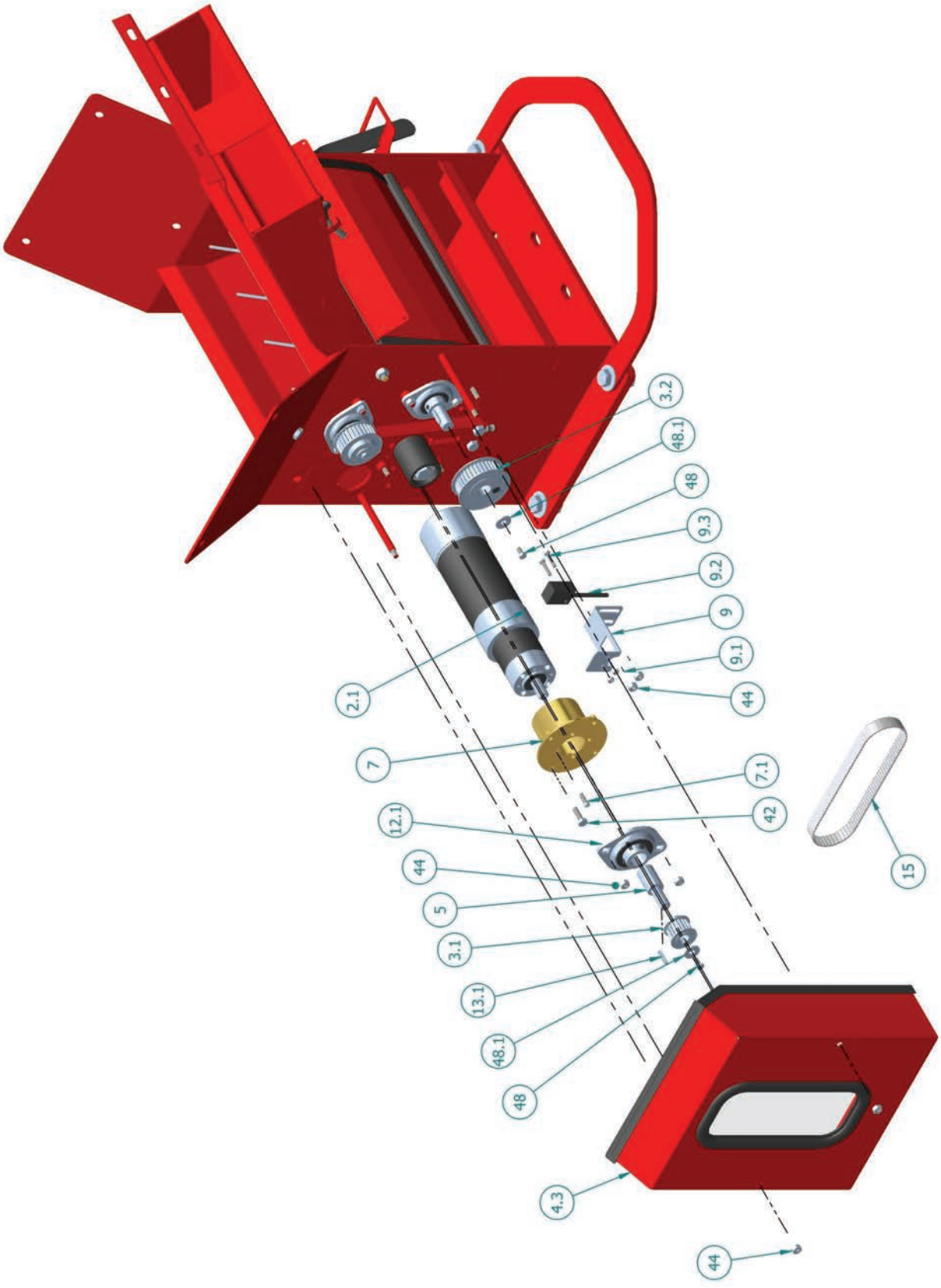
16th Spare parts catalog for pneumatic seeder „Air 8“



AIR 8 COMPLETE

item code	item number	designation
930001	1	seeder base „Air 8“
93090921	1.1	holding plate for protection plate
930002	2	transmission gearbox
9300142	3	toothed-belt roller, Z020, Drilling hole 15mm
930004	4	transmission protection guard
9300041	4.1	toothed-belt roller, Z=20, Drilling hole 15mm
930033	4.2	sticker for scale
930006	6	lever long for seed rate
94061K	8.1	clutch complete
9300101	10	tensioner pulley
9406K	10.1	clamp for tensioner pulley
9406F	10.2	guiding for tensioner pulley
9406S	10.3	screw M8x100
930012	12	bearing
9300131	13	extension shaft for transmission
930096	13.1	fitting key 4x4x20mm
9300141	14	toothed-belt roller, Z=36, Drilling hole 12mm
93000811	15	toothed belt AT 5-525mm
9300211	21.1	cover plate rubber seal, 90° 300mm long
930028	28	mouting plate „Air 8“
39474	28.1	holder for calibration tray
94937	29	mounting clamp
930034	34	lock complete for cover (bolt with handle) M8x50
94985	35	fan blower Air 8 electrical drive
949851	35	fan blower Air 8 mechanical drive - 2013
930037	37	platic clamp 1, size 3
930039	39	allen screw M8x40
930040	40	tenons
930041	41	threaded pin
930042	42	hexagonal screw M6x20
930043	43	washer M6
930044	44	stop nut M6
930045	45	coiled spring pin 5x22
930046	46	connection
930047	47	threaded shaft M8x40
9316	48	hexagonal screw M5x10
930043	48.1	washer M6
930237	48.3	big washer M8
70012	49	stop nut M8
930050	50	hexagonal screw M8x16
930051	51	hexagonal screw M12x30
70013	52	stop nut M12
9300572	57.2	hexagonal screw M12x130
412124	73	washer M12
93000511	42.1	hexagonal screw M6x35

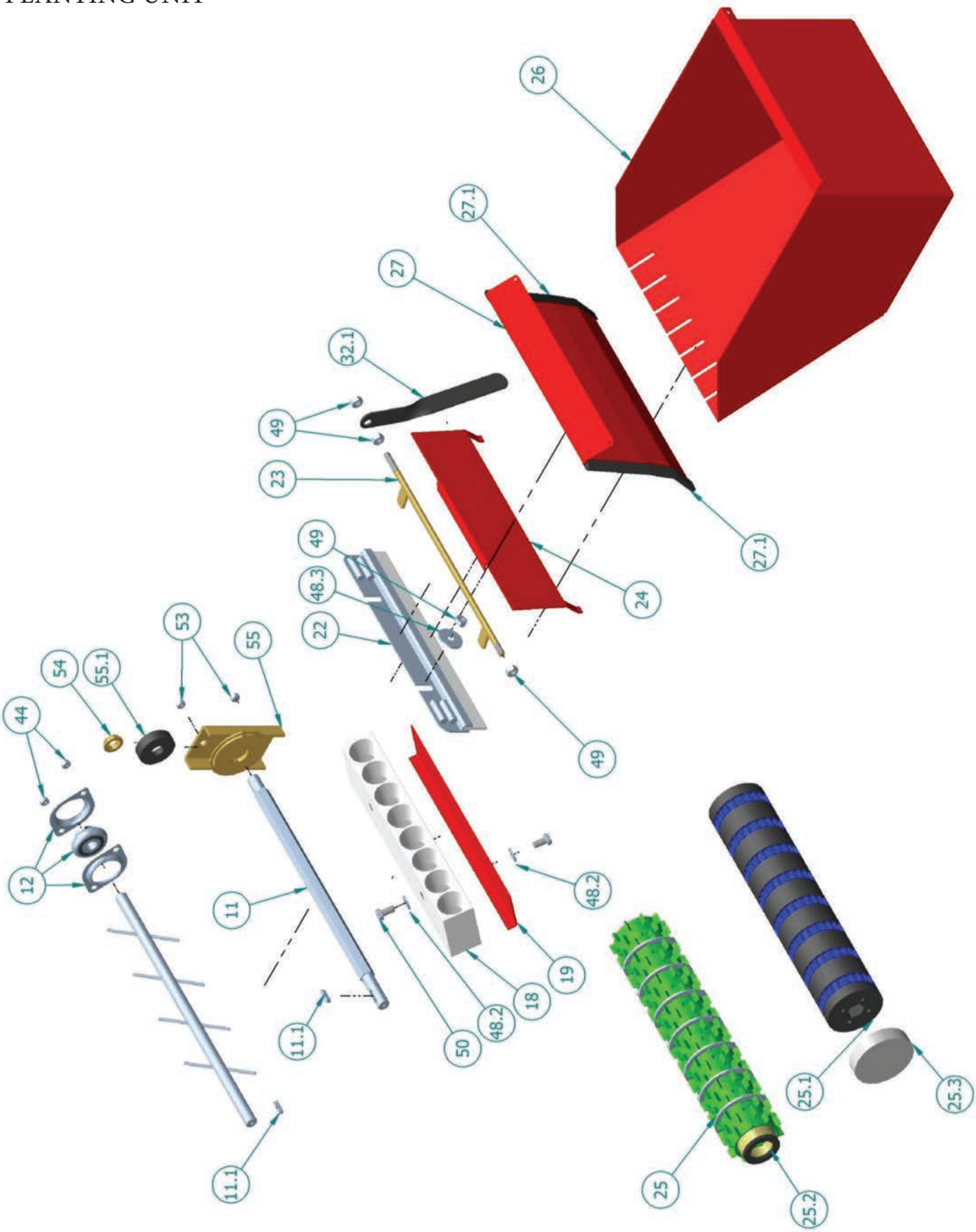
Metering box



Metering box

item code	item number	designation
9310190	4.3	protection guard
931187	2.1	elektric motor
9300031	3.1	toothed-belt roller, Z=18
9300141	3.2	toothed-belt roller, Z=36 eith magnet for sensor
93001310	5	adapter for electric motor
930194	7	screw M5x16
930193	7.1	holder for sensor
8030341	9	stop nut M4
4100570	9.1	sensor
9120870	9.2	screw M4x20
4100572	9.3	screw M4x20
9300128	12.1	bearing 204
930096	13.1	fitting key 4x4x20
93000811	15	toothed belt AT5-525mm
930042	42	hex bolt M6x20
930044	44	stop nut M6
9316	48	hex bolt M5x10
930043	48.1	washer M6

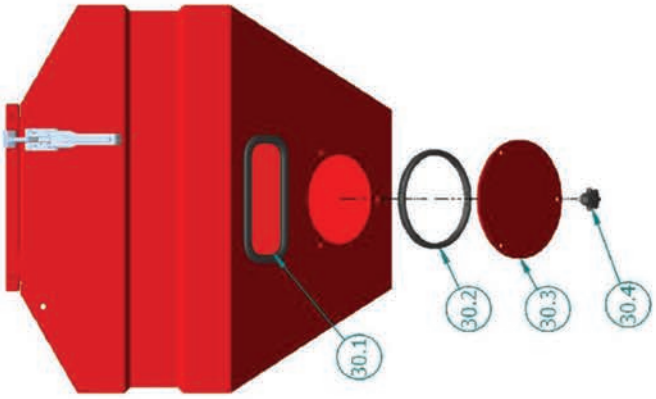
PLANTING UNIT



PLANTING UNIT

item code	item number	designation
9300143	8	toothed-belt roller, 30z, Drilling hole 15mm
930011	11	hexagonal axle
930090	11.1	fitting key 5x5x20mm
930012	12	bearing
930018	18	hose distributor, PVC, with 8 holes
930019	19	hose clamp
930022	22	brush „Air8“
930023	23	rod for brush adjustment
94984	24	divider plate „Air8“
930025	25	seed roller rough „Air8“
934822	25.1	seed roller fine „Air8“
9311041	25.2	foam cover with cap
931088E	25.3	end cap for micro roller
394751	26	calibration tray „Air8“
930027	27	cover
9300271	27.1	rubber seal for cover, straight 160mm long
9300320	32.1	lever short for brush „Air 8“
93000511	42.1	hexagonal screw M6x35
930044	44	stop nut M6
930043	48.1	washer M6
930230	48.2	washer M8
930237	48.3	big washer M8
70012	49	stop nut M8
930050	50	hexagonal screw M8x16
930053	53	nut M6
930054	54	bearing
930055	55	end cap assembly complete with bearing, zinc coated
9300551	55.1	plastic disc for bearing zinc coated

SEED BOX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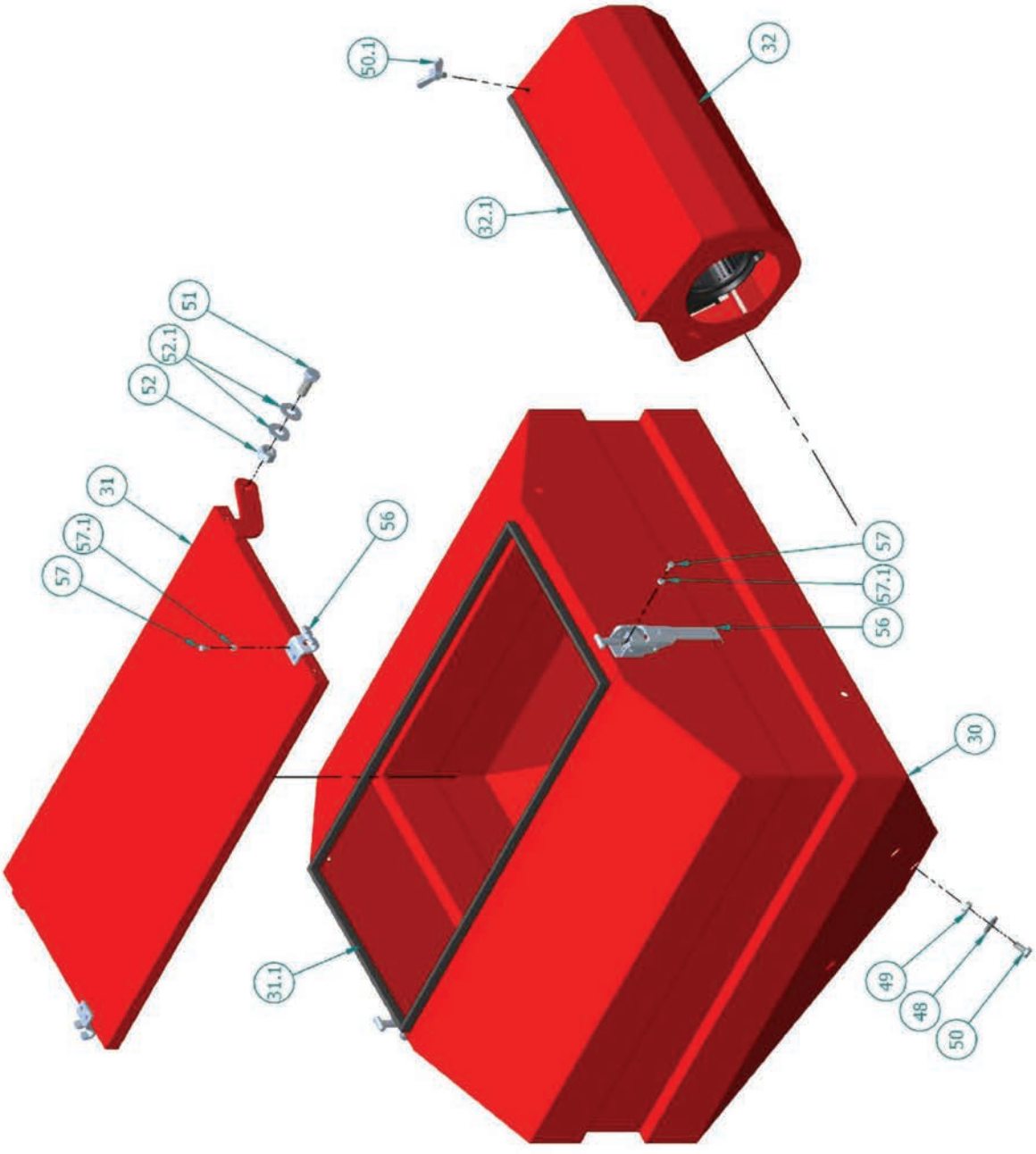
30.4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52.1
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57.1
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57.1
56
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31.1
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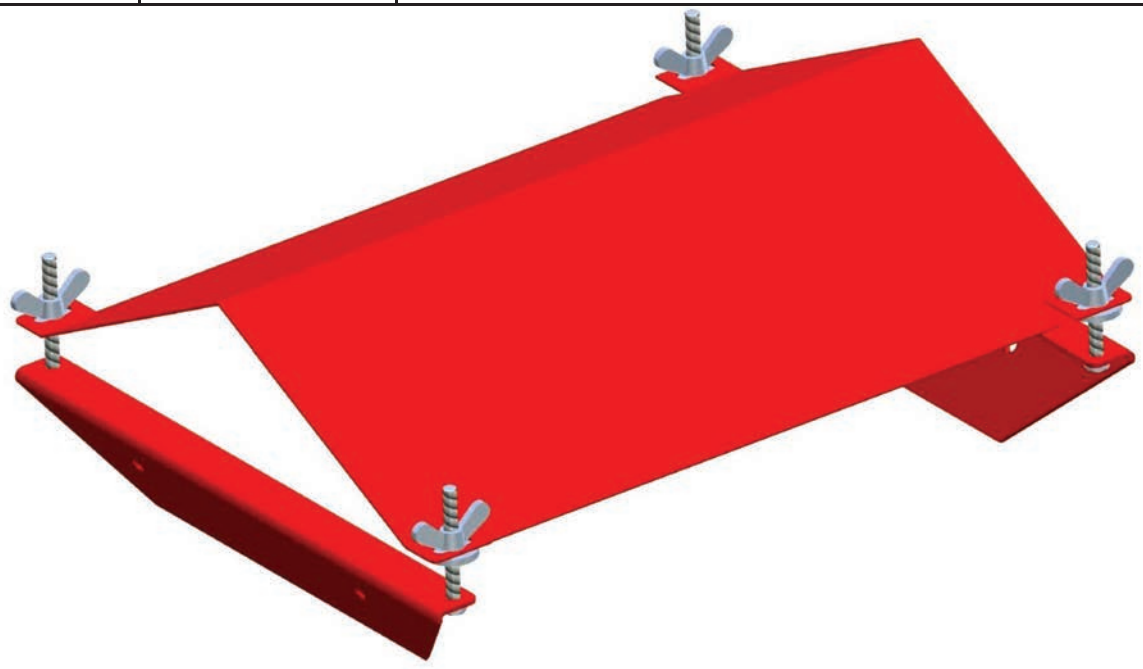
48
50

SEED BOX

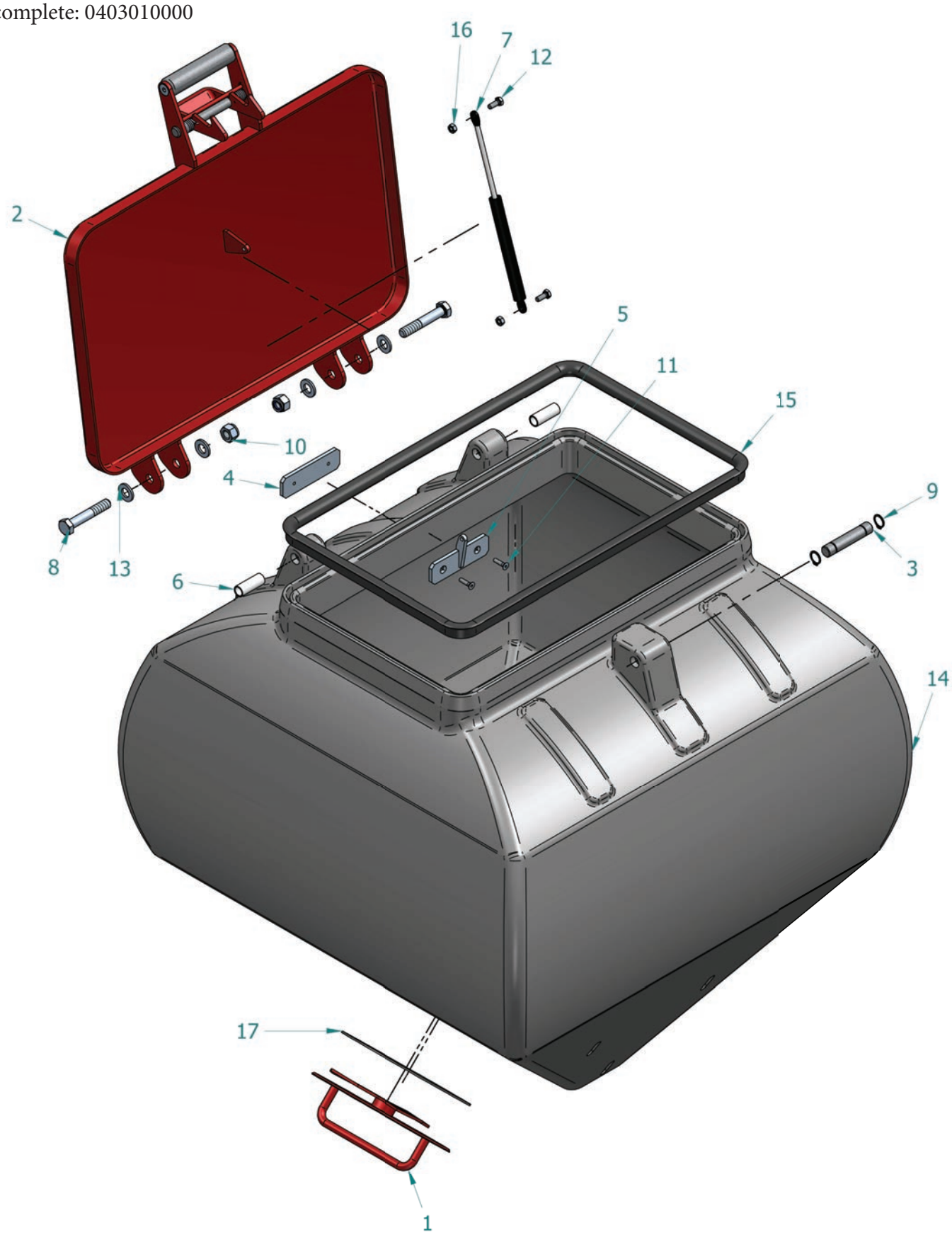
item code	item number	designation
930030	30	seed hopper „Air8“, 150l
9300301	30.1	acrylic glass screen and seal
9300491	30.2	Seal outlet
930049	30.3	Cover for outlet
9310981	30.4	toggle screw M8x15
39005	31	hopper lid „Air8“
390052	31.1	seal for hopper lid
930032	32	blower protection guard
93003234	32.1	lever short for blower protection
9316	48	hexagonal screw M5x10
70012	49	stop nut M8
930050	50	hexagonal screw M8x16
93003912	50.1	wing bold M8x12
930051	51	hexagonal screw M12x30
70013	52	stop nut M12
8009F1	52.1	washer M12
9300561	56	lid lock galvanised
9300570	57	screw M5x10
9300571	57.1	nut M5



item code	item number	designation
930092		2xL-part for seed roller protection shield, 4xtoggle screws M8

SEED BOX - NEW 2012

complete: 0403010000



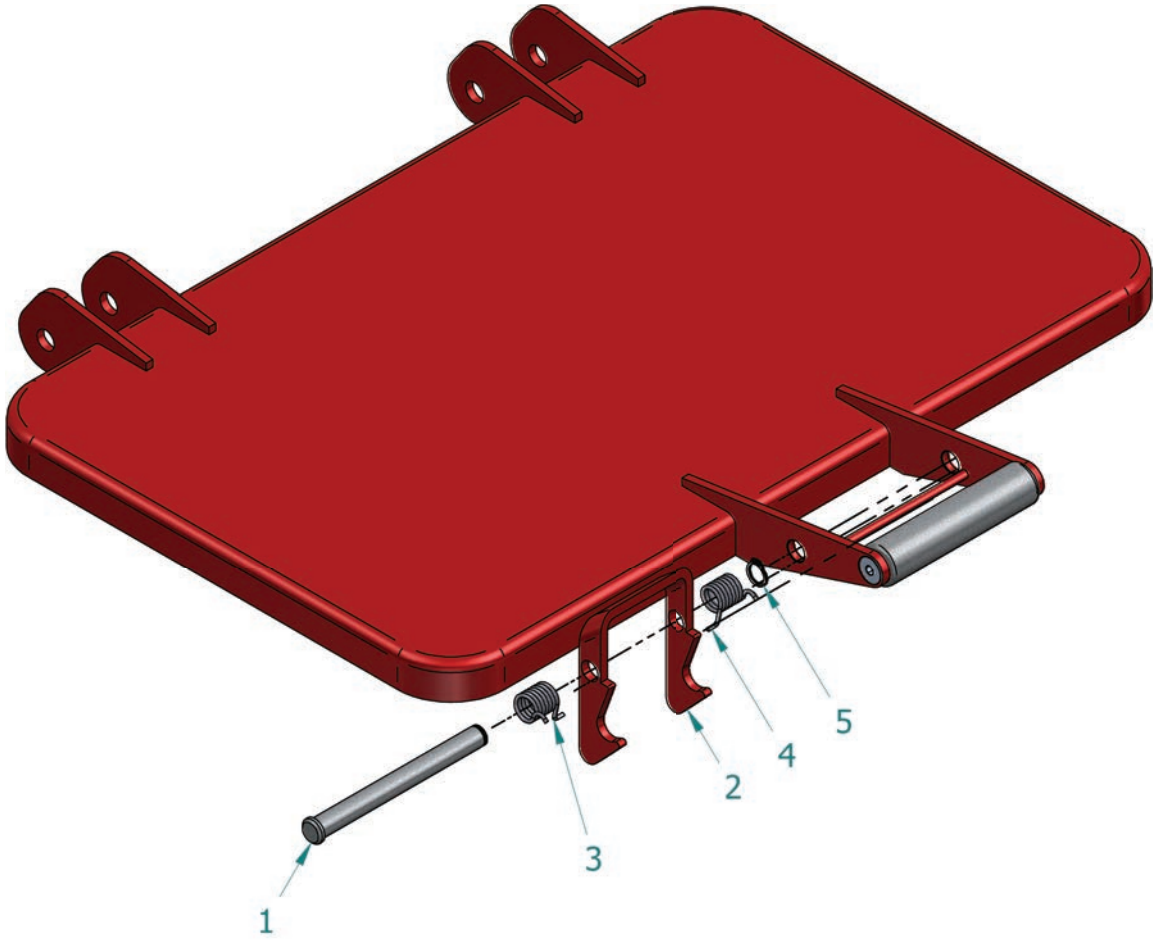
SEED BOX - NEW 2012

complete: 0403010000

item code	item number	designation	quantity
0403010002	1	draining lid	1
0403010003	2	cover for Air 8	1
0403010004	3	bolt lock	1
0403010005	4	counter plate holder for gas spring	1
0403010006	5	holder for gas spring	1
0403010007	6	bearing tube for cover	2
0403010008	7	gas spring for Air 8	1
1901010014	8	hexagonal screw M12x70	2
1904030003	9	circlip 15x1	2
1902010003	10	hexagonal screw M6x16	2
1901040001	11	hexagonal screw M5x20	2
1901010041	12	hexagonal screw M6x16	2
1908010002	13	washer A13	4
0403010001	14	container for Air 8	1
0403010009	15	gasket for cover	1
1902020002	16	hexagonal nut M6	2
0403010010	17	gasket for discharge opening	1

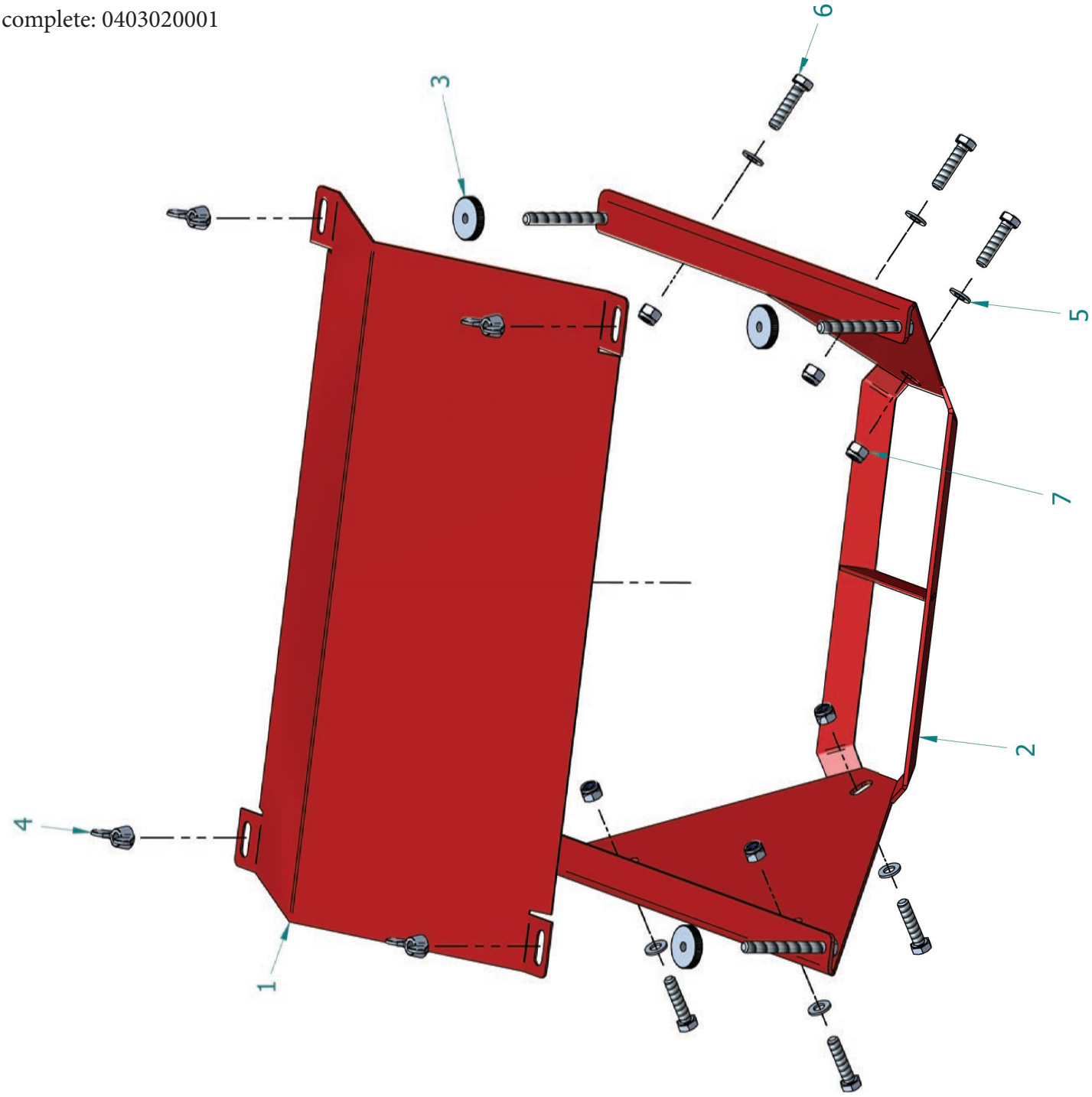
COVER - NEW 2012

complete: 0403010003



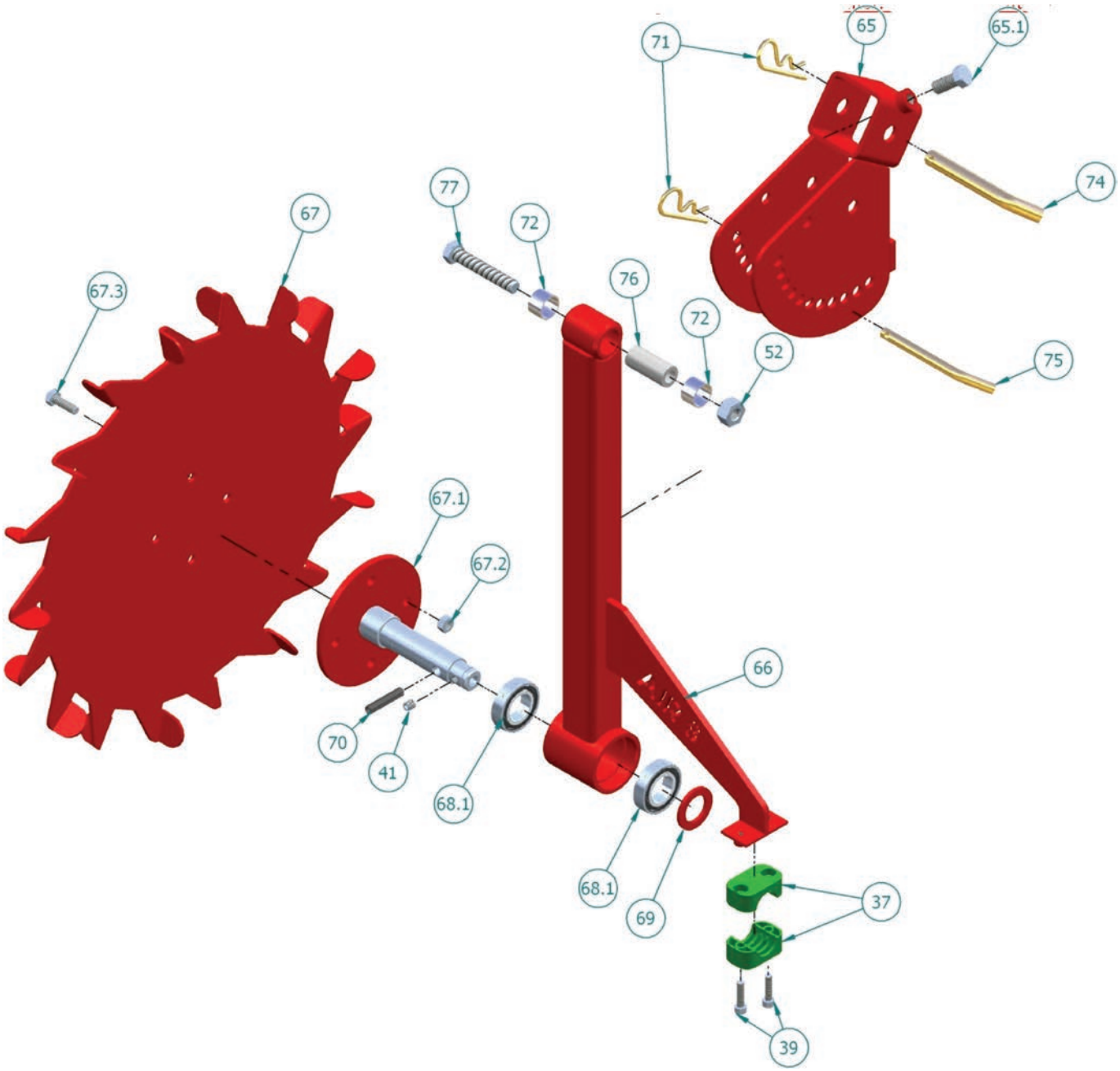
item code	item number	designation	quantity
0403010014	1	pin for closure	1
1902010003	2	hexagonal nut M12	1
1901010042	3	hexagonal screw M12x140	1
1908010002	4	washer A13	1
1904030005	5	circlip	1

SEED SHAFT PROTECTION - NEW 2012
complete: 0403020001



item code	item number	designation	quantity
0403020002	1	Seed shaft apron	1
0403020003	2	holder for seed shaft apron	1
1902070001	3	knurled M8	3
1902080001	4	butterfly nut M8	4
1908010004	5	washer DIN 125 -A8,4	6
1901010045	6	hexagonal screw M8x35	6
1902010002	7	hexagonal nut M8	6

TRAIL WHEEL


71
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67.3
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67.2
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68.1
68.1
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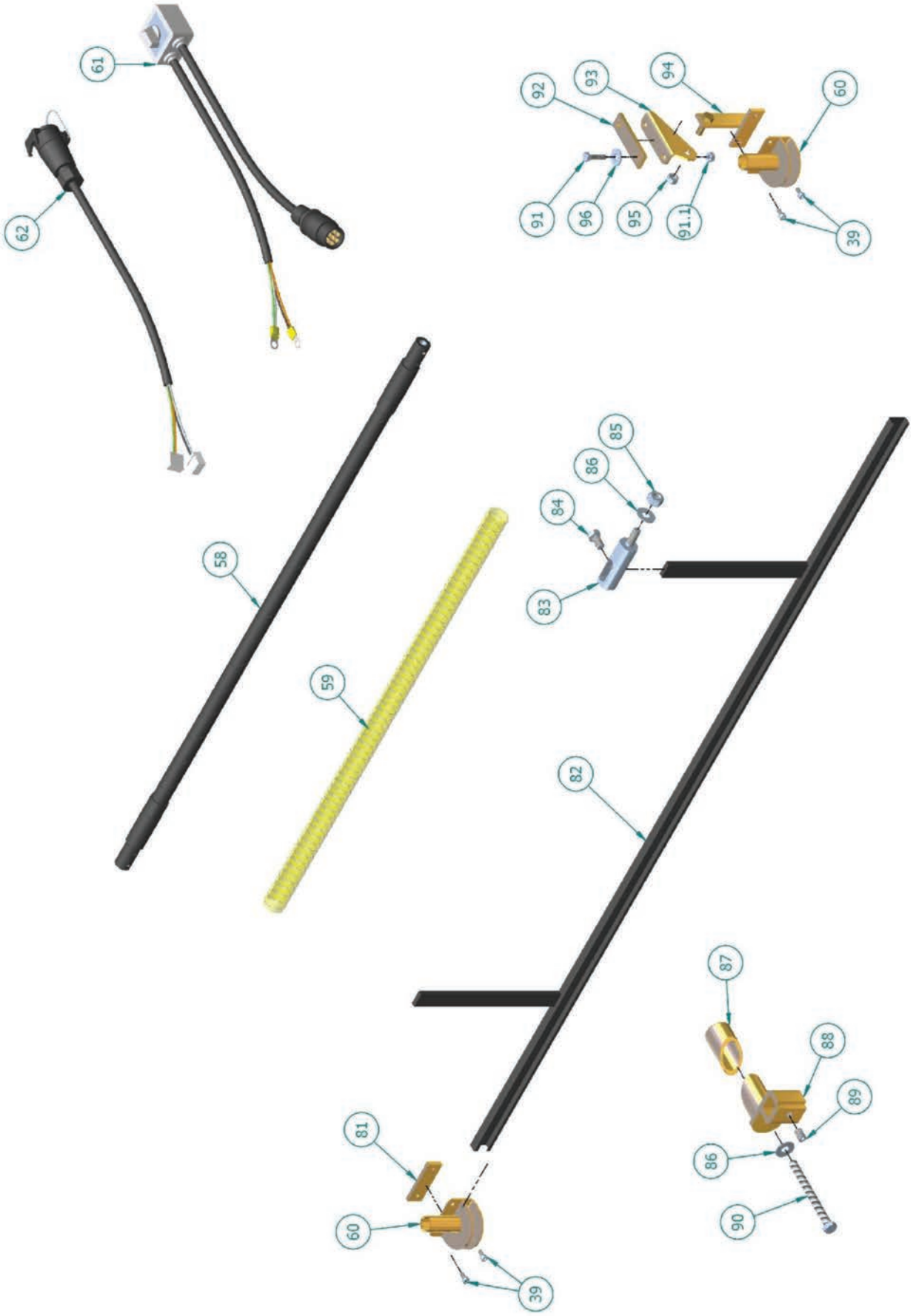
39

TRAIL WHEEL COMPLETE

item code	item number	designation
930037	37	pipe clamp part
930039	39	allen bolt M6x25 plated
930041	41	threaded shaft M8x10
70013	52	nut M12
930065	65	hole plate for trail wheel
930052	65.1	hexagonal screw M12x25
930066	66	holder for trail wheel
930067	67	trail wheel
80312SP	67.1	flansh for trail wheel
70036	67.2	Stop-nut M8
9300392	67.3	hexagonal screw M8x25
60052Z	68.1	bearing 6005 2Z
930069	69	distance ring
95128	70	roll pin 8x40
930224	71	spring pin d=4mm
9414	72	glacier bush 20/15
930074	74	pin d=14mm
930075	75	pin d=10mm
930076	76	distance tube, l=46
93225	77	hexagonal screw M12x70

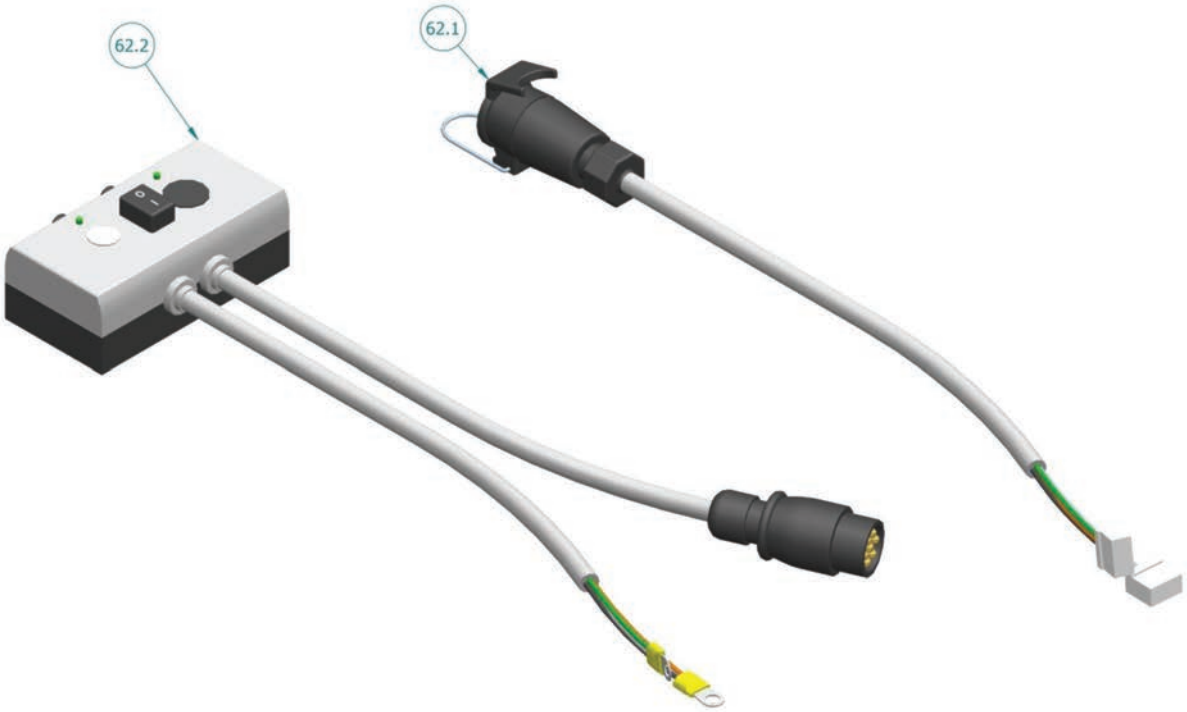
HOSES COMPLETE



HOSES COMPLETE

item code	item number	designation
930039	39	allen bolt M6x25 plated
934821	58	flexible shaft 2,4m
9348214		flexible shaft 2,65m
9348215		flexible shaft 3,0m
9348216		flexible shaft 3,5m
9348217		flexible shaft 4,0m
930059	59	seed hose
949832	60	distributor
931084	61	cable, part 1(from battery, with switch to the plug)
931085	62	cable, part 2 (from the plug to the electric motor)
949831	81	bracket 25x70x6
39111	82	C-Profile/m
391011	82.1	C-Profile, l=1,50m
391022	82.2	C-Profile, l=2,00m
80272	83	holder for c-profile, V6
930214	84	hexagonal screw M12x20
8009F	85	washer M12
70018	86	nut M12
93935	87	expand bracket 1
93934	88	expand bracket 2
930220	89	allen screw M12x130
930219	90	hexagonal screw M12x130
9316S	91	hexagonal screw M8x30 m. Mutter
70036	91.1	nut M8
949833	92	bracket 90x25x6
949834	93	bracket to fit distributor in bed, part 1
949835	94	bracket for distributor in bed
70017	95	stop nut M10
930230	96	washer M8

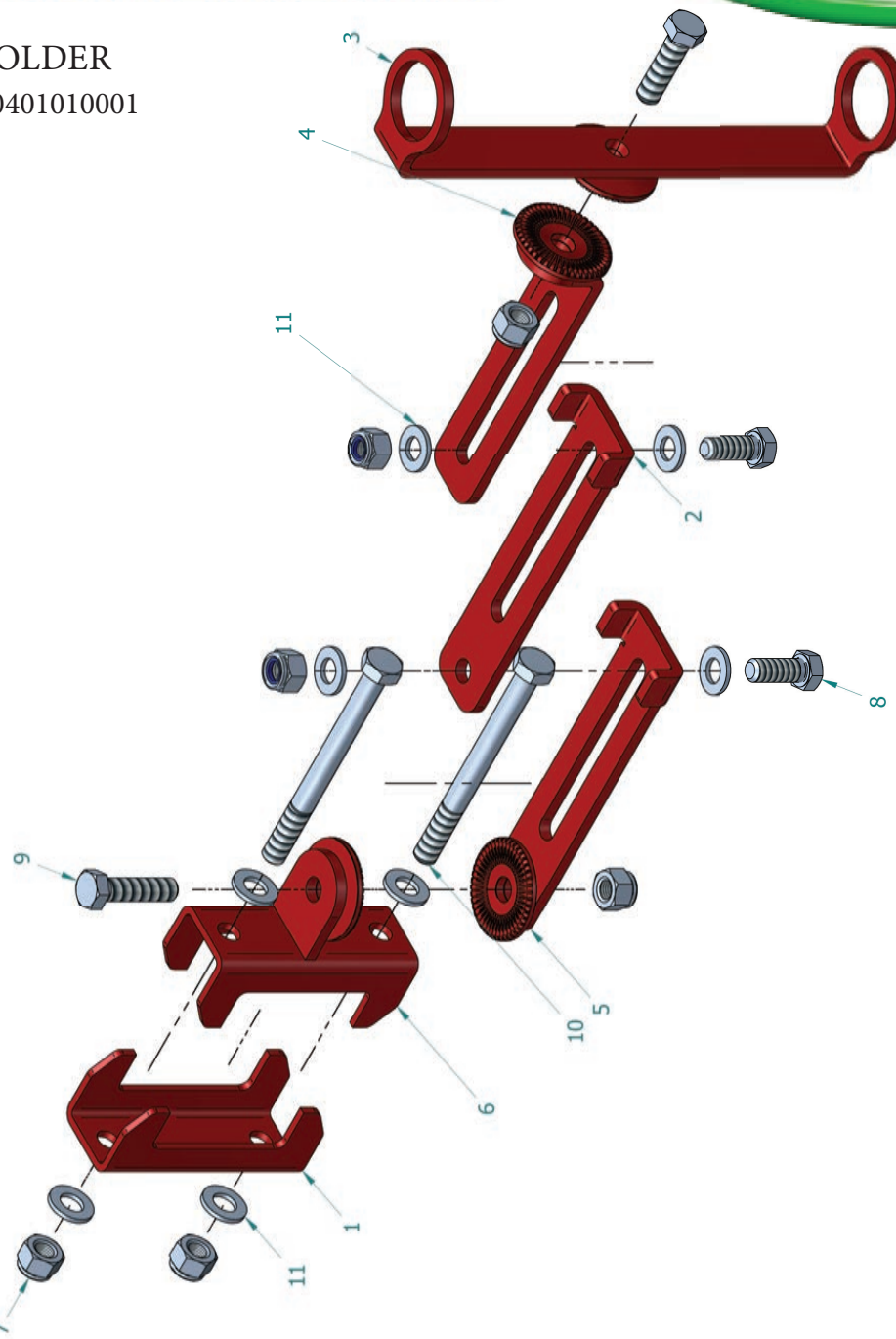
ELECTRO CABLE



item code	item number	designation
9310802	62.1	electro cable (part 2)
9310801	62.2	electro cable (part 1)

HOSE HOLDER

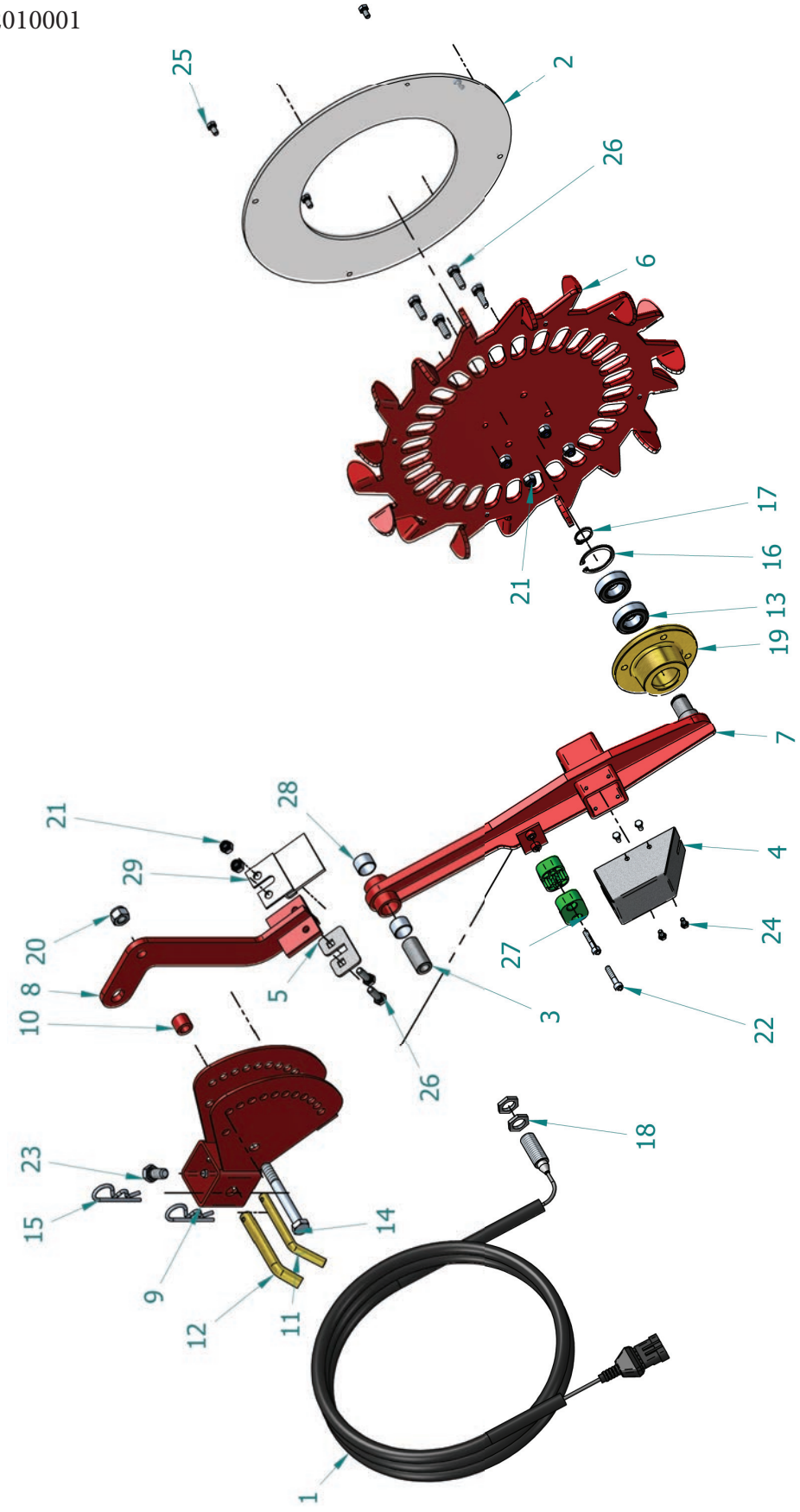
complete: 0401010001



item code	item number	designation
1908010002	1	clamp for tube 80 incl. lock washer
1901010036	2	centerpiece for drive shaft holder
1901010009	3	management for flexible shaft
1901010035	4	tail holder for transmission shafts
1902010003	5	first piece for transmission shafts holder
0401020003	6	80s terminal with tooth washer
0401010004	7	hexagonal nut M12
0401010003	8	hex head screw M12x30
0401020002	9	hex head screw M12x45
0401010002	10	hex head screw M12x130
1913010003	11	washer A 13

SENSOR TRAIL WHEEL

complete: 0402010001

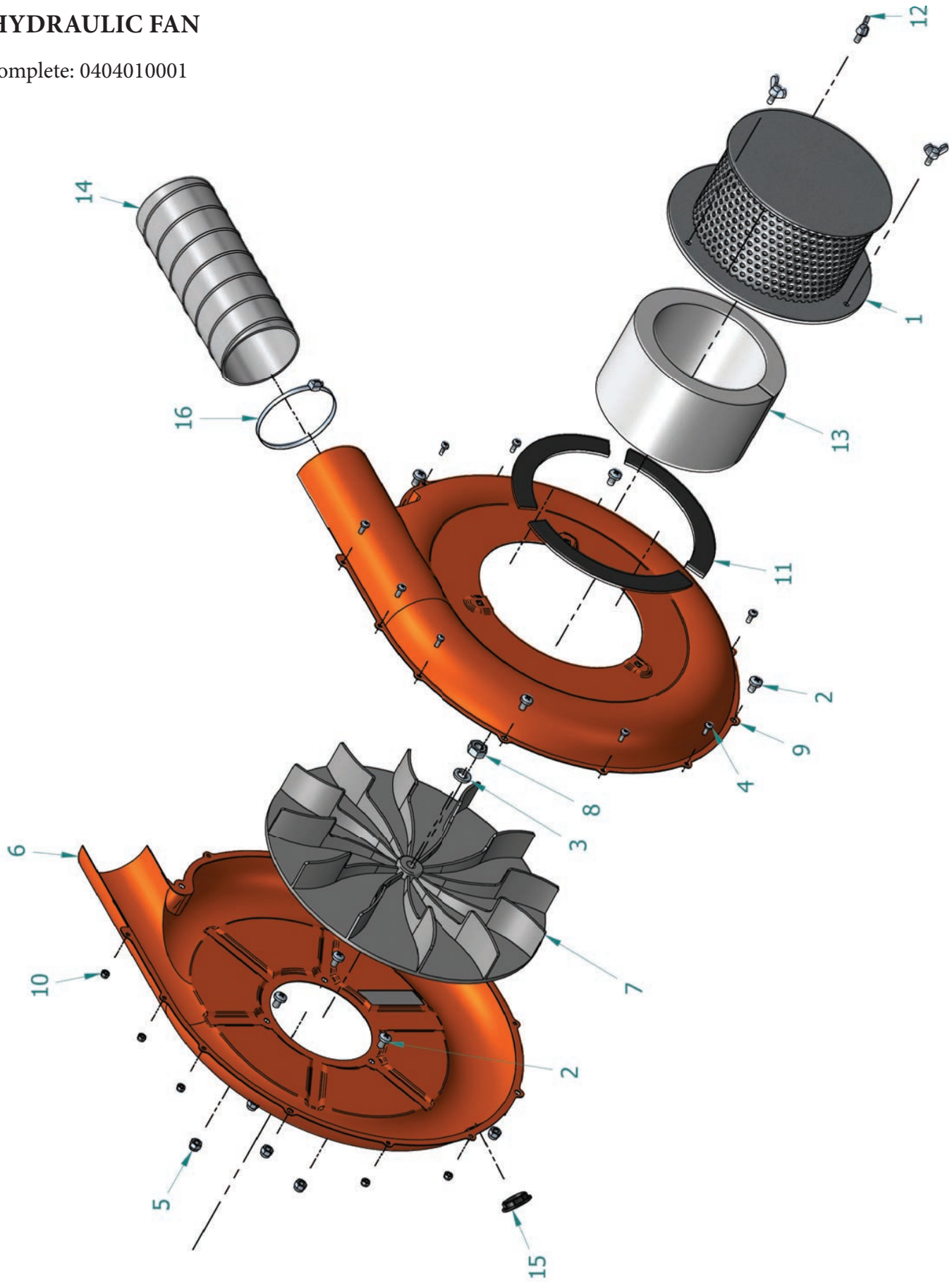


SENSOR TRAIL WHEEL

item code	item number	designation	quantity
1918010001	1	sensor for trail wheel	1
0402010003	2	cover disc for trail wheel	1
0402010002	3	spacer tube Ø=20x4 l=43,5mm	1
0402010004	4	cover for sensor	1
0402010006	5	plate for brake	1
0402010005	6	sensor wheel loose	1
0402010007	7	arm for sensor wheel	1
0402010008	8	brake for sensor wheel	1
0402010009	9	multi-hole adjustment for sensor wheel	1
0402010010	10	spacer tube Ø20x4 l=16mm	1
1903030006	11	connecting pins Ø=10mm, l=75mm	1
1903030008	12	connecting pins Ø=14mm l=75mm	1
1906030002	13	deep groove ball bearings DIN 625 -6004 -2RS	2
1901010010	14	hexagonal screw DIN 931 M12x100	1
1904020002	15	linch pin Ø=4mm	2
1904030001	16	circlip DIN 472 -42x1,75	1
1904030002	17	circlip DIN 472 - 20x1,2	1
1902050001	18	hexagonal nut M18	2
1906030003	19	wheel hub for plant protection	1
1902010003	20	hexagonal nut M12	1
1902010002	21	hexagonal nut M8	6
1901070001	22	cylinder screw M6x30	2
1901010005	23	hexagonal screw M12x25	1
1901010038	24	hexagonal screw M5x10	4
1901010039	25	hexagonal screw M6x12	3
1901010032	26	hexagonal screw M8x25	6
1912070001	27	Stauff-clamp	2
1906010001	28	cylindrical socket TFZ2015B	2
1918020001	29	Brush for sensor wheel	1

HYDRAULIC FAN

complete: 0404010001



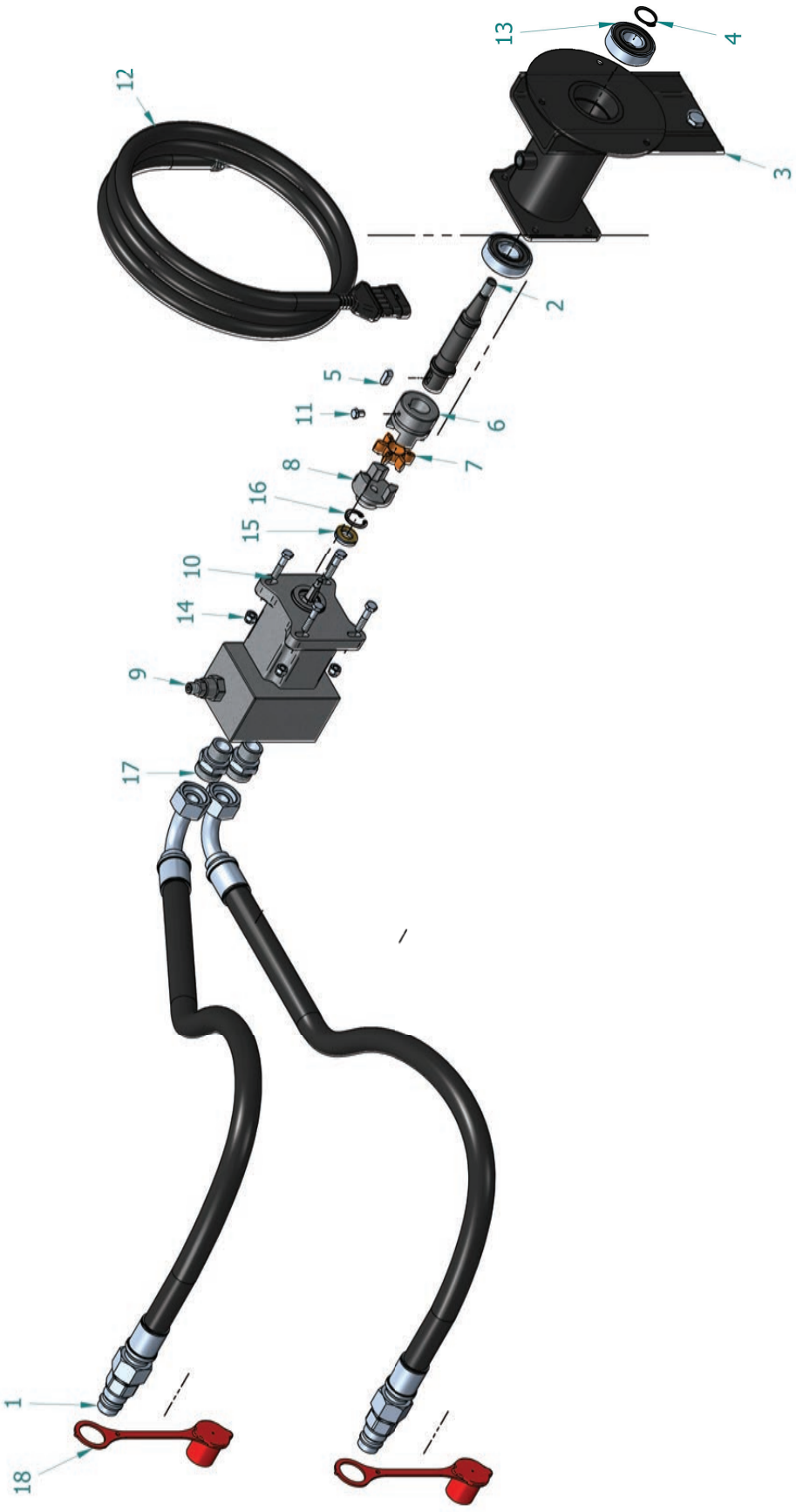
HYDRAULIC FAN

complete: 0404010001

item code	item number	designation	quantity
0404010008	1	basket for hydraulik fan	1
1901080001	2	flat Head Screw M6x10	7
1908030001	3	spring ring DIN 127B-10	1
1901080002	4	flat Head Screw M4x10	8
1902010009	5	hexagonal nut M6	5
0404010009	6	blower half small section	1
0404010010	7	wings for fan	1
1902060001	8	hexagonal nut M10 - Linksgewinde	1
0404010011	9	blower half big section	1
1902010010	10	hexagonal nut M4	5
1916020001	11	foam 20x5 l=180mm	3
1901090001	12	thumbscrew M5x12	3
0404010012	13	filter mat	1
1912100001	14	blast hose Ø=75mm	1
1916010002	15	sealing Cap ZK 30/25	1
1912070002	16	hose clamp 70-90	1

MOTOR WITH CLUTCH

complete: 0404010001



MOTOR WITH CLUTCH

complete: 0404010001

item code	item number	designation	quantity
1912020012	1	hydraulik hose for hydraulik fan	2
1912090001	2	shaft for hydraulic fan	1
0404010002	3	fan holder	1
1904030002	4	circlip 20x1,2	1
1904040001	5	wedge AS 6x6x16	1
0404010003	6	clutch - hub with Ø =20mm	1
0404010004	7	clutch - sprocket 92 Shore	1
0404010005	8	clutch- Hub with taper	1
0404010006	9	hydraulic motor for fan	1
1901010043	10	hexagonal screw M6x30	4
1901010044	11	hexagonal screw M5x8	1
1918010002	12	speed sensor with cable and connector	1
1906030004	13	deep groove ball bearings - 6204 -22RS	2
1902010009	14	hexagonal nut M6	3
0404010007	15	high pressure seal	1
1904030004	16	circlip 22x1	1
1912030004	17	screwed	2
1912040001	18	dust cap red	2