

## MANUAL OF USE AND MAINTENANCE

# ROTARY HARROW ROTEX-L



## PREFACE

### **This manual is an integral part of the machine.**

It must always accompany the machine and be kept within reach of the operator.  
The enclosures mentioned are an integral part of this manual.

### **The purpose of this manual.**

This manual gives information for the correct and safe use of the machine.  
The owner must read this manual carefully before work with the machine.

### **Responsibility of the owner**

The owner is responsible for accidents or damages caused to people or things due to negligence in following the instructions in this manual.

### **Assistance in using this manual**

Explanations: contact the dealer.

Request for additional copies of the manual: in case of loss or wear and tear, or in case one wants the manual in a different language, the customer should ask the dealer or manufacturer.

### **Pay attention to the warning signals**



**<Danger>**: indicates a situation that is potentially dangerous which, if not avoided, will cause death or serious damage.



**<Warning>**: indicates a situation that is potentially dangerous which, if not avoided, will cause death or serious damage.



**<Caution>**: indicates a situation that is potentially dangerous which, if not avoided, can cause minor to moderate damage or it indicates to be careful about an unsafe procedure.

**<Important>**: indicates instructions that must be followed precisely in order to avoid damage to the product, process or environment.

**<Note>**: indicates supplementary information.

|                    |
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| <b>DESCRIPTION</b> |
|--------------------|

## **FUNCTION OF USE**

The machine, thanks to the large range of types models and versions all configurable through many available variants according to specific requirement, carries out all the function related with tools rotation in various work environment (open field, vineyards, orchards, flower gardens, parks, vegetable gardens), in all type of ground whatever its composition (sandy soil, medium mixture, clay) and consistency (crumbly, hard, semi-plastic) may be.

The use of a technical constructive concept trended to the search of high performances, reduction of troubles and durability, improves the power/consumption ratio of the tractor thanks to the elasticity of the machine frame, to the tools shape and to many original technical solutions.

## **PERFORMANCES**

The machine is connected to the tractor by a 3° point hitch which gives a movement of translation and a cardan shaft connected to the PTO which gives a movement of translation to the tools carrier.

The working width is fix and it is determined by the choice of the machine type.

The working depth is adjustable by a rear roller.

The working area is fix.

## **PERFORMANCE LIMITS**

- ❑ Maximum forwarding speed: 5 km/h.
- ❑ Speeds higher than the maximum can compromise the condition of the machine, the quality of the work and the safety of the operator.
- ❑ Maximum power applicable to the gear box: from 13 to 59 kW  $\pm$  5% at 540 g/min depending from the models.
- ❑ Higher power than one indicated, can damage irreparably the transmission gear box; especially during heavy works.
- ❑ Maximum working depth: from 180 to 210 mm depending from the model.

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## **STANDARD FEATURES**

- **Shear bolt cardan shaft.**

## **VARIANTS & ACCESSORIES**

- **Wire roller.**
- **Cage roller.**
- **Spiked roller.**
- **Levelling blade.**
- **Seeder.**

|                                  |
|----------------------------------|
| <b>TECHINICAL SPECIFICATIONS</b> |
|----------------------------------|

### CHARACTERISTICS FOR MODEL

| Model          | Type | Power |      | Working width |      | Weight |      | Maximum working depth |      | Total width |      | N° of tools |          |
|----------------|------|-------|------|---------------|------|--------|------|-----------------------|------|-------------|------|-------------|----------|
|                |      | HP    | KW   | cm.           | inch | Kg.    | lbs. | cm.                   | inch | cm.         | inch | n° rotors   | n° teeth |
| <b>ROTEX-L</b> | 88   | 12-25 | 9-19 | 88            | 35   | 127    | 280  | 16                    | 7    | 96          | 38   | 5           | 10       |
|                | 104  | 12-25 | 9-19 | 104           | 41   | 145    | 320  | 16                    | 7    | 112         | 44   | 6           | 12       |
|                | 120  | 12-25 | 9-19 | 120           | 48   | 160    | 353  | 16                    | 7    | 128         | 51   | 7           | 14       |
|                | 136  | 12-25 | 9-19 | 136           | 54   | 170    | 375  | 16                    | 7    | 144         | 57   | 8           | 16       |

## SAFETY INFORMATION

### GENERAL REGULATIONS

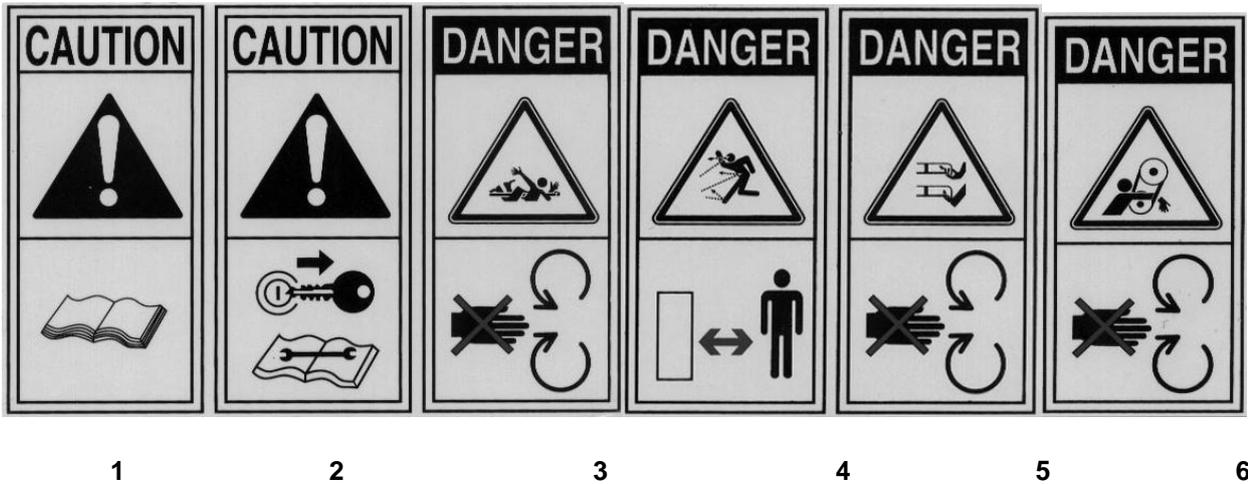
- Only work in daylight.
- To prevent damage due to lunch of objects or parts of blades, before to start job be sure that any persons or animals should be in the radius of 50 meters from the machine.
- Wear long pants and heavy shoes.
- The protections are integral part of the machine: always work with the protections.
- Make sure that the 4 wheels of all components be adjusted to the same cutting height.
- Pay attention to the soil: make sure that are not stones, sticks, iron wires, etc...
- Pay attention using the machine on slopes: proceed to the maximum slope and never work in slanting direction.
- Before leaving the driver's seat, turn off the engine and disengage the transmission engine-shaft.
- Check immediately the machine if it touches foreign objects.
- Check immediately the machine if there are unusual strong vibrations.
- Change quickly defective parts.

### SAFETY RESTRICTIONS

Children and people who are not familiar with these instructions must not be permitted to use the machine. Local regulations can restrict the use of the machine in accordance to the age.

## SAFETY SIGNS ON THE MACHINE

In this section, the safety signs on the machine are reproduced and explained.



1. Read the operator manual.
2. Disconnect the tractor key before maintenance and repair operations.
3. Stay at safety distance from blades when machine is moving.
1. Danger of flying objects. Stay at safety distance.
4. Stay at safety distance from blades when machine is moving.
5. Stay at safety distance from blades when machine is moving.

**The safety signs on the machine must always be legible.**

In case of damage, the labels of the signs must be replaced.

In the case of machine replacement parts that have safety signs, the signs must be replaced.

**Supplying of new safety labels and the application procedure**

Contact your dealer to receive new safety labels with instructions for application.

## INSTRUCTIONS FOR USE

### BEFORE BEGINNING WORK

- a) Connect the machine to the tractor as follows :
  - 1. Insert the lifting arms of the tractor in the lower attachment points of the machine, lock by safety pin.
  - 2. Connect the tractor linkage to the 3° point hitch of the machine (triangle vertex), insert the pin and lock with safety pin.
- b) Check the gearbox and transmission oil level.
- c) With the machine raised, go to the working area.
- d) Connect the tractor PTO to the machine PTO.
- e) Check that PTO chain is locked to prevent the protection sheet of PTO rotating.

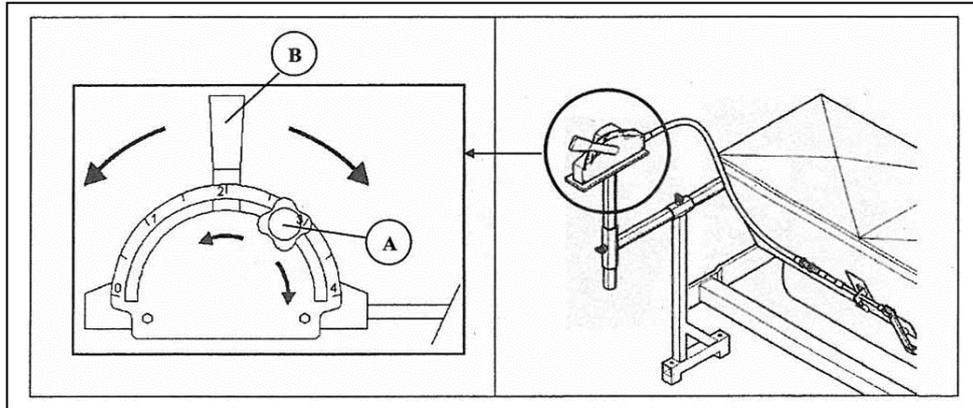
### BEGINNING WORK

- a) Keep people and animals at least 65 feet radius all around the machine.
- b) Pull down the machine until the hoes touch the ground.
- c) Connect PTO power and gradually bring it to 540 r.p.m...
- d) Pull down completely the machine and start to work.

### AT THE END OF WORK

- a) Stop the tractor.
- b) Raise the machine until the hoes goes out from ground.
- c) Disconnect PTO power.
- d) Disconnect tractor PTO from machine PTO.
- e) Raise completely the machine

## SEEDER ADJUSTMENT



- a. Fill the hopper with the seed then close the cover.
- b. To set the quantity of seed that will fall. operate as follow :
  1. Move the latch knob "A" in the desired position.
  2. Rise the lock knob placed on the upper part of the lever "B" then turn the lever clock wise to increase the quantity of seed that will fall, turn counter clock wise do decrease. To increase or decrease the dosage, modify the position of the latch knob then move the lever.

To verify the weight (Kg) that will be sown (generally the correct quantity in kg per hectare is indicated on seed bag), follow the instructions below:

| Model      | Rear roll rotations | Factor K   |
|------------|---------------------|------------|
| <b>88</b>  | <b>30</b>           | <b>400</b> |
| <b>104</b> | <b>25</b>           | <b>400</b> |
| <b>120</b> | <b>22</b>           | <b>400</b> |
| <b>136</b> | <b>19</b>           | <b>400</b> |

Rise the seeder till the rear roll can turn free.

Place a towel under the seeder spreader to collect the seed.

Fill seed inside the seeder then turn the rear roll clockwise many times as showed on the above table, choose the line that corresponds to your seeder model.

Collect and weight the seed in the towel.

The seed weight multiplied per Factor K will be the total weight sowed per hectare.

In case of discrepancy respect to the desired weight, act on the control level to increase or decrease the seeder opening, then repeat weight verification.

|                                 |
|---------------------------------|
| <b>MAINTENANCE INSTRUCTIONS</b> |
|---------------------------------|

On diagram "A" the maintenances are indicated with their terms to effect on the machine.  
 Not follow the scheduled terms can compromise the functionality of the machine and in this case the warranty is not applicable.

**DIAGRAM "A" SCHEDULED MAINTENANCE**

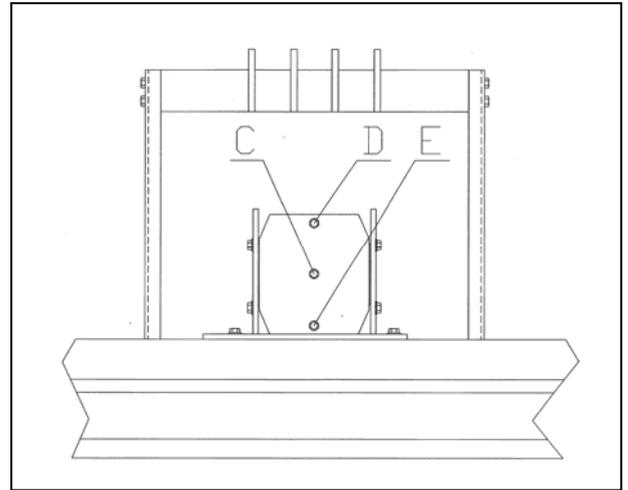
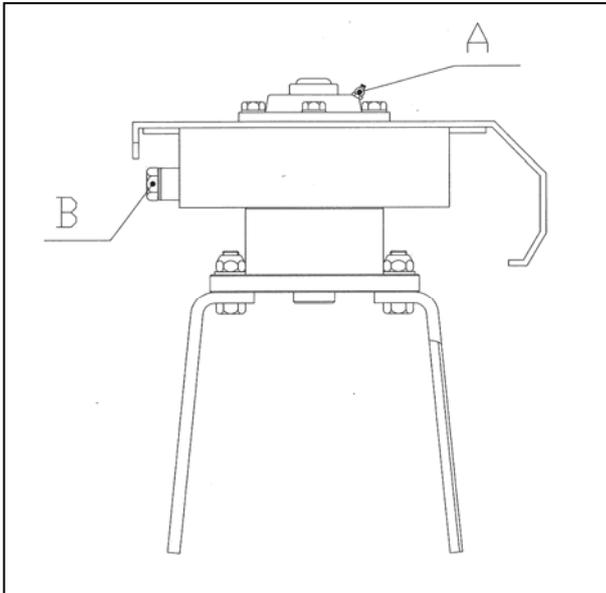
|                     | <b>FIRST START</b> | <b>AFTER 10 HOURS WORK</b> | <b>EVERY 30 H.</b> | <b>EVERY 500 H.</b> | <b>END OF SEASON</b> | <b>BEGIN WROK</b> | <b>END WORK</b> |
|---------------------|--------------------|----------------------------|--------------------|---------------------|----------------------|-------------------|-----------------|
| <b>MACHINE</b>      | Greasing           | Greasing                   | Greasing           |                     | Cleaning<br>Greasing |                   | Cleaning        |
| <b>GEARBOX</b>      | Oil level          | Fill oil                   | Fill oil           | Oil replacement     |                      |                   |                 |
| <b>TRANSMISSION</b> | Oil level          | Fill oil                   | Oil level          | Oil replacemnet     |                      |                   |                 |
| <b>SCREWS</b>       |                    | Locking                    | Locking            |                     |                      |                   |                 |
| <b>TOOLS</b>        |                    |                            | Check              |                     | Check                | Check             | Check           |

## 1. GREASING

At the scheduled time on diagram "A", grease point "A".

Greasing point is equipped with greaser HYDRAULIC TYPE MODEL "A" UNI 7663.

To greasing use only MULTIFUNCTIONAL GREASE LITHIUM BASED Type NLGI 2.



## 2. OIL LEVEL – OIL REPLACEMENT IN GEARBOX

At the scheduled time on diagram "A" verify the level and replace oil in the gearbox.

To fill oil use only OIL SAE 140 EP.

Gearbox capacity: 1 L.

a) To check the oil level in gear box, operate as follows :

1. With the machine on level unscrew the level plug "C" and check that oil touches lower hole rim.
2. If the level it's ok screw and lock plug "C".
3. If the level it's low, unscrew plug "D" and fill oil.
4. When the level it's ok screw and lock plugs "C" and "D".

b) To replace oil in the gearbox, operate as follows:

1. With the machine on level unscrew the level plugs "C", "D" and "E" and drain completely oil.
2. Screw the plug "E".
3. Fill new oil through the hole "D" up to oil touches lower hole rim "C".
4. When the level is ok, screw the plugs "C" and "D".

## 3. OIL LEVEL – OIL TRANSMISSION REPLACEMENT

At the scheduled time on diagram "A" check the level or replace oil in the transmission.

To fill oil use only OIL SAE 140 EP.

Tank capacity: from 3,0 L, 3,4 L, 3,8 L , 4,2 L depending from the model.

c) To check the oil in the transmission, operate as follows:

1. With the machine on level unscrew the plug "B" and check that oil touches lower hole rim.
2. If the level is ok, lock the plug "B".
3. If the level is low, fill oil.
4. When the level is ok, lock the plug "B".

d) To replace oil in the transmission, operate as follows:

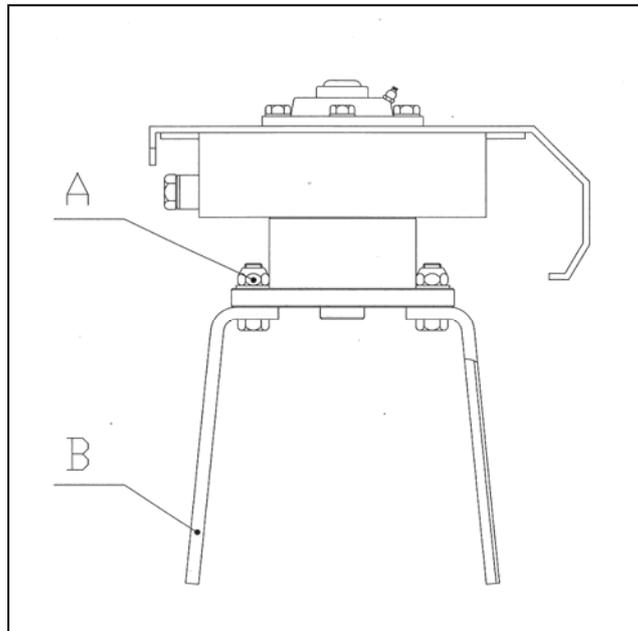
1. Unscrew the plug "B", turn backward the machine and drain completely oil.
2. Introduce the new oil through the hole "B" up to oil touches lower hole rim.
3. When level is ok, lock the plug "B".

#### 4. TOOLS REPLACEMENT

a) To replace the tools, operate as follows:

1. Unscrews the two screws "A" which lock the tools to replace.
2. Take out the two screws and remove the tool "B".
3. Place the new tool and the two screws "A".
4. Lock the screws "A" with pneumatic wrench.
5. Repeat this operation for all the tools to replace.

**ATTENTION: each rotor is equipped with a couple of right and left tools according to the position, don't invert the right tools with the left ones.**



**PROBLEMS SOLVING**

| <b>TROUBLES</b>  | <b>CAUSES AND SOLUTIONS</b>  |
|--|--|
| <b>Insufficient working depth</b>  | <ul style="list-style-type: none"> <li>-Decrease the forwarding speed</li> <li>-Tools are not sharpened or damaged</li> </ul>  |
| <b>Tools don't penetrate</b><br><b>Rotary harrow bounces on the round and vibrates</b> | <ul style="list-style-type: none"> <li>-Broken or damaged tools</li> <li>-Check the tools assembling</li> <li>-Foreign objects between hoes - clean</li> <li>-Decrease the forwarding speed</li> <li>-Soil too dry and hard</li> </ul> |
| <b>Rotor compactness, obstruction</b>  | <ul style="list-style-type: none"> <li>-Soil too wet</li> <li>-Reduce working depth</li> <li>-Increase number of revolutions of the rotor</li> </ul>   |
| <b>Excessive tilling of the soil</b>   | <ul style="list-style-type: none"> <li>-Increase forwarding speed</li> <li>- Decrease number of revolutions of the rotor</li> </ul>  |
| <b>Poor tilling of the soil</b>  | <ul style="list-style-type: none"> <li>- Decrease the forwarding speed</li> <li>-Increase number of revolutions of the rotor</li> </ul>  |

## TRANSPORT

Except when working, moving the machine takes place when the machine is standing still and the transmission is disconnected.

<Important>: keep speed low avoiding holes and ground roughness.

<Note> when on the road, obey existing traffic laws. Exhibit the signal signs on the rear ends. Respect any local laws there may be.

<Note> Lock the lifting bars of the tractor with the chain and tightners. They must be parallel to the bars.

## STORAGE

Store the machine in a dry place that isn't dusty.

## INFORMATION ON DEMOLITION



At the end of its working life, the machine must be sent to be demolished and that can only be done by an authorized authority, in accordance with the national laws in force for the environment. Therefore it is necessary to get information from the qualified local authorities on the procedure to follow. The machine is mainly composed of: iron materials and paints.

## WARRANTY

The machine is covered by the manufacturer warranty for a period of 24 months.

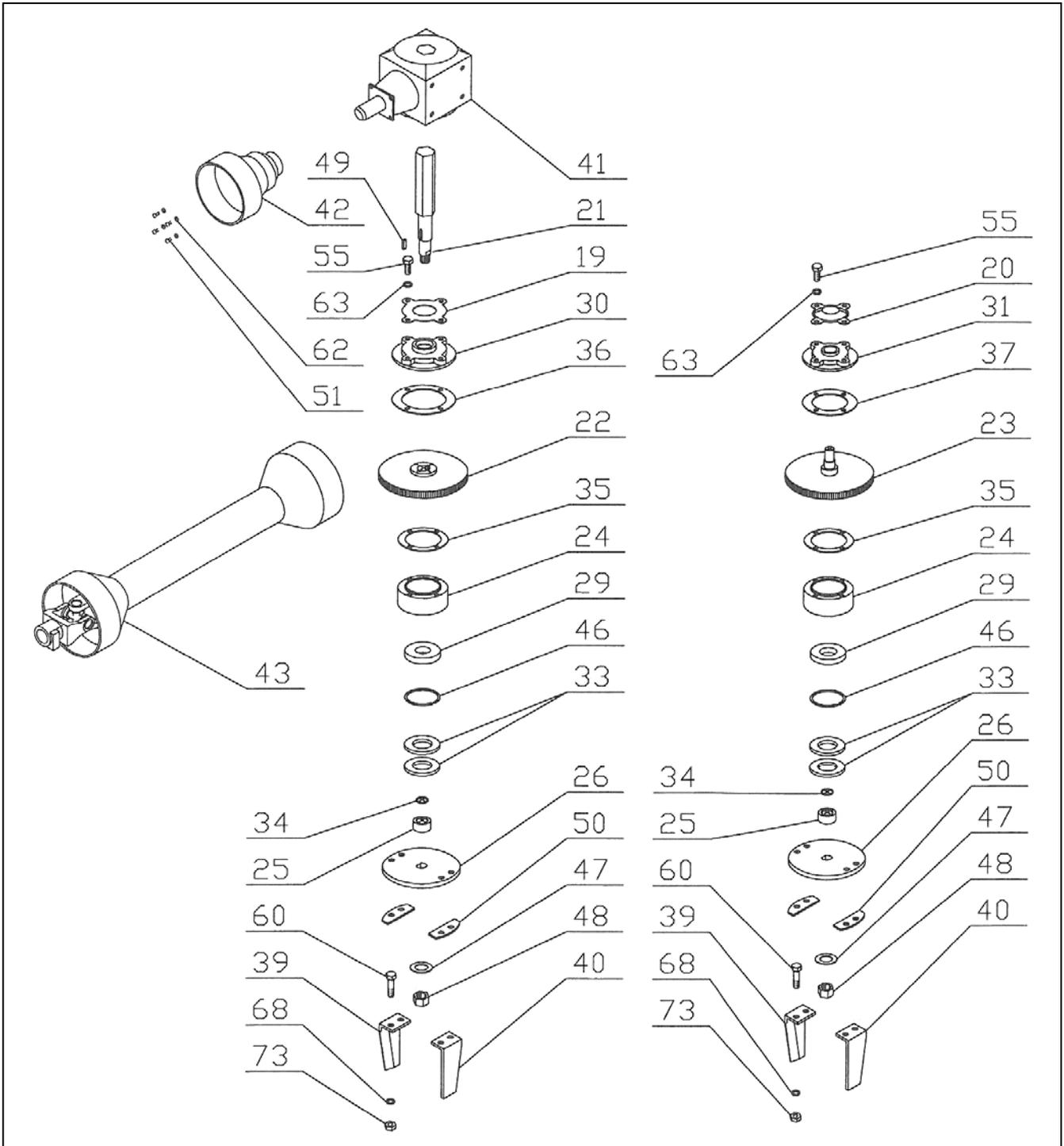
The warranty is not applicable when:

- a) The maintenance work has not been done correctly.
- b) The machine has been used out of its own service.
- c) The machine has been transformed or modified without the manufacturer's written authorization.

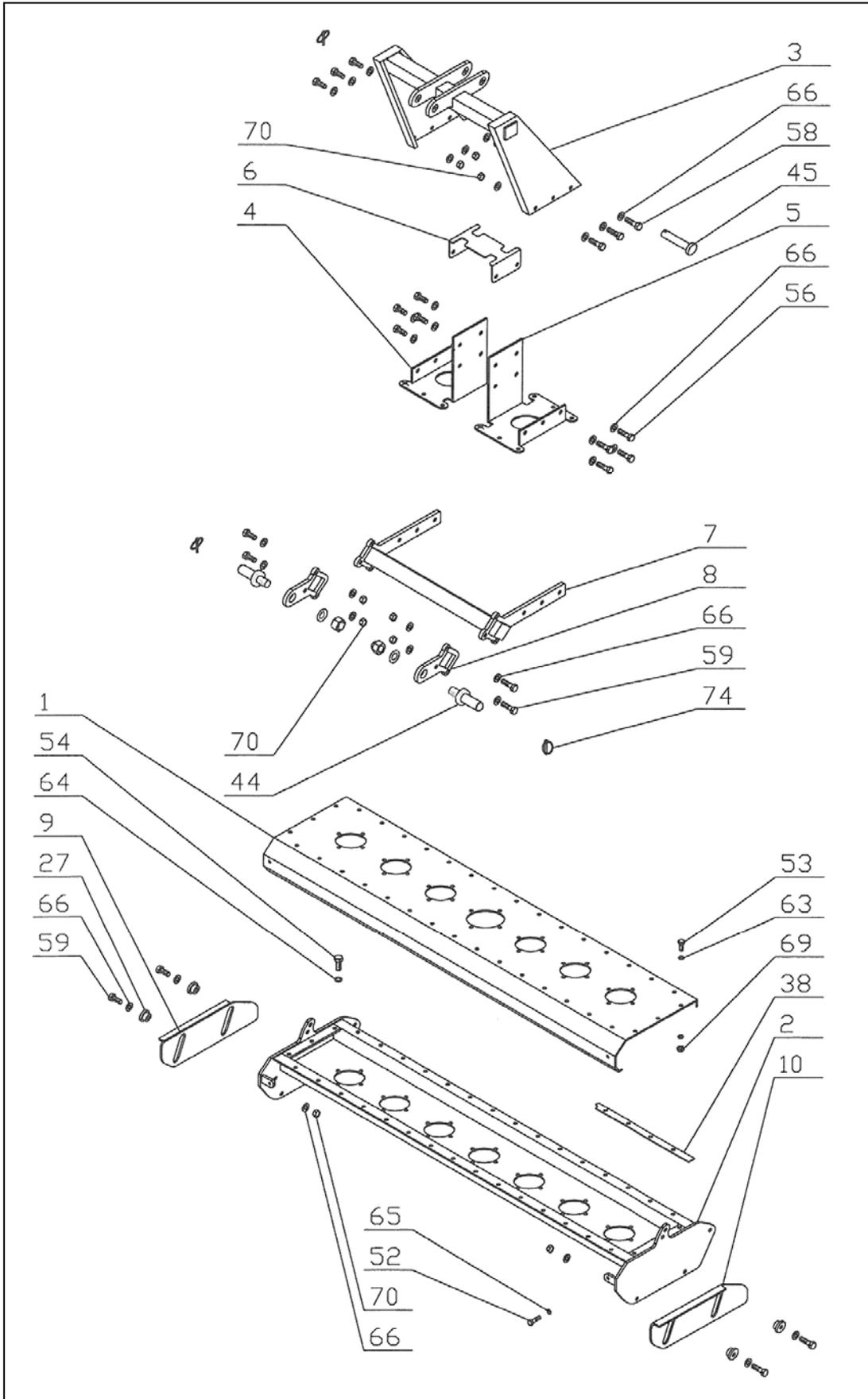


# **SPARE PART AND ACCESSORIES**

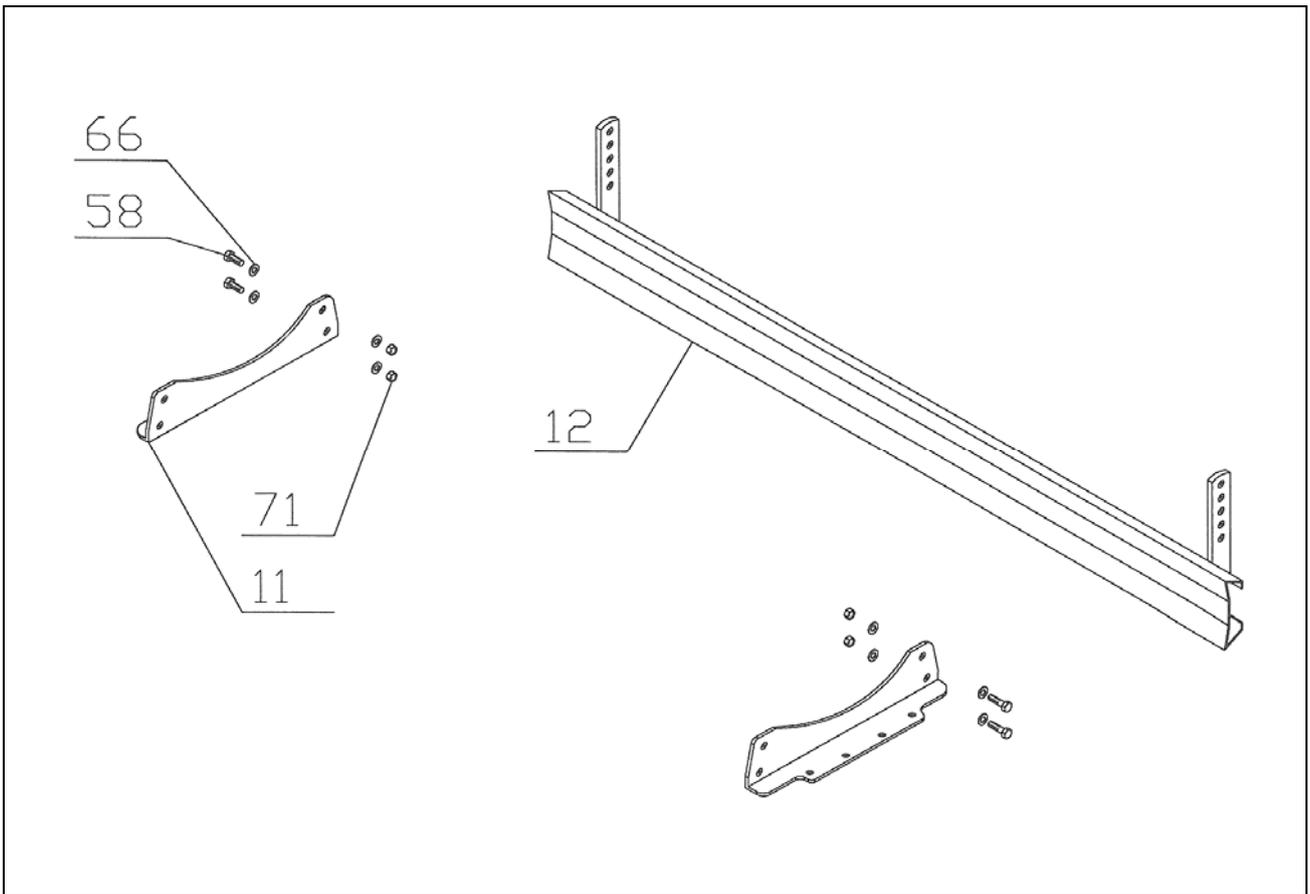
ROTEX MECHANISMS



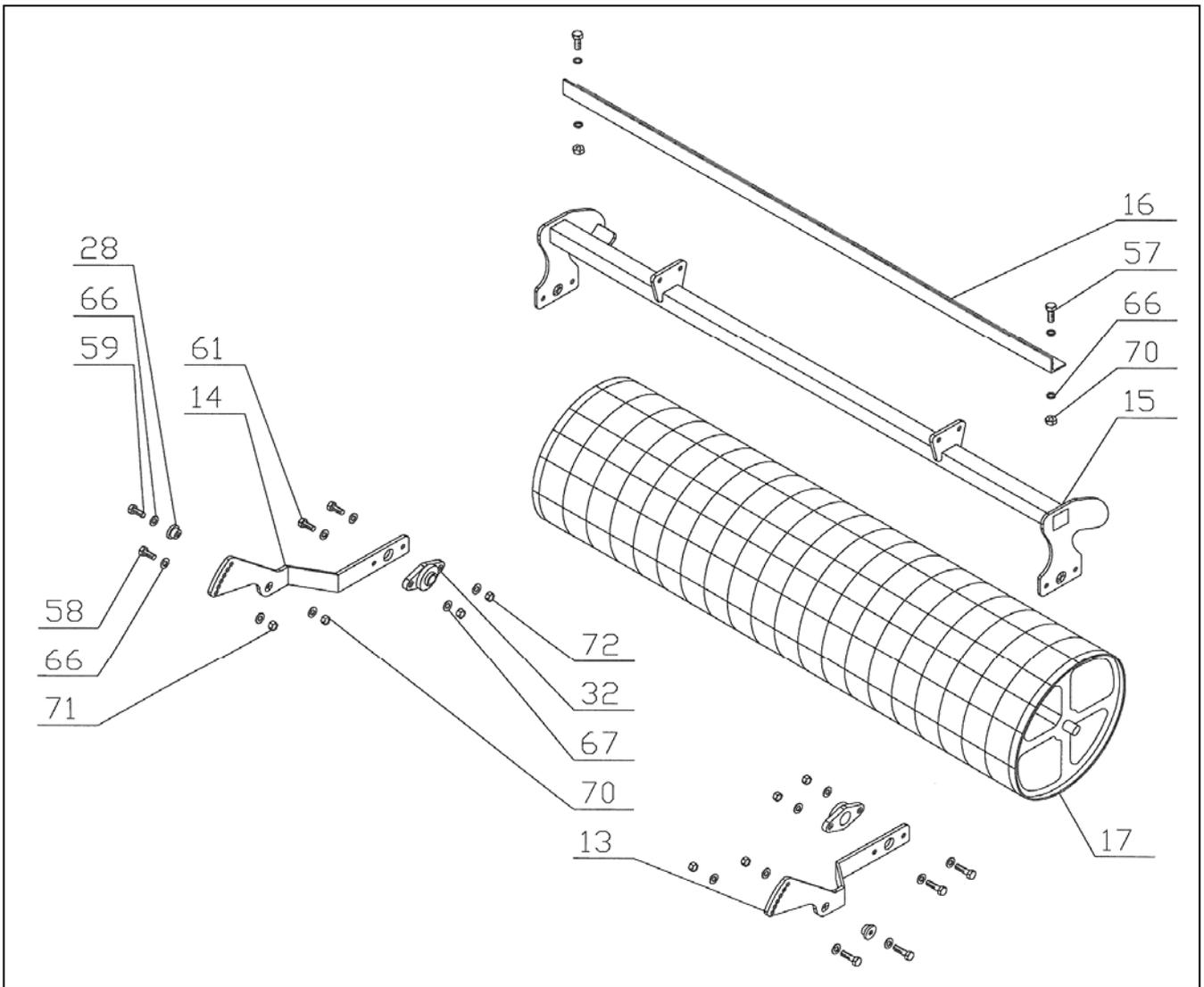
ROTEX-L SHEET



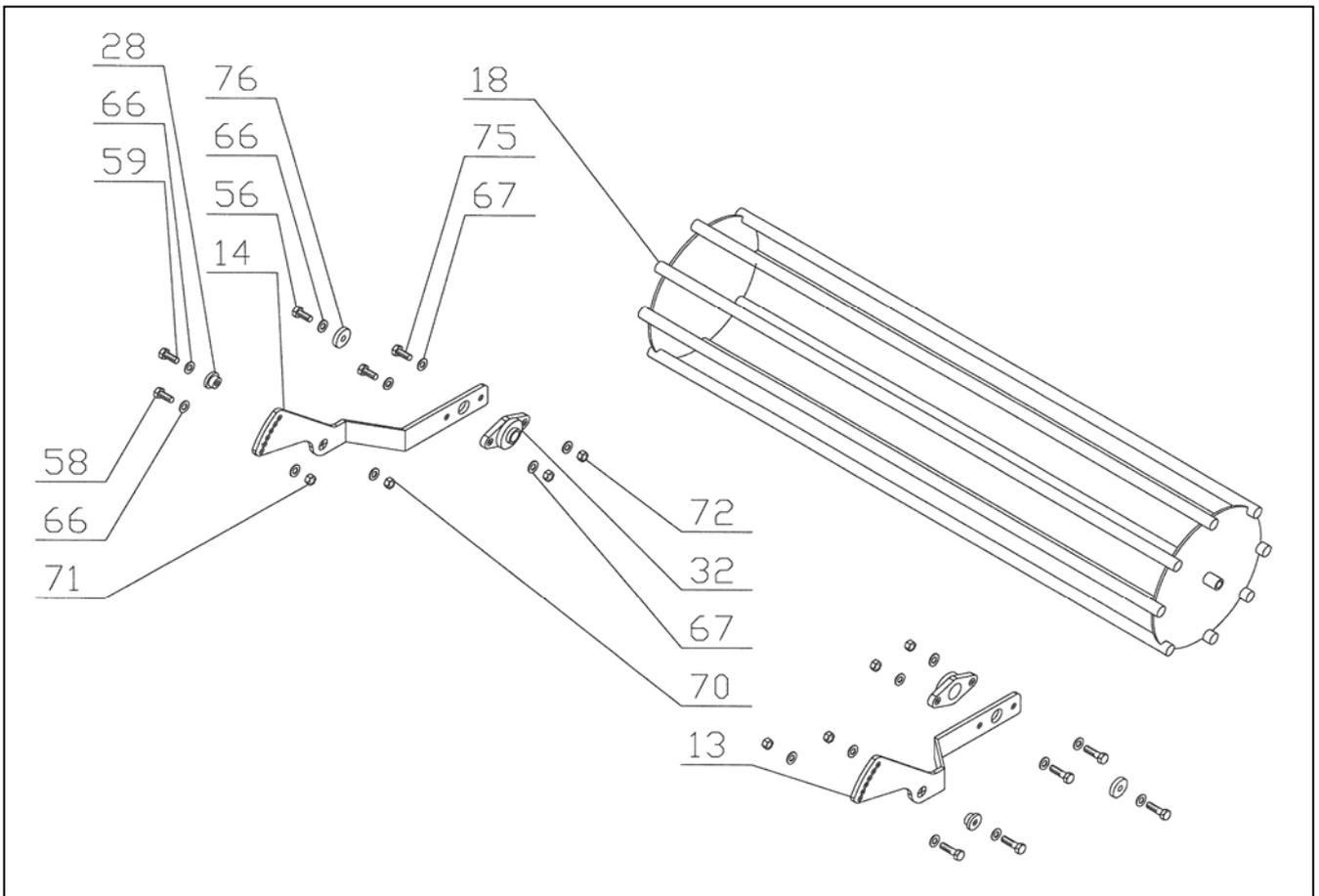
LEVELLING BLADE ROTEX-L



ROTEX-L WIRE ROLLER



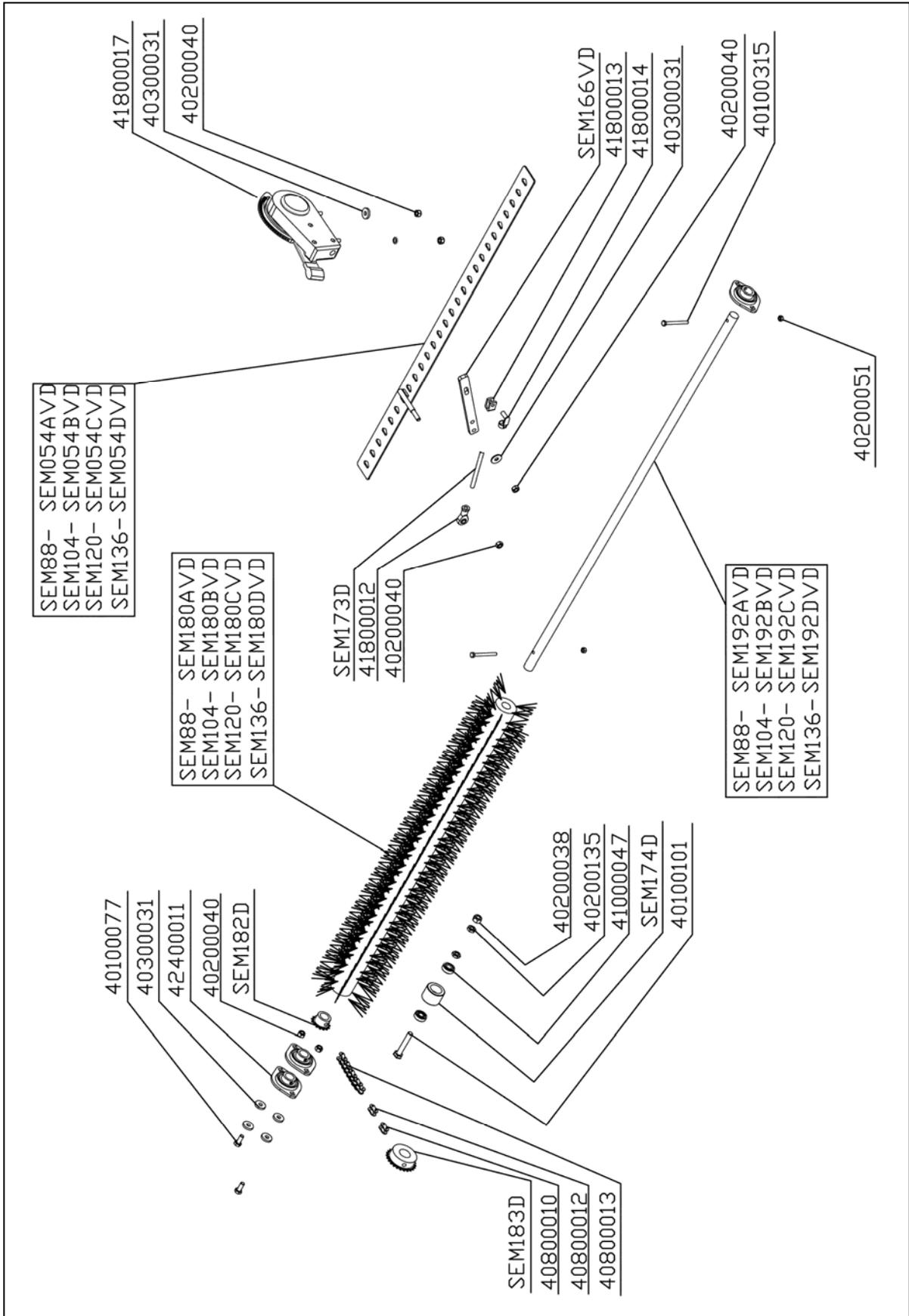
ROTEX-L CAGE ROLLER



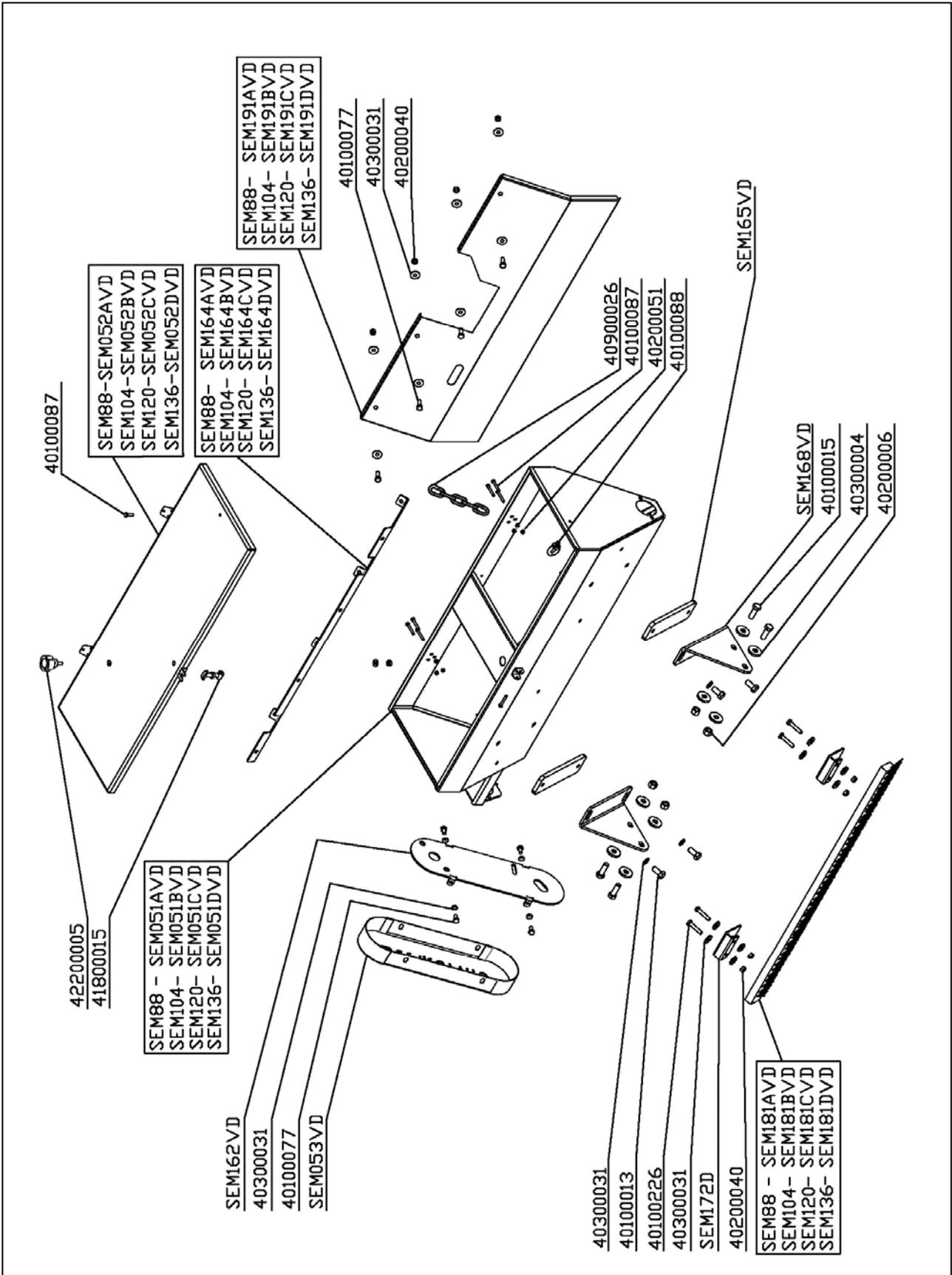
| Pos | Code      | Description               | Quantity |         |         |         |
|-----|-----------|---------------------------|----------|---------|---------|---------|
|     |           |                           | 80       | 10<br>4 | 12<br>0 | 13<br>6 |
| 1   | ERP100AVD | COVER                     | 1        |         |         |         |
| 1   | ERP100BVD | COVER                     |          | 1       |         |         |
| 1   | ERP100CVD | COVER                     |          |         | 1       |         |
| 1   | ERP100DVD | COVER                     |          |         |         | 1       |
| 2   | ERP101AVD | MAIN FRAME                | 1        |         |         |         |
| 2   | ERP101BVD | MAIN FRAME                |          | 1       |         |         |
| 2   | ERP101CVD | MAIN FRAME                |          |         | 1       |         |
| 2   | ERP101DVD | MAIN FRAME                |          |         |         | 1       |
| 3   | ERP102VD  | III° POINT HITCH          | 1        | 1       | 1       | 1       |
| 4   | ERP506VD  | RIGHT GEAR BOX SUPPORT    | 1        | 1       | 1       | 1       |
| 5   | ERP507VD  | LEFT GEAR BOX SUPPORT     | 1        | 1       | 1       | 1       |
| 6   | ERP508VD  | GEAR BOX COVER            | 1        | 1       | 1       | 1       |
| 7   | ERP103VD  | SUPPORT                   | 1        | 1       | 1       | 1       |
| 8   | ERP322VD  | LOWER HITCH               | 2        | 2       | 2       | 2       |
| 9   | ERP513VD  | RIGHT TAIL BOARD          | 1        | 1       | 1       | 1       |
| 10  | ERP514VD  | LEFT TAIL BOARD           | 1        | 1       | 1       | 1       |
| 11  | ERP518VD  | BLADE SUPPORT             | 2        | 2       | 2       | 2       |
| 12  | ERP107AVD | BLADE                     | 1        |         |         |         |
| 12  | ARP107BVD | BLADE                     |          | 1       |         |         |
| 12  | ERP107CVD | BLADE                     |          |         | 1       |         |
| 12  | ERP107DVD | BLADE                     |          |         |         | 1       |
| 13  | ERP544VD  | LEFT ROLL ARM             | 1        | 1       | 1       | 1       |
| 14  | ERP543VD  | RIGHT ROLL ARM            | 1        | 1       | 1       | 1       |
| 15  | ERP109AVD | SCRAPER SUPPORT           | 1        |         |         |         |
| 15  | ERP109BVD | SCRAPER SUPPORT           |          | 1       |         |         |
| 15  | ERP109CVD | SCRAPER SUPPORT           |          |         | 1       |         |
| 15  | ERP109DVD | SCRAPER SUPPORT           |          |         |         | 1       |
| 16  | ERP537AVD | SCRAPER                   | 1        |         |         |         |
| 16  | ERP537BVD | SCRAPER                   |          | 1       |         |         |
| 16  | ERP537CVD | SCRAPER                   |          |         | 1       |         |
| 16  | ERP537DVD | SCRAPER                   |          |         |         | 1       |
| 17  | ERP097AVD | WIRE ROLL                 | 1        |         |         |         |
| 17  | ERP097BVD | WIRE ROLL                 |          | 1       |         |         |
| 17  | ERP097CVD | WIRE ROLL                 |          |         | 1       |         |
| 17  | ERP097DVD | WIRE ROLL                 |          |         |         | 1       |
| 18  | ERP098AVD | CAGE ROLL                 | 1        |         |         |         |
| 18  | ERP098BVD | CAGE ROLL                 |          | 1       |         |         |
| 18  | ERP098CVD | CAGE ROLL                 |          |         | 1       |         |
| 18  | ERP098DVD | CAGE ROLL                 |          |         |         | 1       |
| 19  | ERP106VD  | MIDDLE SUPPORT PROTECTION | 1        | 1       | 1       | 1       |
| 20  | ERP523VD  | SIDE SUPPORT PROTECTION   | 4        | 5       | 6       | 7       |
| 21  | ERP527D   | MIDDLE SHAFT              | 1        | 1       | 1       | 1       |
| 22  | ERP104SD  | MIDDLE GEAR               | 1        | 1       | 1       | 1       |
| 23  | ERP105SD  | SIDE GEAR                 | 4        | 5       | 6       | 7       |
| 24  | ERP532VD  | HUB                       | 5        | 6       | 7       | 8       |
| 25  | ERP529D   | GEAR SPACER               | 5        | 6       | 7       | 8       |
| 26  | ERP533VD  | TOOLS HOLDER              | 5        | 6       | 7       | 8       |
| 27  | SRM233ZD  | TAIL BOAR BUSH            | 4        | 4       | 4       | 4       |
| 28  | ERP328ZD  | ROLL ARM BUSH             | 2        | 2       | 2       | 2       |
| 29  | 41000005  | BEARING 6205              | 5        | 6       | 7       | 8       |
| 30  | 42400008  | MIDDLE SUPPORT UCF 206    | 1        | 1       | 1       | 1       |
| 31  | 42400012  | SIDE SUPPORT UCF 204      | 4        | 5       | 6       | 7       |
| 32  | 42400006  | ROLL SUPPORT UCFL 205     | 2        | 2       | 2       | 2       |
| 33  | 41100037  | SEAL 52x40x7              | 10       | 12      | 14      | 16      |
| 34  | 41200009  | OR 3100                   | 5        | 6       | 7       | 8       |

| Pos | Code     | Description                   | Quantity |         |         |         |
|-----|----------|-------------------------------|----------|---------|---------|---------|
|     |          |                               | 80       | 10<br>4 | 12<br>0 | 13<br>6 |
| 35  | ERP539D  | HUB SEAL                      | 5        | 6       | 7       | 8       |
| 36  | ERP166D  | MIDDLE SUPPORT SEAL           | 1        | 1       | 1       | 1       |
| 37  | ERP540D  | SIDE SUPPORT SEAL             | 4        | 5       | 6       | 7       |
| 38  | 42500038 | COVER SEAL                    | 1        |         |         |         |
| 38  | 42500039 | COVER SEAL                    |          | 1       |         |         |
| 38  | 42500040 | COVER SEAL                    |          |         | 1       |         |
| 38  | 42500041 | COVER SEAL                    |          |         |         | 1       |
| 39  | ERP530D  | RIGHT TOOTH                   | 4        | 6       | 8       | 8       |
| 40  | ERP547D  | LEFT TOOTH                    | 6        | 6       | 6       | 8       |
| 41  | 42000001 | GEAR BOX 9.259.871            | 1        | 1       | 1       | 1       |
| 42  | 41900005 | GEAR BOX PROTECTION           | 1        | 1       | 1       | 1       |
| 43  | 42600019 | PTO SHAFT IV° CAT. L=700      | 1        | 1       | 1       | 1       |
| 44  | SRM220D  | I° CATEGORY PIN               | 2        | 2       | 2       | 2       |
| 45  | 43700012 | III° POINT PIN                | 1        | 1       | 1       | 1       |
| 46  | 40400025 | SEEGER ø52 UNI 7437           | 5        | 6       | 7       | 8       |
| 47  | 40300069 | WASHER ø40xø20,4x2,5 DIN 2093 | 5        | 6       | 7       | 8       |
| 48  | 40200161 | NUT MB20 DIN 982              | 5        | 6       | 7       | 8       |
| 49  | 40500001 | KEY 8x7x35 UNI 6604           | 1        | 1       | 1       | 1       |
| 50  | ERP521D  | TOOTH SPACER                  | 10       | 12      | 14      | 16      |
| 51  | 40100011 | SCREW M8x15 UNI 5739          | 4        | 4       | 4       | 4       |
| 52  | 40100043 | SCREW M10x25 UNI 5739         | 2        | 2       | 2       | 2       |
| 53  | 40100012 | SCREW M10x30 UNI 5739         | 26       | 30      | 34      | 38      |
| 54  | 40100230 | SCREW M10x30 UNI 5739 – 10.9  | 20       | 24      | 28      | 32      |
| 55  | 40100183 | SCREW M10x55 UNI 5739         | 20       | 24      | 28      | 32      |
| 56  | 40100013 | SCREW M12x25 UNI 5739         | 10       | 10      | 10      | 10      |
| 57  | 40100015 | SCREW M12x35 UNI 5739         | 2        | 2       | 2       | 2       |
| 58  | 40100023 | SCREW M12X40 UNI 5739         | 12       | 12      | 12      | 12      |
| 59  | 40100061 | SCREW M12x45 UNI 5739         | 10       | 10      | 10      | 10      |
| 60  | 40100229 | SCREW MB14x45 UNI 5740        | 20       | 24      | 24      | 32      |
| 61  | 40100145 | SCREW M14x55 UNI 5739         | 4        | 4       | 4       | 4       |
| 62  | 40300031 | WASHER ø 8 UNI 6593           | 4        | 4       | 4       | 4       |
| 63  | 40300003 | WASHER ø 10 UNI 6592          | 72       | 84      | 96      | 108     |
| 64  | 40300066 | WASHER CONTACT ø 10 UNI 7604  | 20       | 24      | 28      | 32      |
| 65  | 40300013 | WASHER ø 10 UNI 6593          | 2        | 2       | 2       | 2       |
| 66  | 40300004 | WASHER A ø 12 UNI 6592        | 62       | 62      | 62      | 62      |
| 67  | 40300009 | WASHER ø 14 UNI 6592          | 8        | 8       | 8       | 8       |
| 68  | 40300064 | WASHER CONTACT ø 14 UNI 7604  | 20       | 24      | 28      | 32      |
| 69  | 40200003 | NUT M10 DIN 980               | 26       | 30      | 34      | 38      |
| 70  | 40200006 | NUT M12 DIN 980               | 18       | 18      | 18      | 18      |
| 71  | 40200037 | NUT M12 DIN 982               | 6        | 6       | 6       | 6       |
| 72  | 40200011 | NUT M14 DIN 980               | 4        | 4       | 4       | 4       |
| 73  | 40200155 | NUT MB14 DIN 980              | 20       | 24      | 24      | 32      |
| 74  | 41300001 | SPRING PIN ø 10               | 2        | 2       | 2       | 2       |
| 75  | 40100158 | SCREW M14x45 UNI 5739         | 4        | 4       | 4       | 4       |
| 76  | ERP564VD | CAGE ROLL STOPPER             | 2        | 2       | 2       | 2       |
|     |          |                               |          |         |         |         |

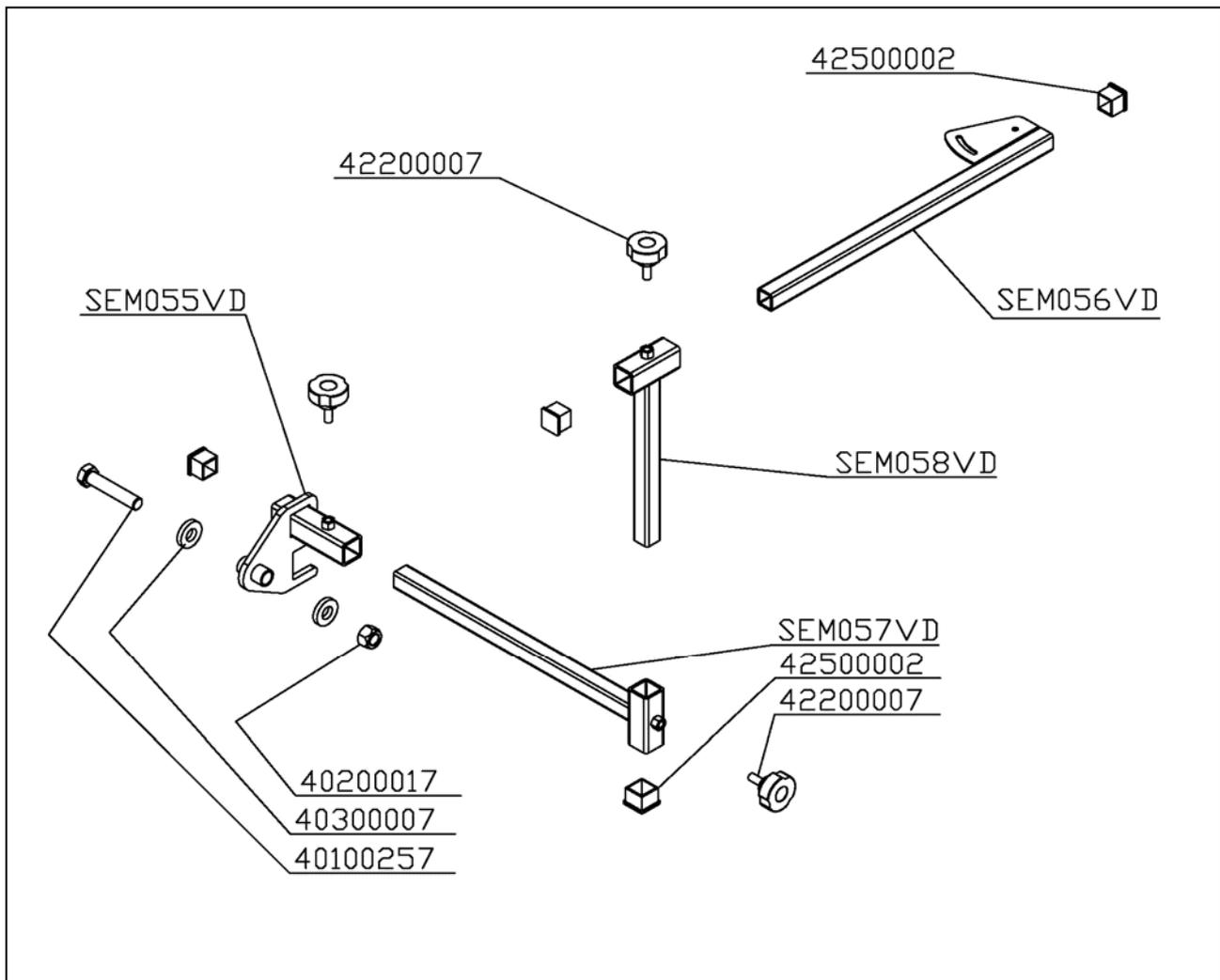
SEEDER GRASS - MECHANISM



SEEDER GRASS - SHEET



SEEDER GRASS - ATTACHMENT



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