



Modification instructions

MDP
MDD
MDG



Version: 10/2020, V1.1

Item no.: 00601-3-097

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CAUTION: When converting the multi-metering unit, switch off **AND** unplug the control module!

1 Contents of the accessories kit

1.1 The accessories kit for 2 outlets, item no.: 11000-2-002 (conversion of MDP/MDD to MDG), contains:

Pos.	Item no.:	Designation:	Quantity:
1	BN14476-M4	Flange nut	2 pcs.
2	BN10812-M4x8	Hexagon bolt	2 pcs.
3	11000-2-020	Blower fan cover plate, mounted	1 pc.
4	11000-2-030	Air channel, mounted 2A	1 pc.
5	11000-2-031	Transition piece, mounted 2A	1 pc.
6	04000-2-104	Baffle plate 1	2 pcs.
7	00600-3-331	Hinge bolt clamp 32-35 20	2 pcs.
8	04000-3-701	Hexagonal shaft 120 mm	1 pc.
9	BN20294-378x7	Cable tie	8 pcs.
10	00600-3-627	Hose, 1 inch	25 m
11	00600-3-765	Sticker G 50x50	1 pc.

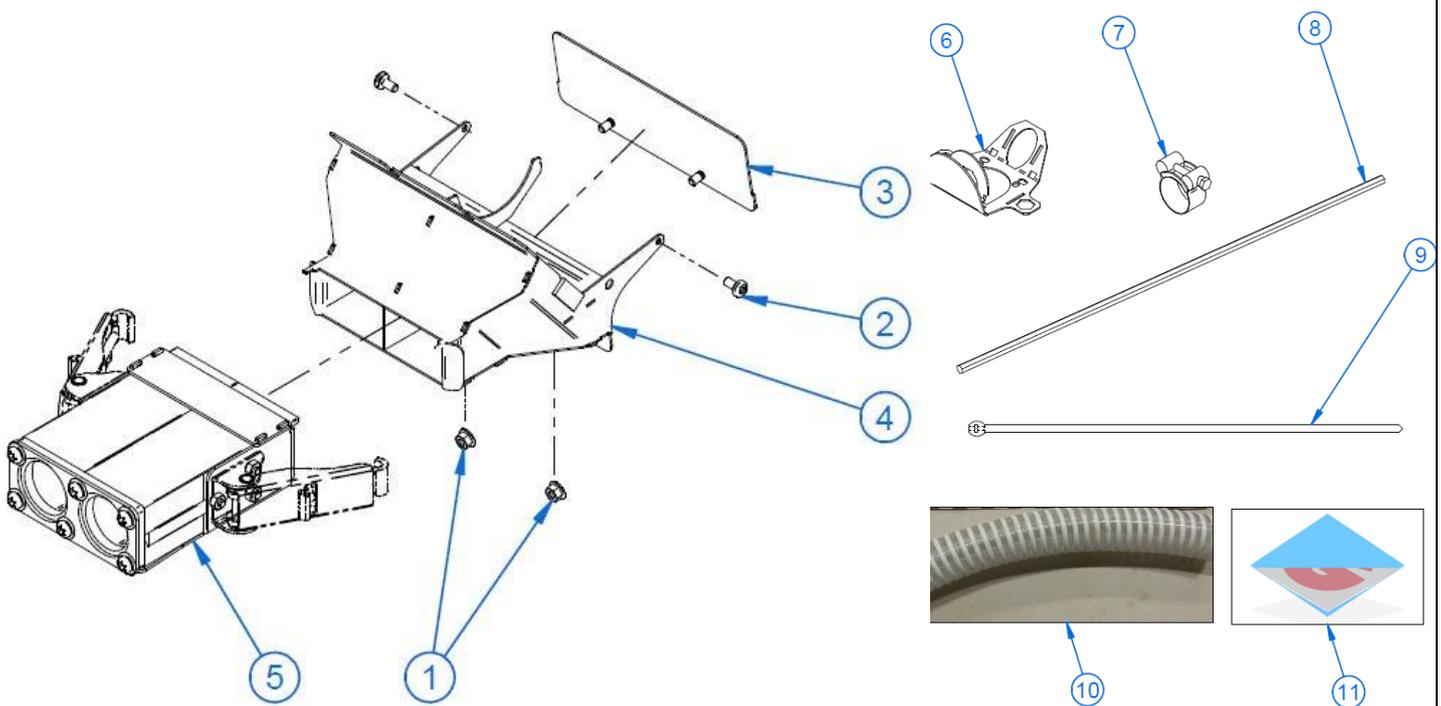


Fig.: 1

1.2 The accessories kit for disc spreader, item no.: 11000-2-123 (conversion of MDP/MDG to MDD), contains:

Pos.	Item no.:	Designation:	Quantity:
1	AAN13-M6x16	Hexagon bolt with flange	3 pcs.
2	AAN09-M6	Flange nut	5 pcs.
3	BN5951-M4x12	Hexagon bolt	6 pcs.
4	AAN17-M4	Flange nut	6 pcs.
5	AAN11-M6x16	Star knob screw	1 pc.
6	BN1075-M6	Washer	4 pcs.
7	00600-3-634	Sticker Irstea 60x60	1 pc.
8	11000-2-018	Plate frame, mounted 2	1 pc.
9	11000-2-016	Point of impact adjustment, mounted	1 pc.
10	04011-2-701	Quick-release fastener 1	2 pcs.
11	11000-2-087	Funnel, mounted	1 pc.
12	11000-2-041	Adapter plate for disc spreader, mounted	1 pc.
13	00602-3-144	Sticker D 34x40	1 pc.
14	11000-2-047	Safety Kit MDD	1 pc.

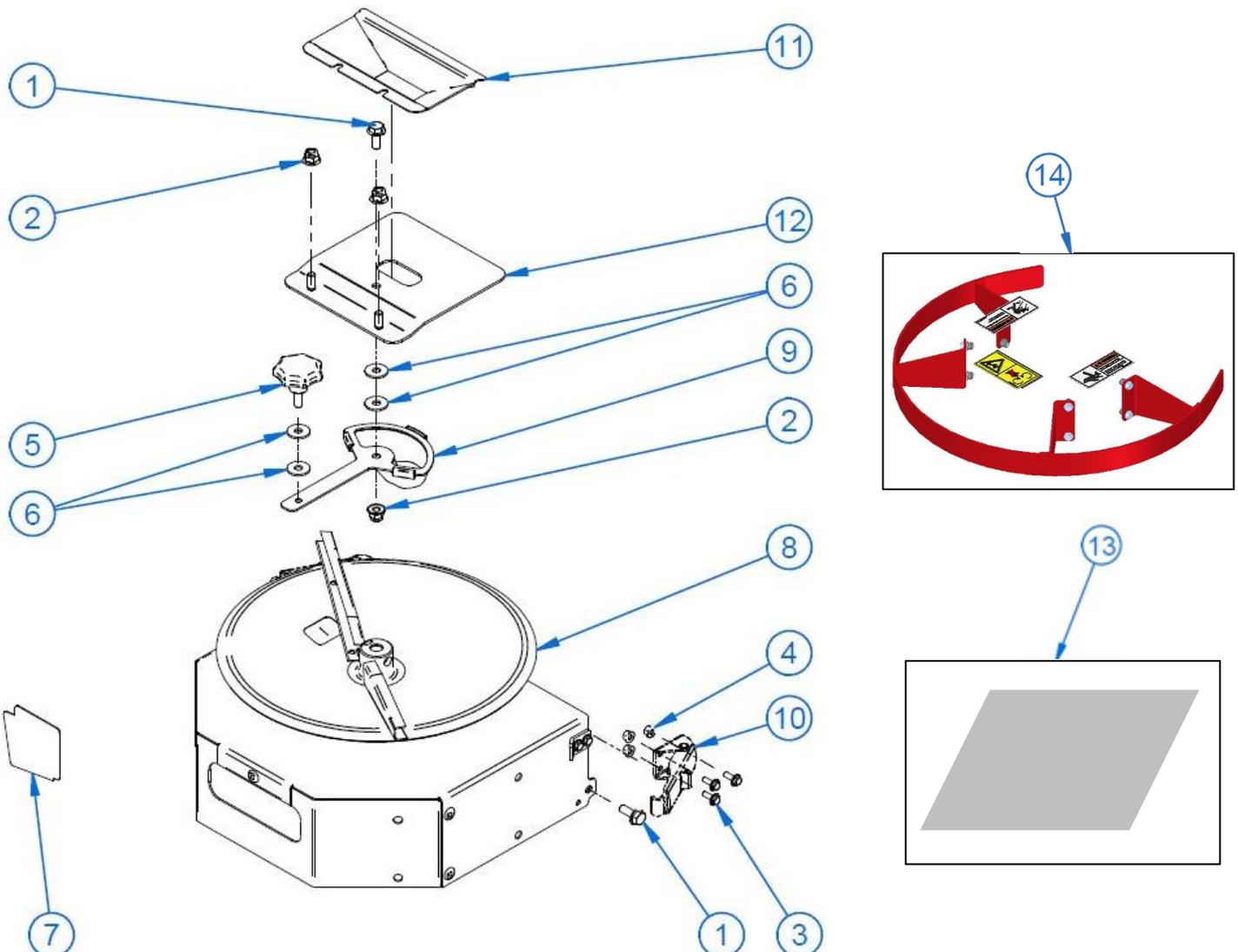


Fig.: 2

1.3 The accessories kit for the electrical blower fan, Item no.: 11000-2-007 (conversion of MDG/MDD to MDP), contains:

Pos.	Item no.:	Designation:	Quantity:
1	00410-2-111	Blower fan connection cable MX 2	1 pc.
2	11000-5-350	Spacing disc	9 pcs.
3	11000-5-352	Blower fan guard 1	1 pc.
4	11000-3-309	Blower fan guard	1 pc.
5	BN41200-M6x16	Hexagon bolt with flange	8 pcs.
6	BN6783-M6	Flange nut	8 pcs.
7	BN20040-50x12	Delta PT bolt	6 pcs.
8	BN833-5,5	Quick-lock ring	3 pcs.
9	11000-2-027	Transition to the blower fan, 75 mm mounted	1 pcs.
10	00600-2-099	Blower fan 75 mm	1 pc.
11	11000-4-007	Blower fan bracket, mounted	1 pc.
12	00600-3-764	Sticker P 50x50	1 pc.
13	04011-3-704	Seal profile 3	1.6 m
14	BN1368-60-80	Hose clamp	1 pc.

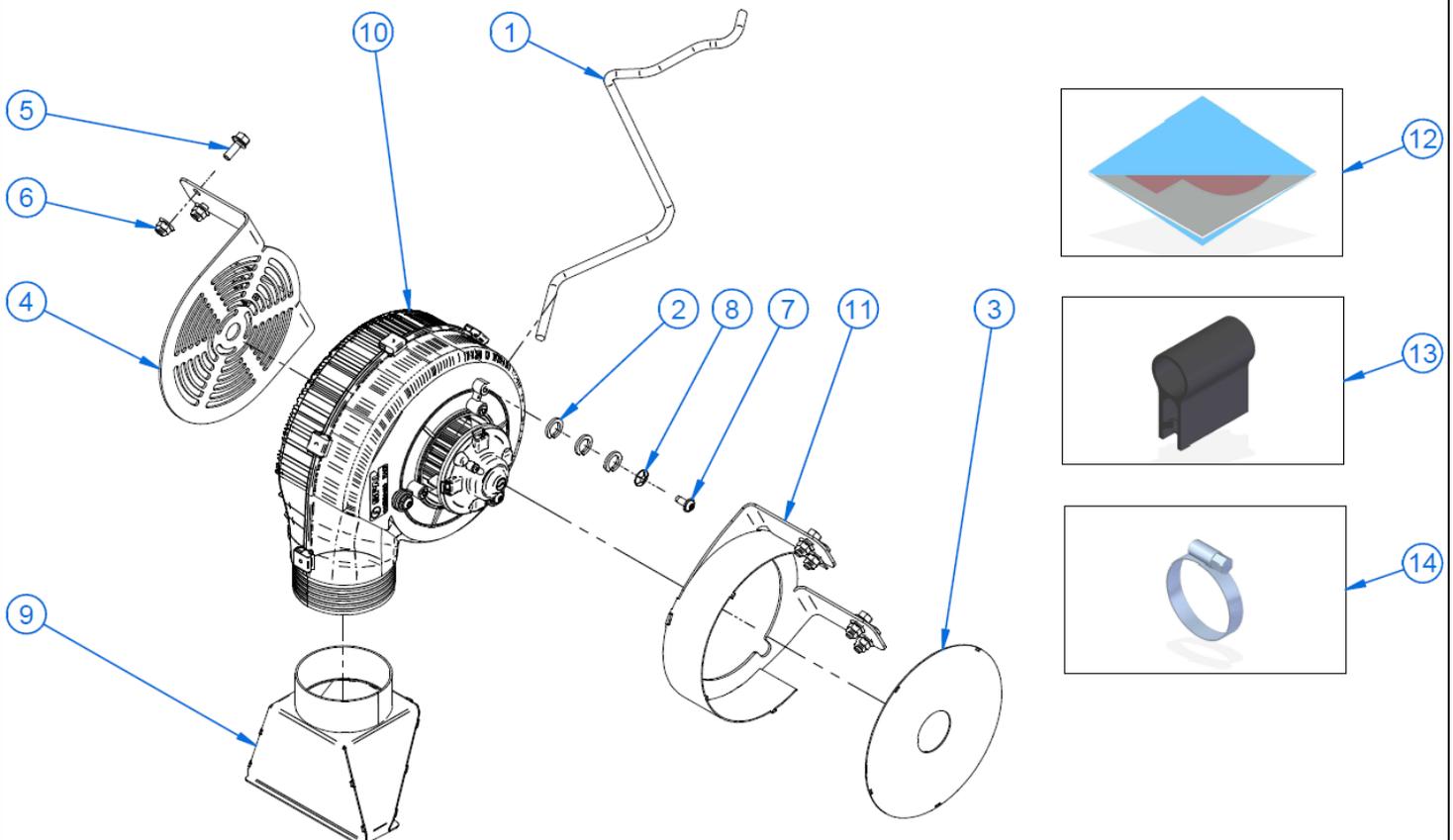


Fig.: 3

1.4 The accessories kit for 6 outlets, item no.: 11000-2-006 (conversion of MDG/MDD to MDP), contains:

Pos.	Item no.:	Designation:	Quantity:
1	BN14476-M4	Flange nut	2 pcs.
2	BN10812-M4x8	Hexagon bolt	2 pcs.
3	11000-2-025	Air channel, mounted 6A	1 pc.
4	11000-2-026	Transition piece, mounted 6A	1 pc.
5	11000-2-020	Blower fan cover plate, mounted	1 pc.
6	04000-2-104	Baffle plate 1	6 pcs.
7	00600-3-331	Hinge bolt clamp 32-35 20	6 pcs.
8	04000-3-701	Hexagonal shaft 120 mm	3 pcs.
9	BN20294-378x7	Cable tie	8 pcs.
10	00600-3-627	Hose, 1 inch	25 m
11	00600-3-765	Sticker G 50x50	1 pc.

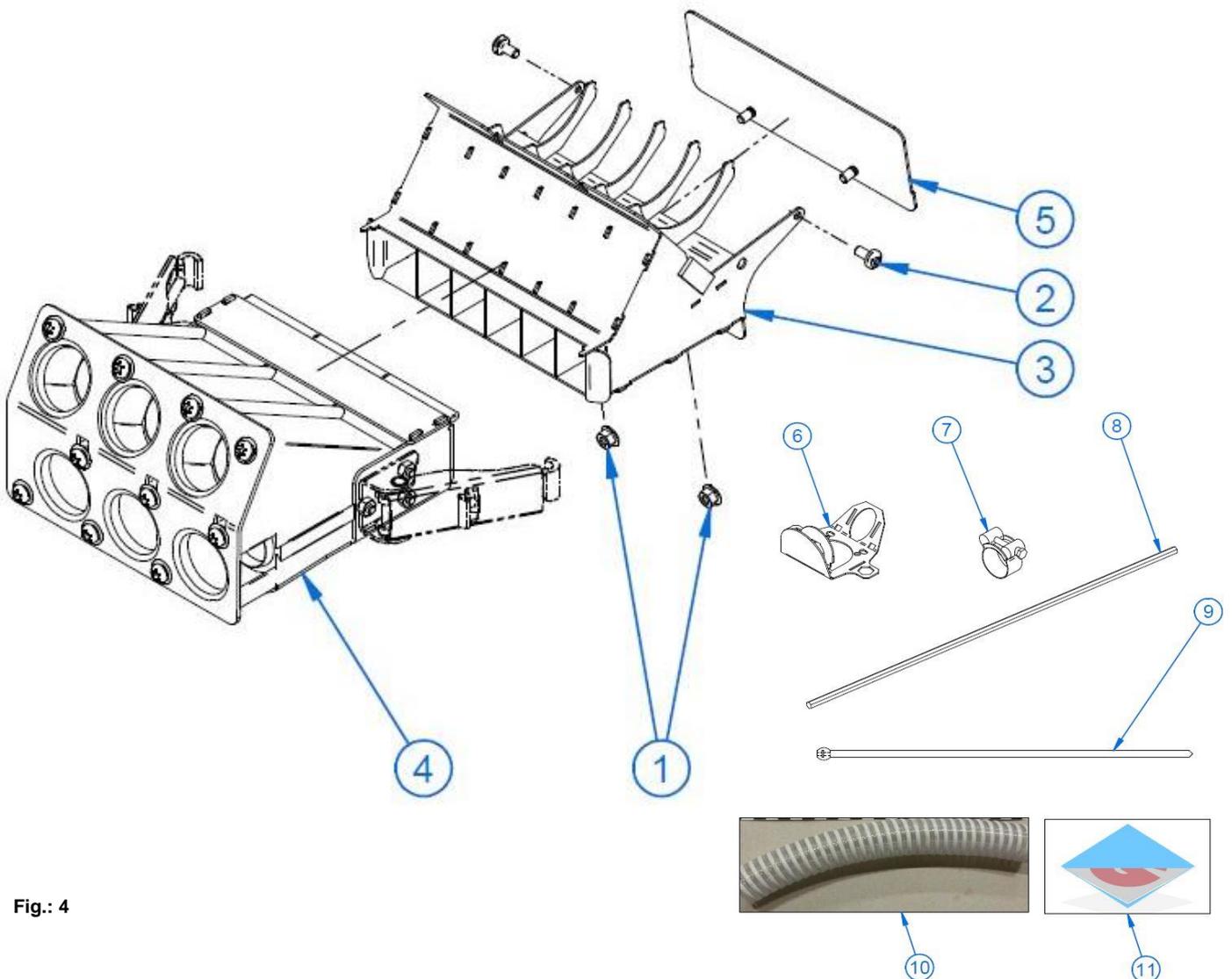


Fig.: 4

2 The conversion of an MDP to an MDG/MDD must be performed as follows:

- Remove the cover hood
 - Empty the hopper completely.
 - Remove the cover hood on the side for the drive rollers:
Insert a 4 mm Allen key through the intended opening **1** (Fig.: 5) and press it upwards **2** (Fig.: 6). As a result, the locking mechanism **3** (Fig.: 6) is pulled inwards and the cover hood **4** (Fig.: 7) can be pulled off towards the top.

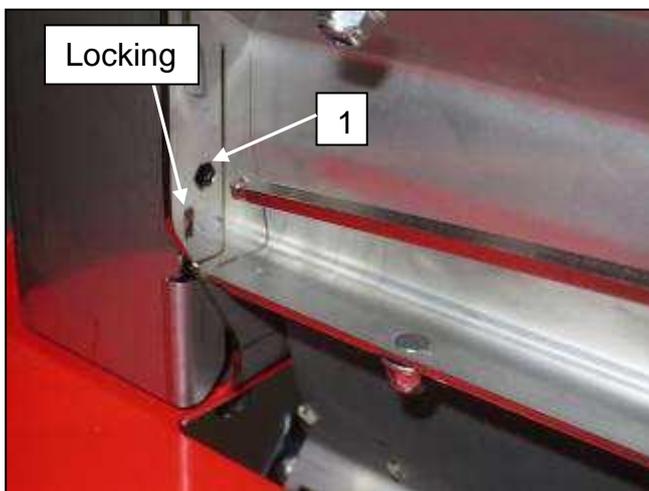


Fig.: 5

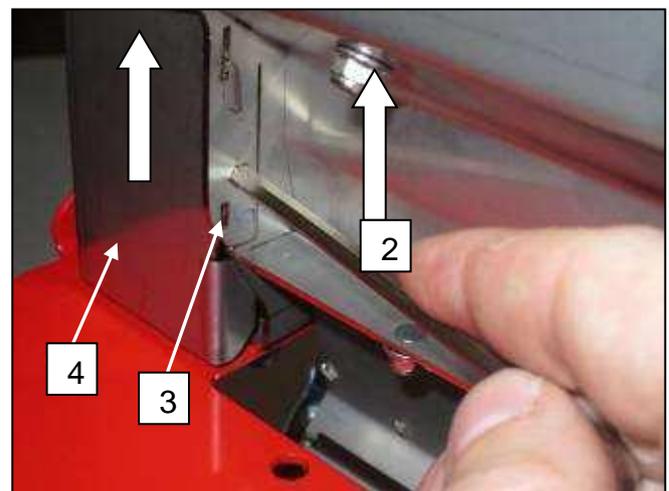


Fig.: 6



Fig.: 7

- Dismounting the seeding shaft

To dismount the seeding shaft, proceed as follows:



NOTE: When removing the seeding shaft, ensure that the hopper is completely empty!

- Pull the black rubber belts off of the drive rollers (Fig.: 8, Fig.: 9).
- Screw off the locking nuts of the cover plate for the seeding shaft on the side (Fig.: 10).
- Now remove the cover plate on the side and pull out the seeding shaft in the direction shown by the arrow (Fig.: 11).



TIP: Use the bearing pin with the feather key as an aid to pull the seeding shaft out of the metering unit.



Fig.: 8



Fig.: 9

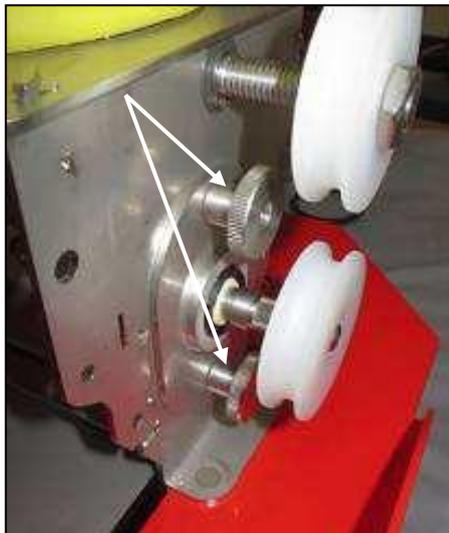


Fig.: 10



Fig.: 11

- To remove the seeding shaft motor cover, loosen the two bolts **1** marked in Fig.: 12 and pull off the cover towards the top **2**.

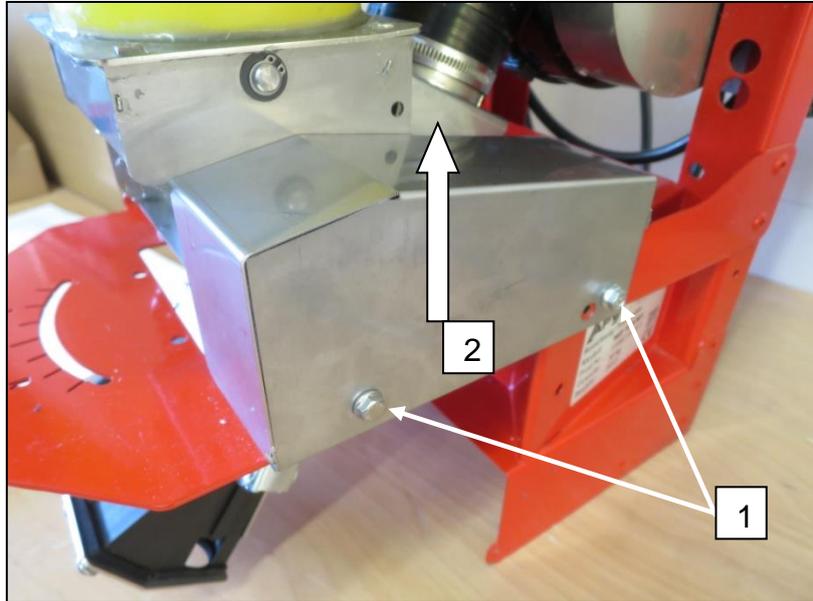


Fig.: 12

- To remove the transition pieces **1** (Fig.: 13), loosen the quick-release fasteners **2** on both sides and remove the transition pieces.

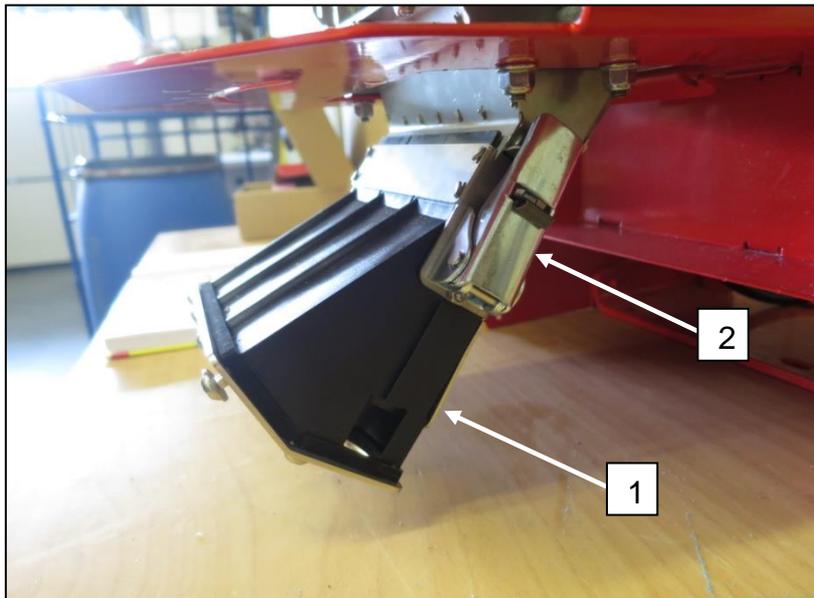


Fig.: 13

- To remove the air channel, loosen the flange nuts marked in Fig.: 14 and Fig.: 15 (they are located on the front and rear side of the air channel). Now loosen the bolts marked in Fig.: 16 on both sides. Remove the air channel towards the bottom.

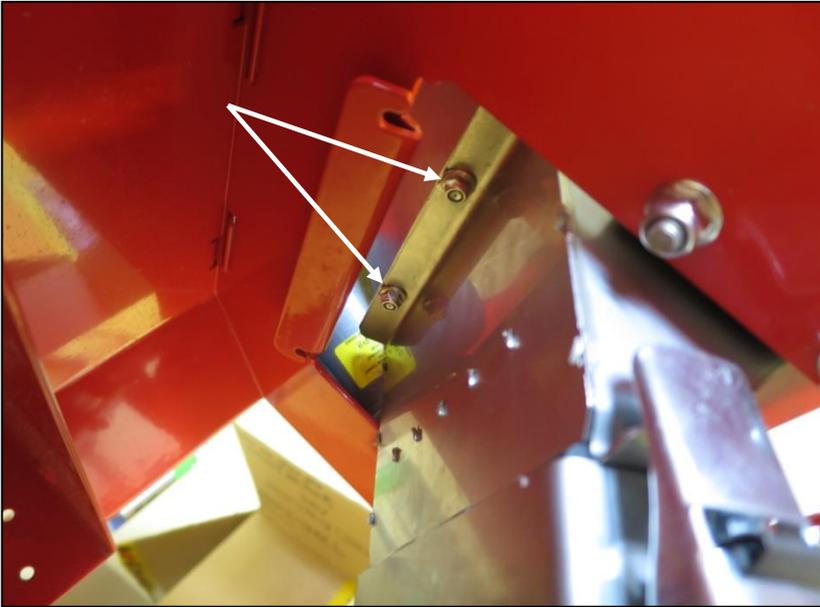


Fig.: 14

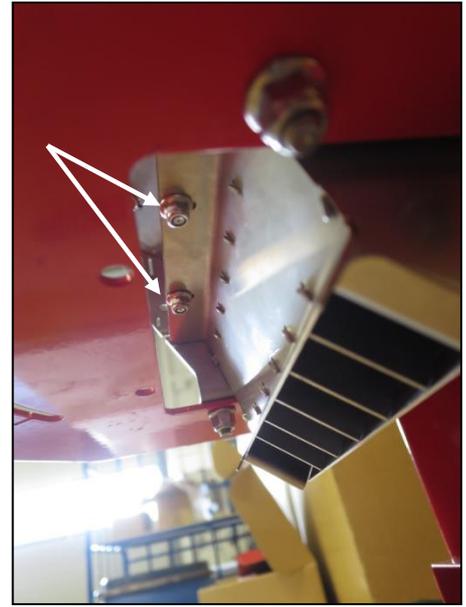


Fig.: 15

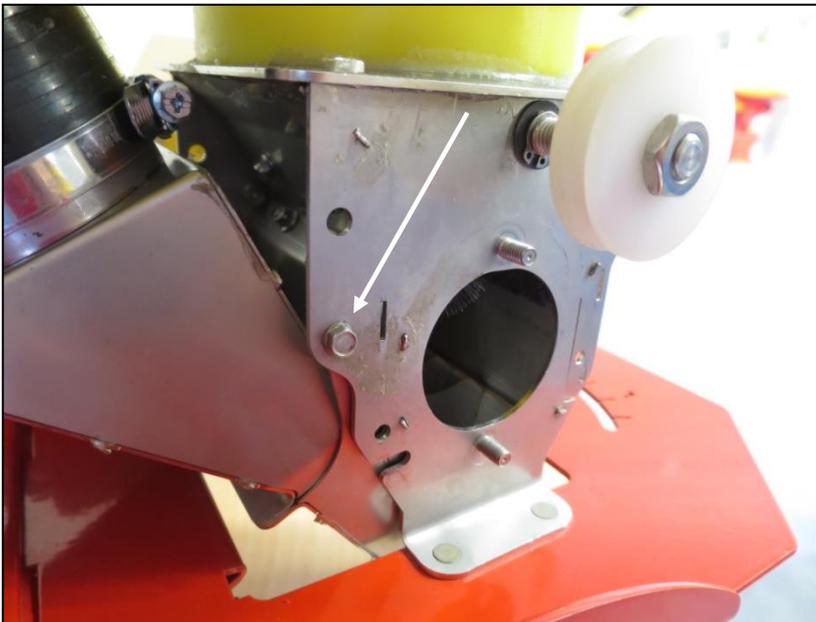


Fig.: 16

- Loosen the hose clamp marked in Fig.: 17 to remove the transition piece from the metering unit to the blower fan (Fig.: 18). Then remove the hose clamp from the blower fan.

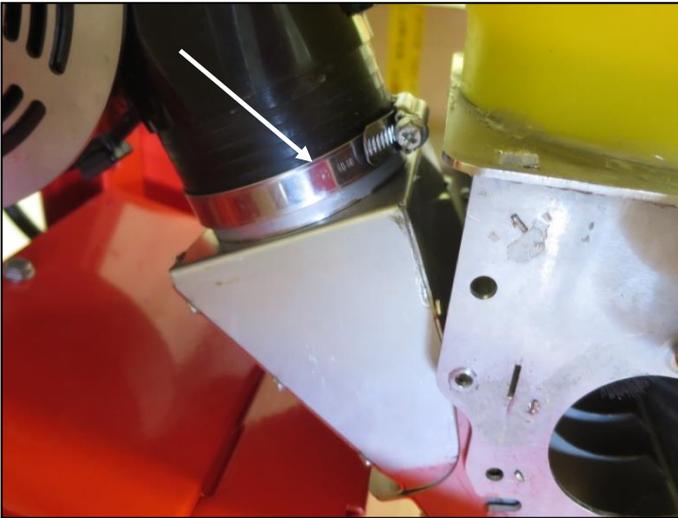


Fig.: 17

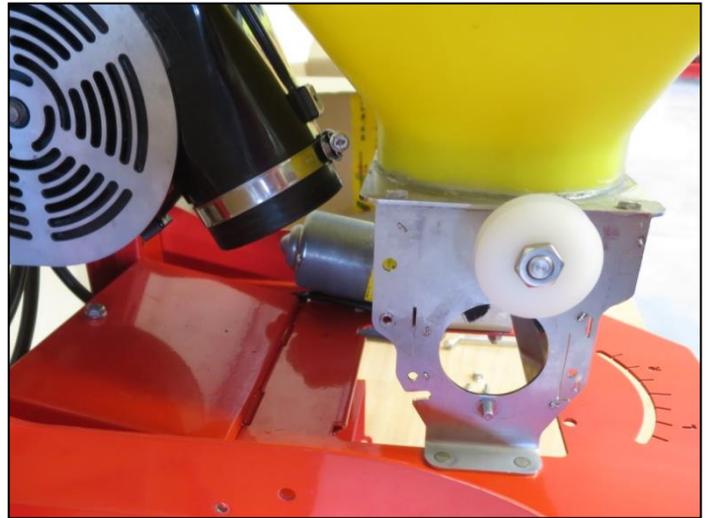


Fig.: 18

- Assemble the Safety Kit MDD with the 8 hexagon screws and flange nuts, as shown in the two figures below.

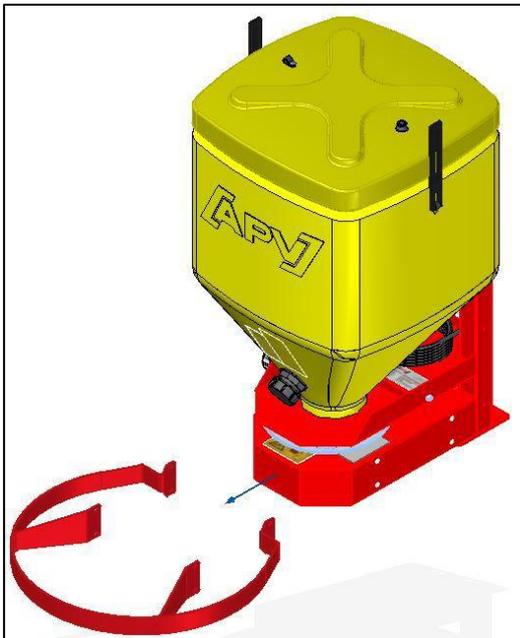


Fig.: 19

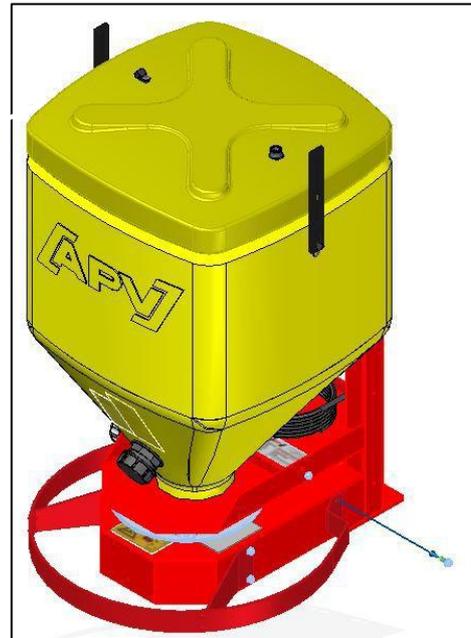


Fig.: 20

2.1 The conversion of an MDP to an MDG must be performed as follows:

- Push the unit with the air channel and the transition pieces from below into the metering unit, as shown in Fig.: 21.

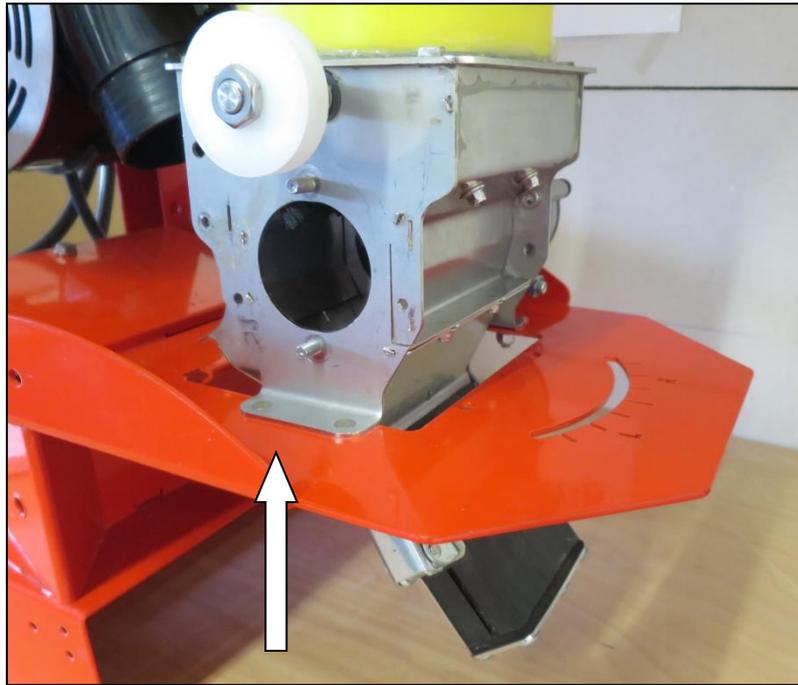


Fig.: 21

- Now lay the blower fan cover plate on the opening on the rear side of the metering unit, as shown in Fig.: 22 and Fig.: 23.

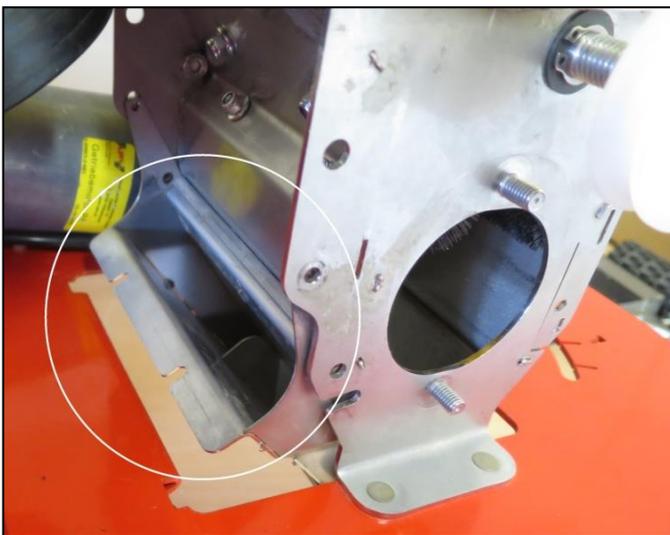


Fig.: 22

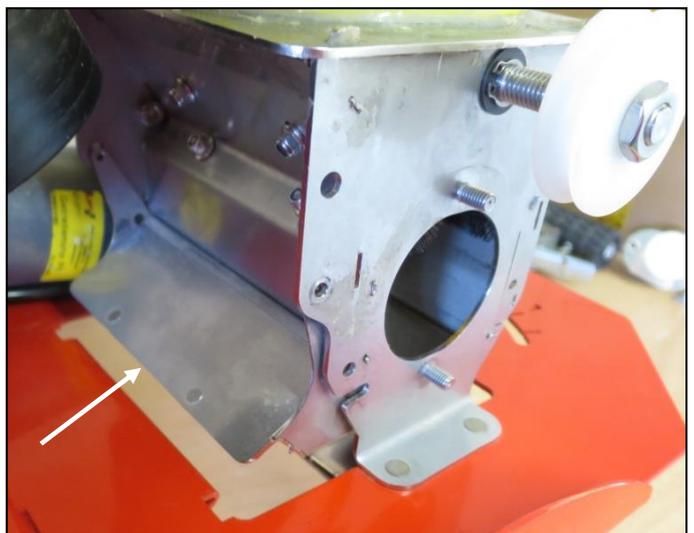


Fig.: 23

- Fasten the blower fan cover plate on the bottom side with the enclosed flange nuts (Fig.: 24). With the previously loosened flange nuts, fasten the air channel on the front side (Fig.: 25) and on the sides with one hexagon bolt respectively (Fig.: 26).

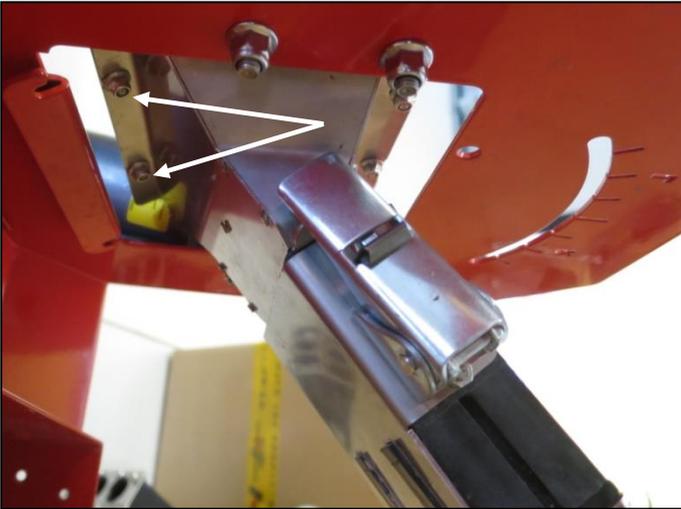


Fig.: 24



Fig.: 25

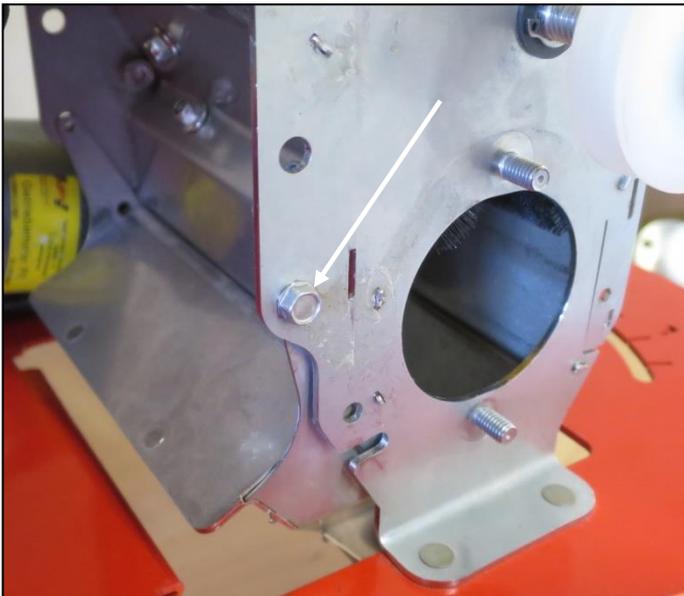


Fig.: 26

- To install the seeding shaft motor cover, position it from top to bottom **1** over the seeding shaft motor and fasten it with the existing bolts **2**.

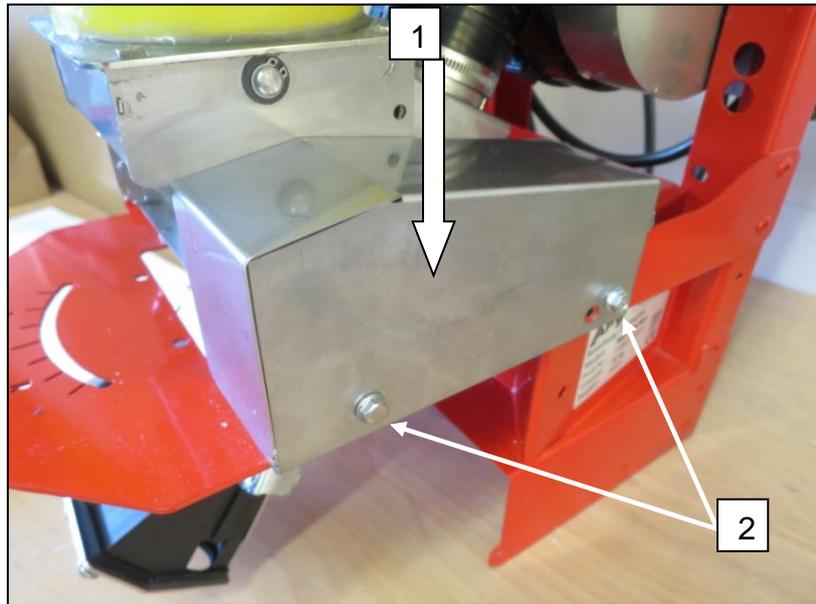


Fig.: 27

- Installing the seeding shaft
 - Insert the seeding shaft into the metering unit in the direction shown by the arrow (Fig.: 28). To do so, you must turn the seeding shaft until the feather key of the motor slips into the seeding shaft.
 - Position the cover plate with the mounted bearing flange on the side of the seeding shaft and fasten it with the locking nuts (Fig.: 29).
 - Install the rubber straps on the drive rollers (Fig.: 30, Fig.: 31).



Fig.: 28

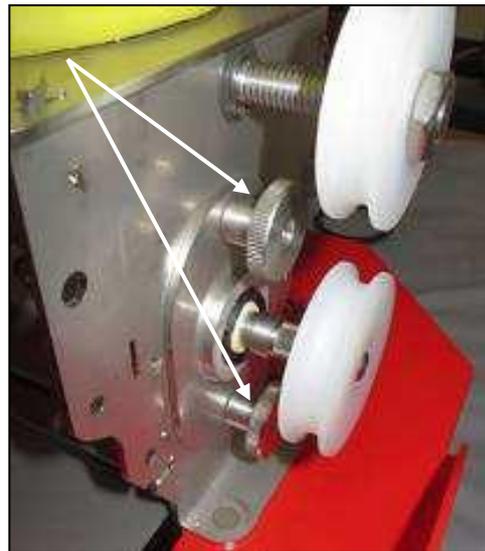


Fig.: 29



Fig.: 30



Fig.: 31

- Installing the cover hood for the drive rollers (Fig.: 32)
 - Install the cover hood for the drive roller from top to bottom onto the metering unit, so that the hooks on each side can be inserted in the intended slits.
 - Fasten the cover hood by pushing it down and thus locking it.

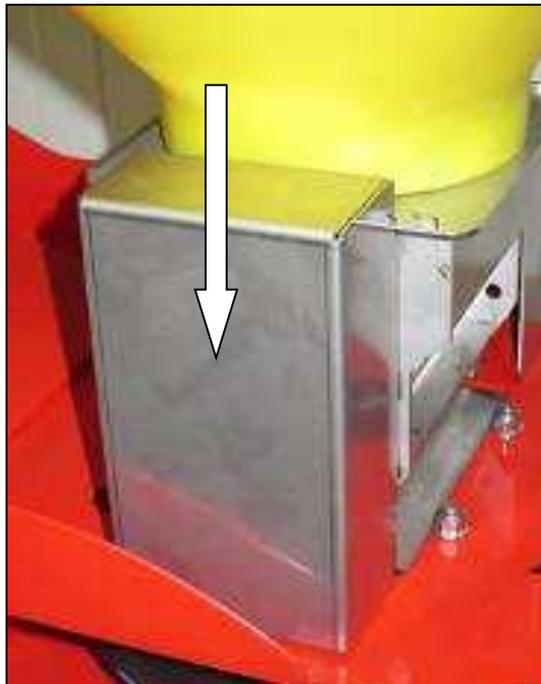


Fig.: 32

2.2 The conversion of an MDP to an MDD must be performed as follows:



PLEASE NOTE: The steps that need to be performed beforehand can be found on pages 7-11.

- Install the impact point adjustment and the adapter plate of the disc spreader with the enclosed flange nuts (BN14476-M6), a hexagon bolt with flange (AAN13-M6x16) and the washers (BN1075-M6), as shown in Fig.: 33 and Fig.: 35.
Then install the assembled unit on the multi-metering unit with the flange nuts (BN14476-M6) marked in Fig.: 34 and the star knob screw (Fig.: 34, Fig.: 36).

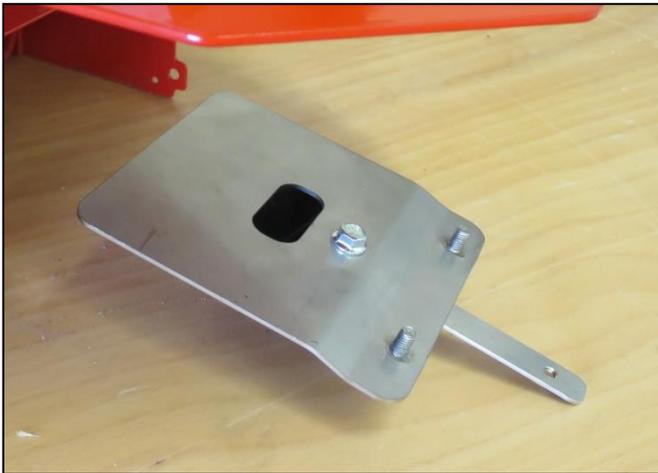


Fig.: 33

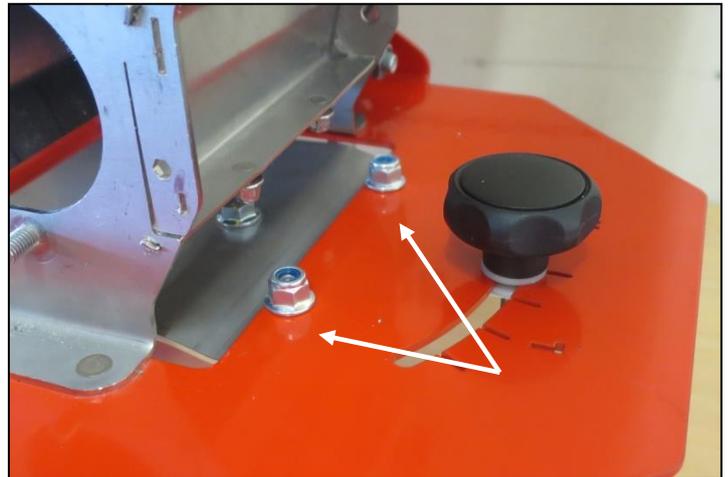


Fig.: 34

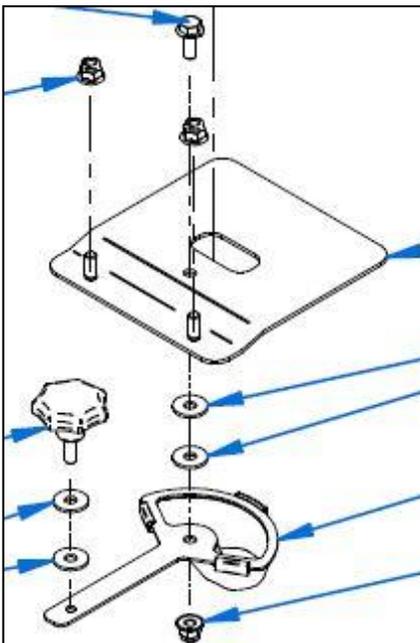


Fig.: 35



Fig.: 36

- The funnel is pushed into the frame from the rear in the direction shown by the arrow (Fig.: 35, Fig.: 36), with the notches pointing to the front. Fasten the funnel with 2 flange nuts (BN14476-M4) as shown in Fig.: 39.

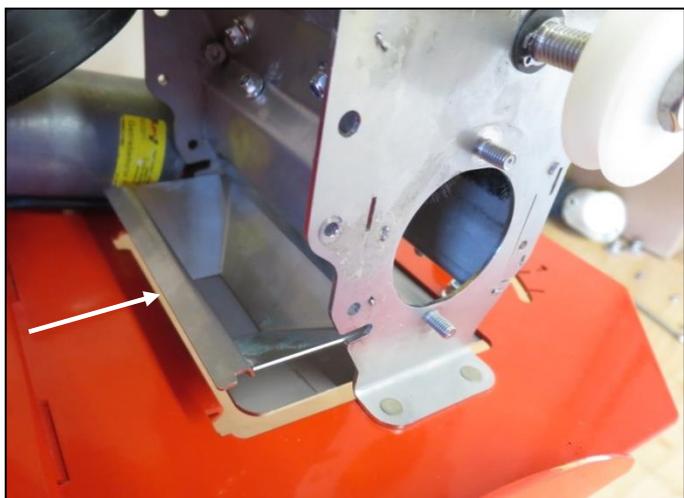


Fig.: 38



Fig.: 37

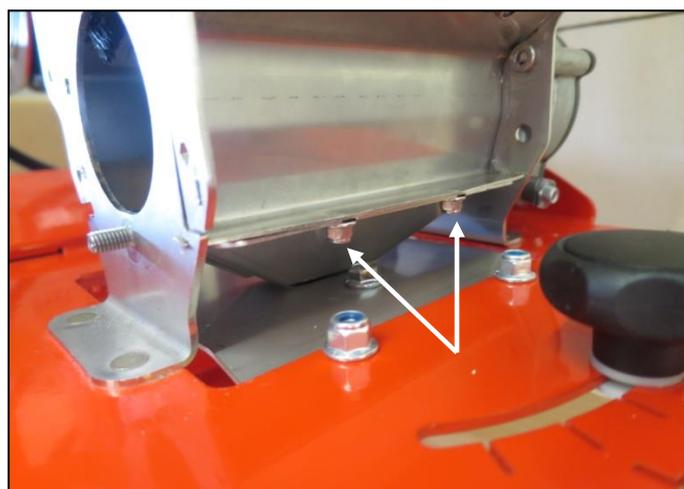


Fig.: 39

- In the next step, the quick-release fasteners are installed to be able to install the plate frame later on.
The 3 holes intended for this purpose are already on the multi-metering unit and are marked in Fig.: 40. The two quick-release fasteners are installed from the outside with respectively 3 hexagon bolts (BN5951-M4x12) and 3 flange nuts (BN14476-M4) (Fig.: 41).



Fig.: 40



Fig.: 41

- The spreading plate motor already installed in the plate frame (Fig.: 42) is now electrically connected to the multi-metering unit.



Fig.: 42

- To connect the cable from the spreading plate motor to the multi-metering unit, position the plate frame as shown in Fig.: 43.

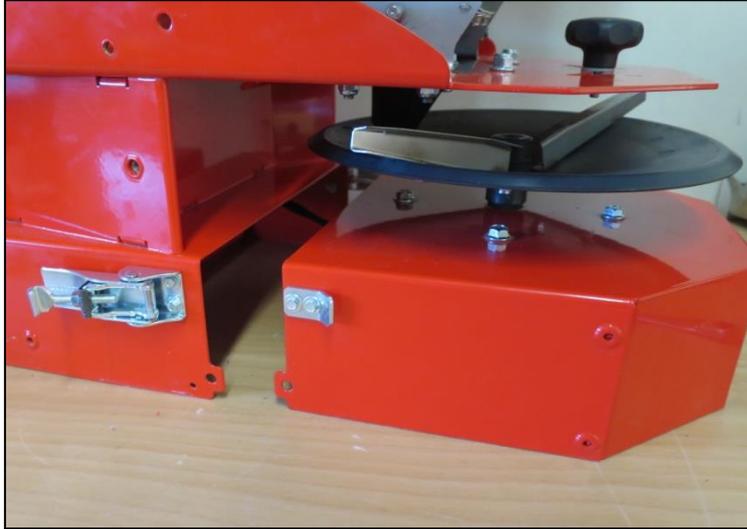


Fig.: 43

- Then loosen the bolt marked in Fig.: 44 and remove the cover to reach the connectors on the multi-metering unit.



Fig.: 44

- Now disconnect the cable for the blower fan from the terminal strip. It is connected on the left side of the terminal strip in Fig.: 45 (see also the connection diagram, page 23, Fig.: 46). The installed blower fan can be removed for operating the MDD as it is not used in this case.

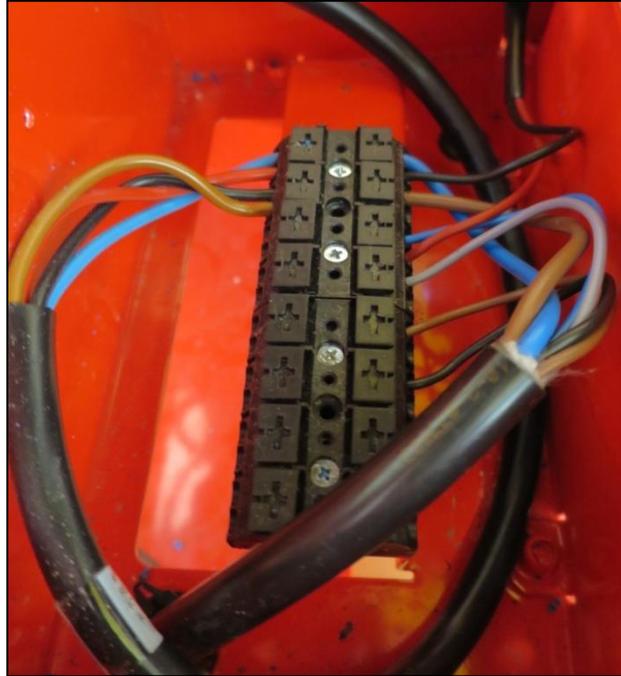


Fig.: 45

Pull the cable for the spreading plate motor through the grommet on the bottom side of the spreader (Fig.: 46).

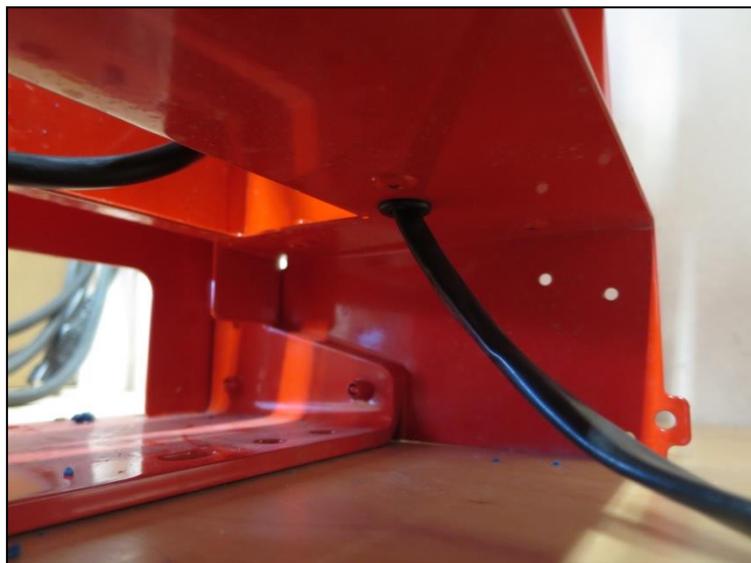


Fig.: 46

Connect the cable of the spreading plate motor (black, red), as shown on the connection diagram in Fig.: 48 (see page 23), on the left side of the terminal strip (Fig.: 47).

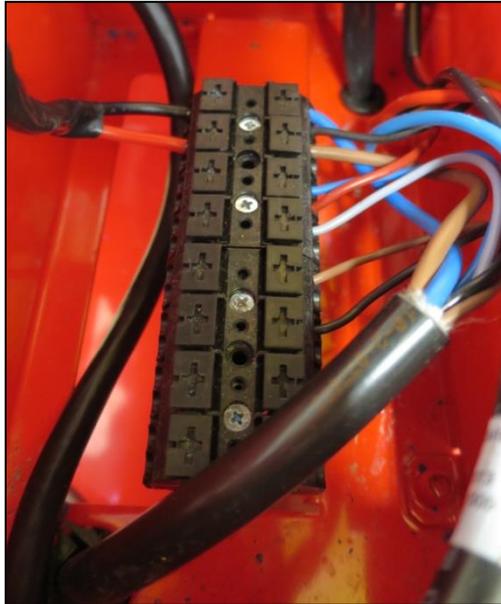


Fig.: 47

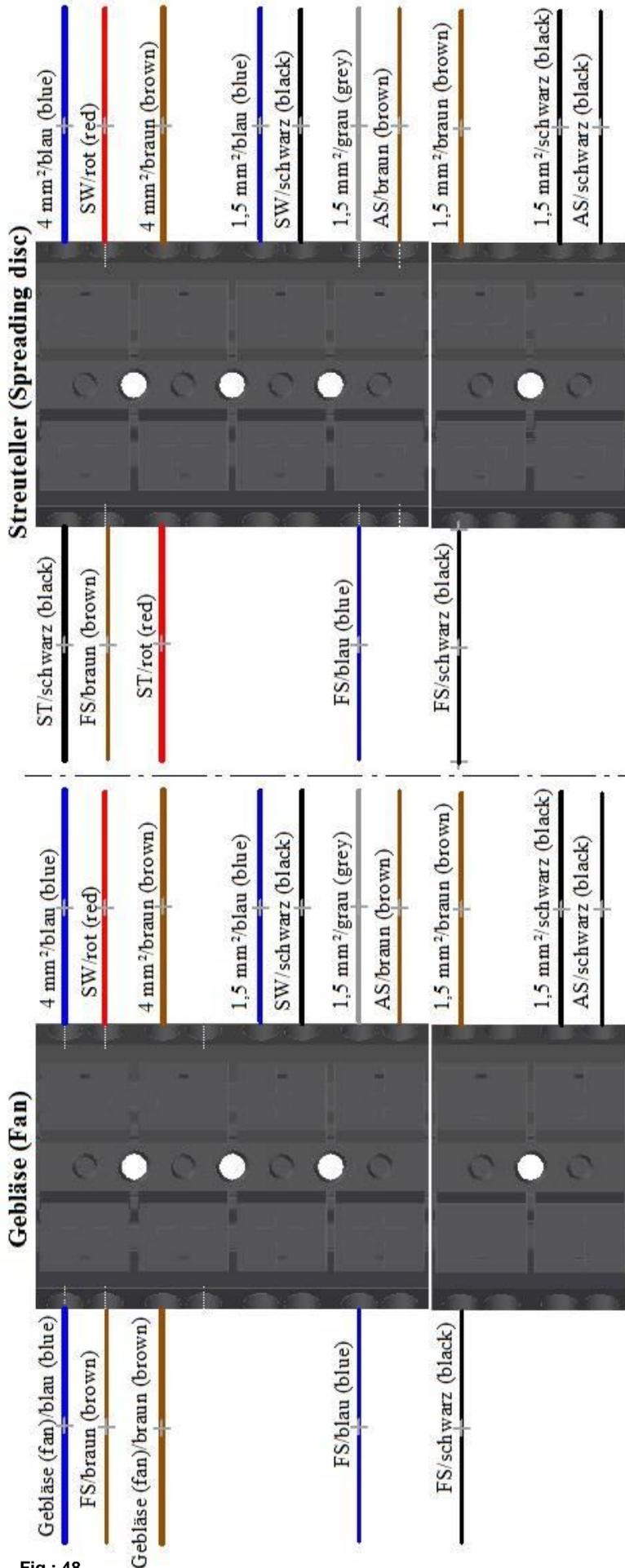


Fig.: 48

Stecker-PIN (plug-pin)	Geräte kabel (machine cable)	Gebläse (fan)	Streuteller (ST) (spreading disc)	Säwellenmotor (SW) (sowing shaft motor)	Füllstandsensor (FS) (fill level sensor)	Abdrehschalter (AS) (calibration button)
1	4 mm ² / blau (blue)	4 mm ² / blau (blue)	2,5 mm ² / schwarz (black)	1,5 mm ² / rot (red)	0,75 mm ² / braun (brown)	
2	4 mm ² / braun (brown)	4 mm ² / braun (brown)				
3	1,5 mm ² / blau (blue)		2,5 mm ² / rot (red)	1,5 mm ² / schwarz (black)		
4	1,5 mm ² / grau (grey)				0,75 mm ² / blau (blue)	0,75 mm ² / braun (brown)
5	1,5 mm ² / braun (brown)				0,75 mm ² / schwarz (black)	
6	1,5 mm ² / schwarz (black)					0,75 mm ² / schwarz (black)

After you have connected the spreading plate motor to the multi-metering unit, fasten the cover on the implement again above the terminal strip using the previously loosened bolt.

- Now position the plate frame relative to the spreader unit such that the respective holes overlap (marked in Fig.: 49). In doing so, the two tabs of the plate frame are located on the inner side of the spreader unit.



Fig.: 49

To fasten the plate frame (Fig.: 50), use the enclosed hexagon bolts (AAN13-M6x16) and fasten each of these with a flange nut (BN14476-M6).

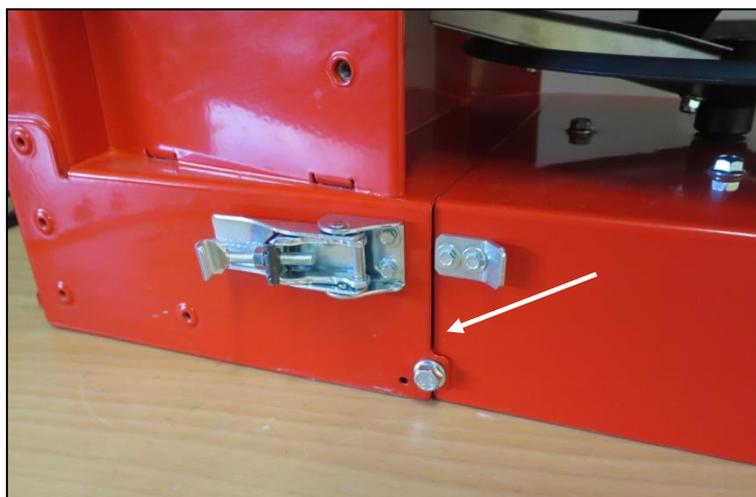


Fig.: 50

- Now you can still adjust the tension of the two quick-release fasteners (Fig.: 51). To do this, turn the hooks with the thread. To fasten the plate frame, hang the hooks of the quick-release fastener in the hooks of the plate frame on both sides. Then fix the adjustment by tightening the nut on the quick-release fastener.



Fig.: 51

- To install the seeding shaft motor cover, insert from top to bottom **1** over the seeding shaft motor and fix it with the existing bolts **2** (Fig.: 52).

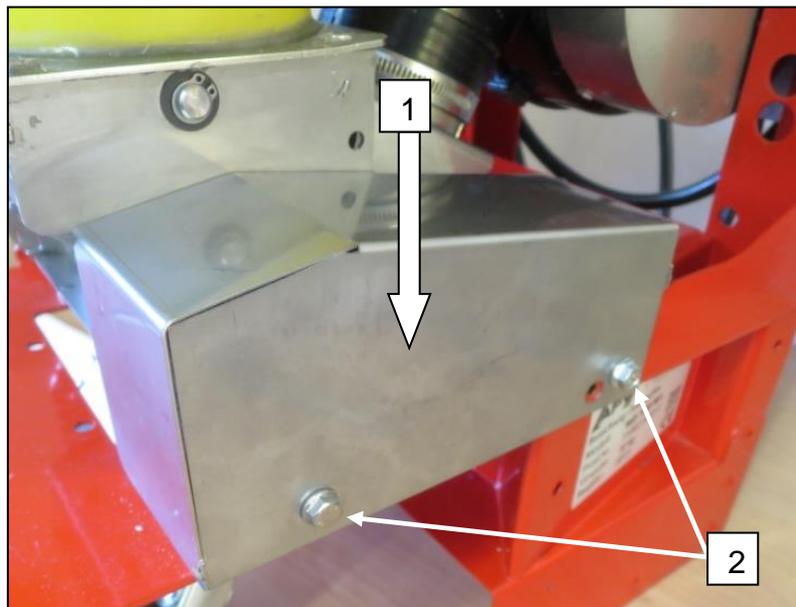


Fig.: 52

- Installing the seeding shaft
 - Insert the seeding shaft into the metering unit in the direction shown by the arrow (Fig.: 53). To do so, you must turn the seeding shaft until the feather key of the motor slips into the seeding shaft.
 - Position the cover plate with the mounted bearing flange on the side of the seeding shaft and fasten it with the locking nuts (Fig.: 54).
 - Install the rubber straps on the drive rollers (Fig.: 55, Fig.: 56).



Fig.: 53

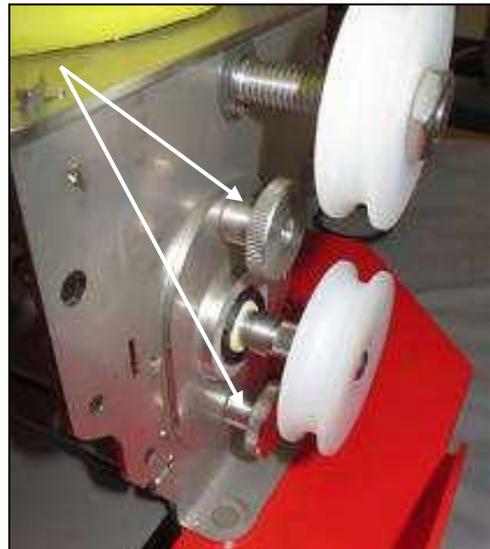


Fig.: 54



Fig.: 55



Fig.: 56

- Installing the cover hood for the drive rollers (Fig.: 57)
 - Install the cover hood for the drive roller from top to bottom onto the metering unit, so that the hooks on each side can be inserted in the intended slits.
 - Fasten the cover hood by pushing it down and thus locking it.

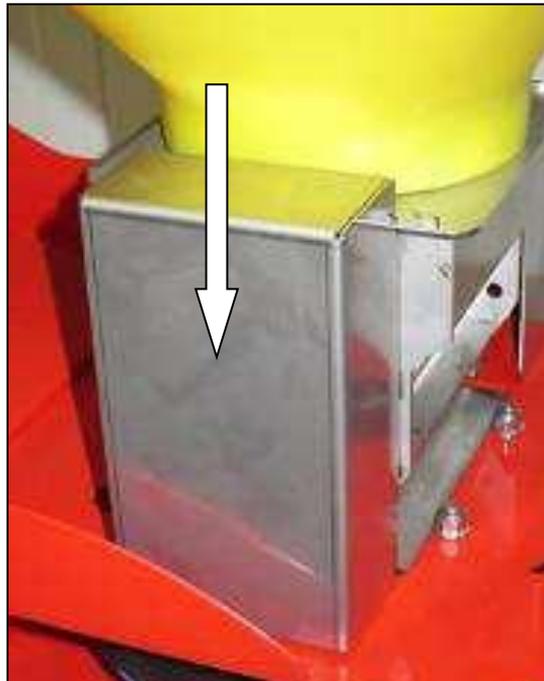


Fig.: 57

3 The conversion of an MDD to an MDP/MDG must be performed as follows:

- Remove the cover hood
 - Empty the hopper completely.
 - Remove the cover hood on the side for the drive rollers:
 - Insert a 4 mm Allen key through the intended opening 1 (Fig.: 58) and press it upwards 2 (Fig.: 59). As a result, the locking mechanism 3 (Fig.: 59) is pulled inwards and the cover hood 4 (Fig.: 60) can be pulled off towards the top.

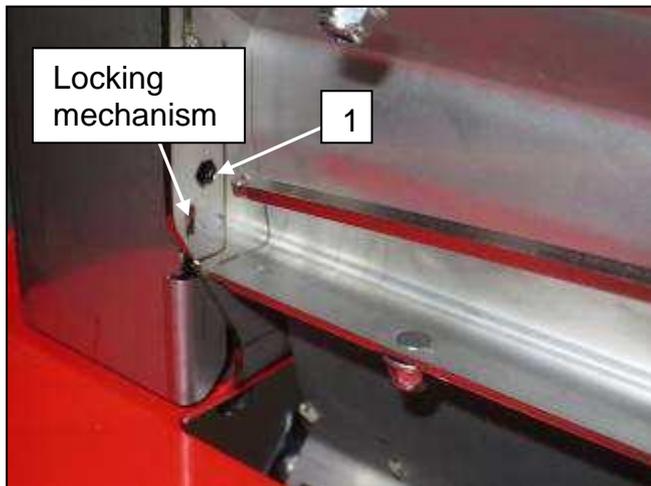


Fig.: 58

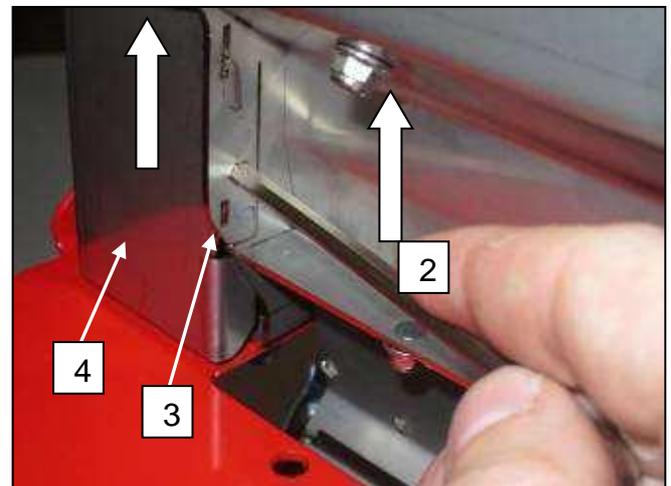


Fig.: 59

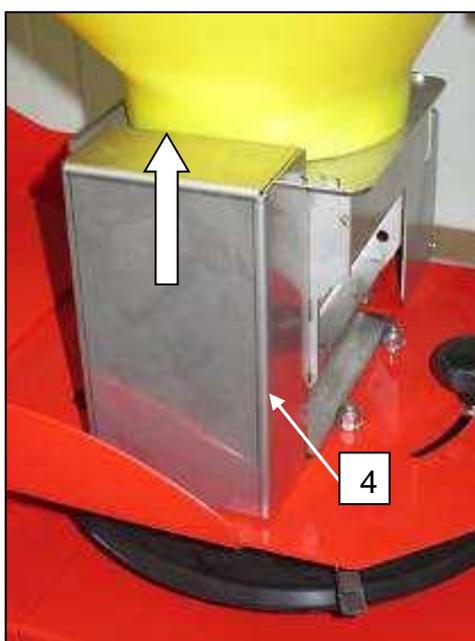


Fig.: 60

- Dismounting the seeding shaft

To dismount the seeding shaft, proceed as follows:



NOTE: When removing the seeding shaft, ensure that the hopper is completely empty!

- Pull the black rubber belts off of the drive rollers (Fig.: 61, Fig.: 62).
- Screw off the locking nuts of the cover plate for the seeding shaft on the side (Fig.: 63).
- Now remove the cover plate on the side and pull out the seeding shaft in the direction shown by the arrow (Fig.: 64).



TIP: Use the bearing pin with the feather key as an aid to pull the seeding shaft out of the metering unit.



Fig.: 61



Fig.: 62

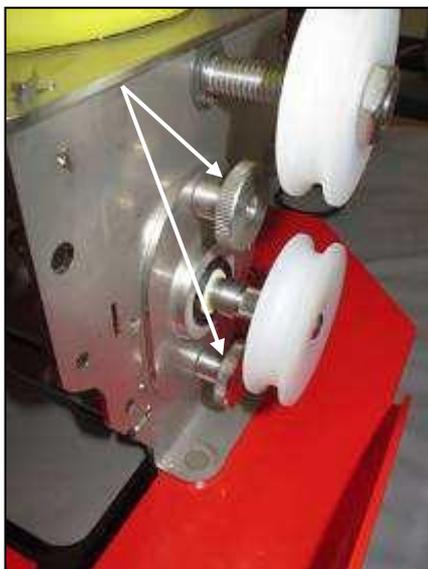


Fig.: 64



Fig.: 63

- To remove the seeding shaft motor cover, loosen the two bolts **1** marked in Fig.: 65 and pull off the cover towards the top **2**.

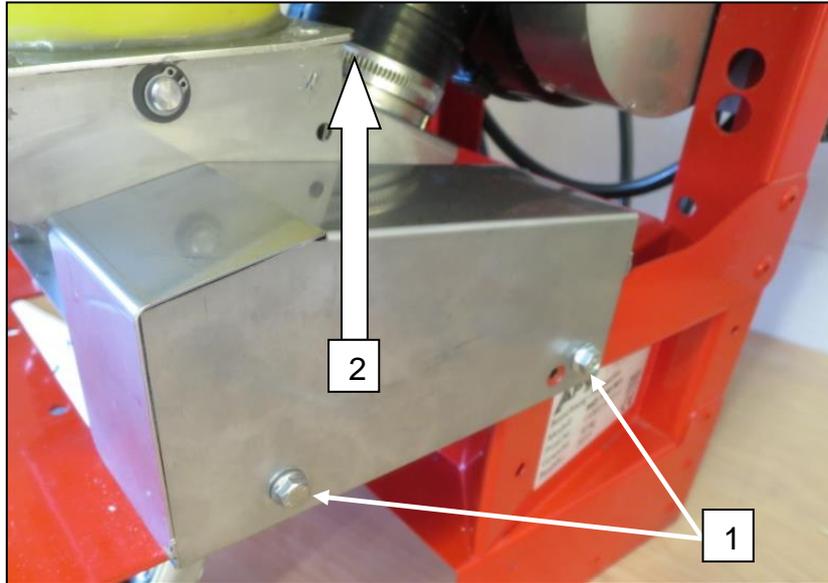


Fig.: 65

- Open the quick-release fastener in Fig.: 66 and loosen the marked flange head screw that is fixed on the inside with a flange nut (perform the procedure on both sides).



Fig.: 66

- Loosen the 3 hexagon bolts on both sides, which fix the quick-release fasteners, and remove them (Fig.: 67).



Fig.: 67

- For the electrical connection of the spreading plate motor, loosen the bolt marked in Fig.: 68 and remove the cover.

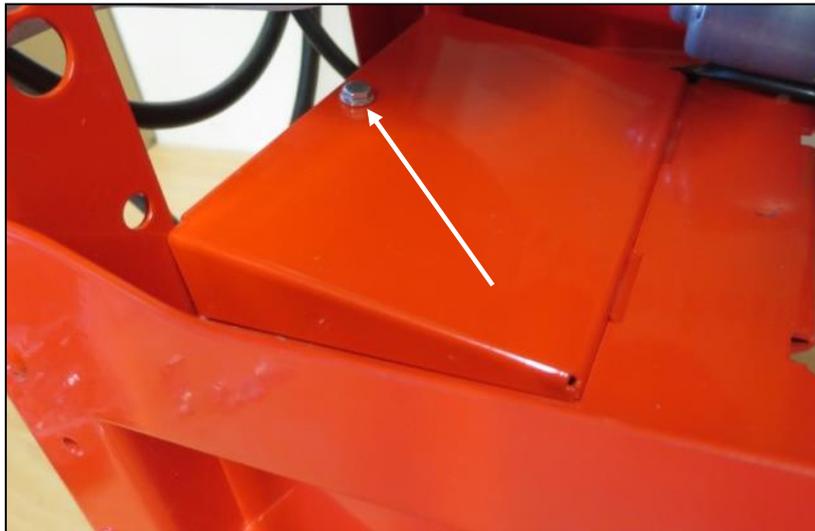


Fig.: 68

- Disconnect the cable (black, red) connected on the left side of the terminal strip (Fig.: 69), as shown on the connection diagram (see P. 23, Fig.: 48).

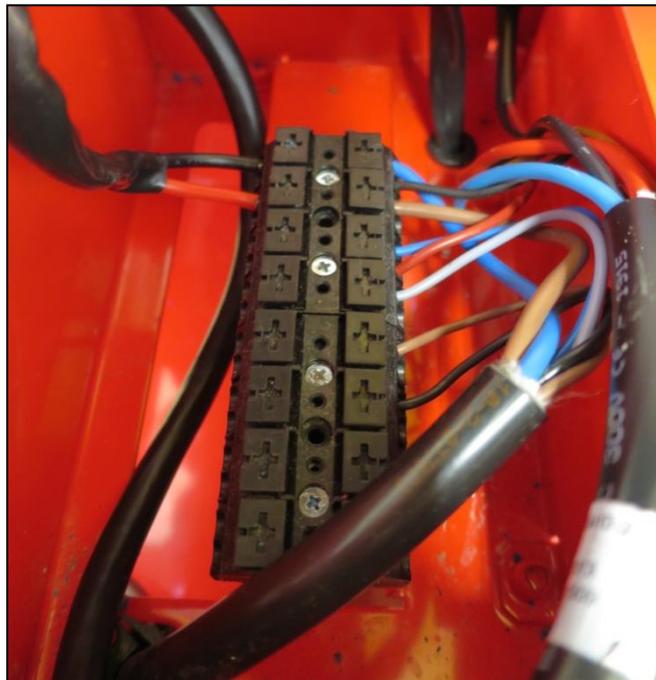


Fig.: 69

- Now pull out the cable for the spreading plate motor out of the grommet (Fig.: 70).

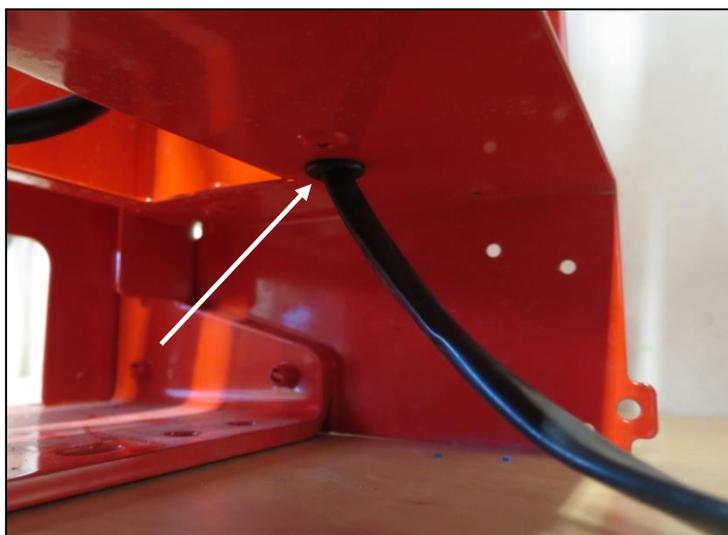


Fig.: 70

- Loosen the two nut marked in Fig.: 71 and push the funnel to the rear and out of the unit in the direction shown by the arrow (marked in Fig.: 72 and Fig.: 73).

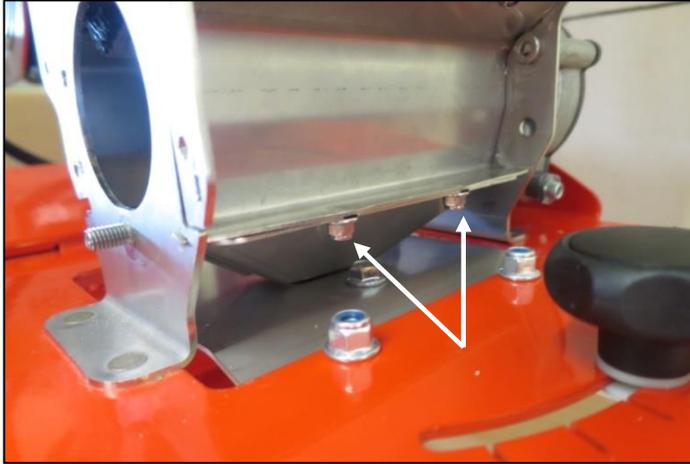


Fig.: 71

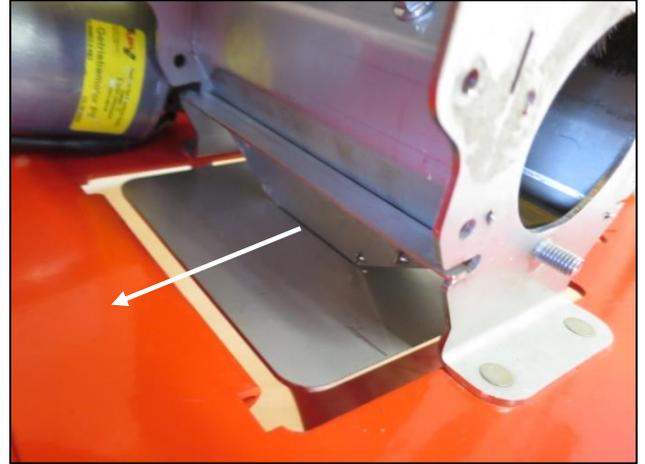


Fig.: 72

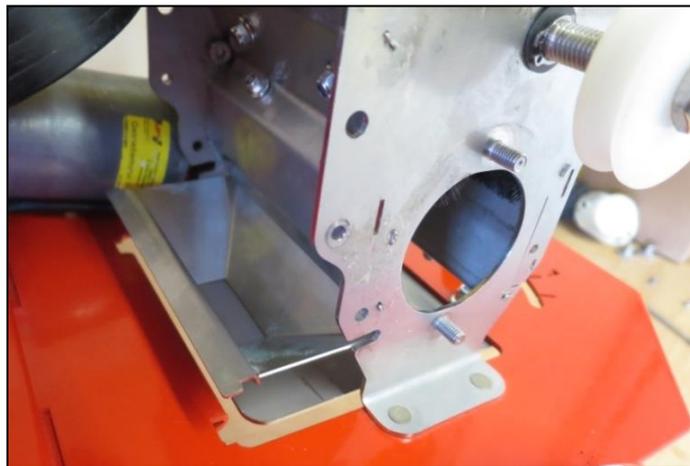


Fig.: 73

- To remove the impact point adjustment with the adapter plate, loosen the flange nuts marked in Fig.: 73 and the black star knob screw.

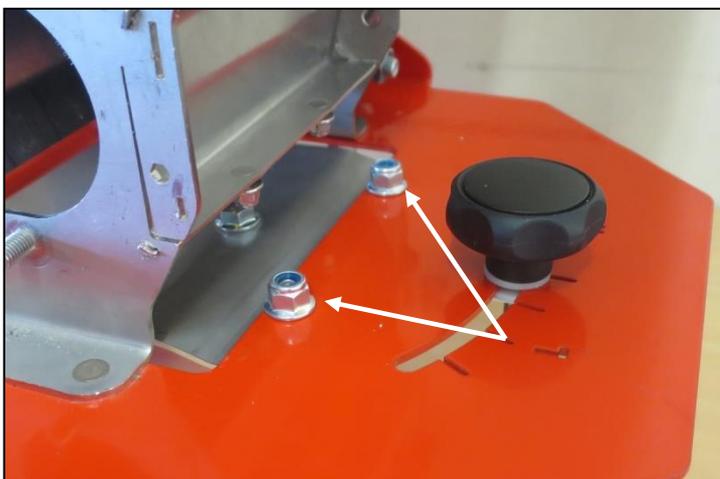


Fig.: 75



Fig.: 74

3.1 The conversion of an MDD to an MDP must be performed as follows:

- To install the blower fan on the frame of the multi-metering unit, use the hexagon bolts with flange provided with the accessories kit. Screw the blower fan onto the steel frame using the enclosed flange nuts (8 bolts as shown in Fig.: 76) and the existing holes.



Fig.: 76

- For the electrical connection of the blower fan to the multi-metering unit, insert the cable of the blower fan through the grommet marked in Fig.: 76.

- Then connect the cable on the left side of the terminal strip (Fig.: 75) according to the connection diagram (see page 23, Fig.: 48). Now close the cover again with the previously loosened hexagon bolt (Fig.: 76).

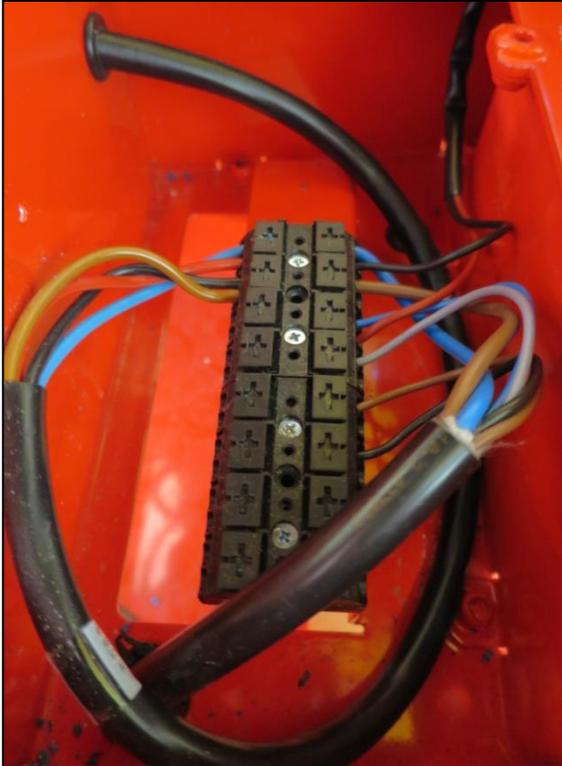


Fig.: 77

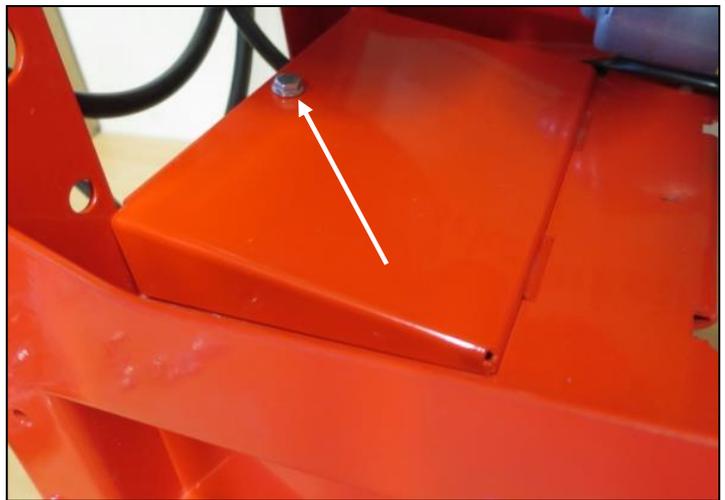


Fig.: 78

- Insert the enclosed hose clamp from the bottom onto the opening of the blower fan (Fig.:). Now insert the transition to the metering unit from the bottom onto the blower fan and fasten it with the hose clamp (Fig.:).

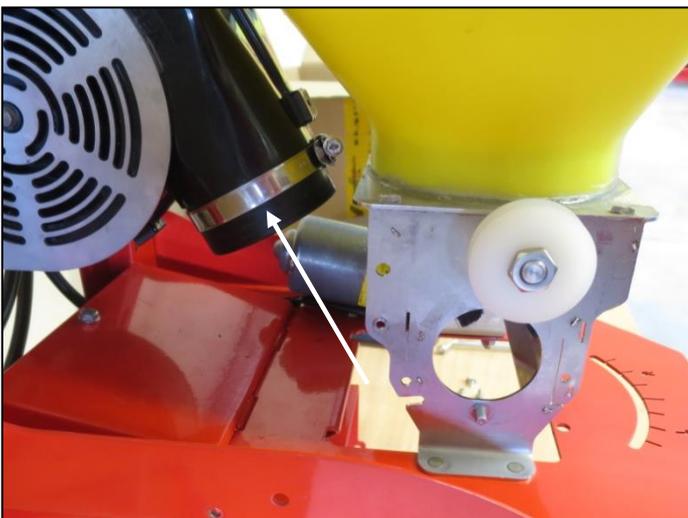


Fig.: 80



Fig.: 79

- Now install the air channel from the bottom through the large opening and fasten it on each side with one hexagon bolt (marked in Fig.: 81). Moreover, fasten the air channel both at the front (with the previously loosened flange nuts Fig.: 82) and at the rear (with the enclosed flange nuts Fig.: 83).

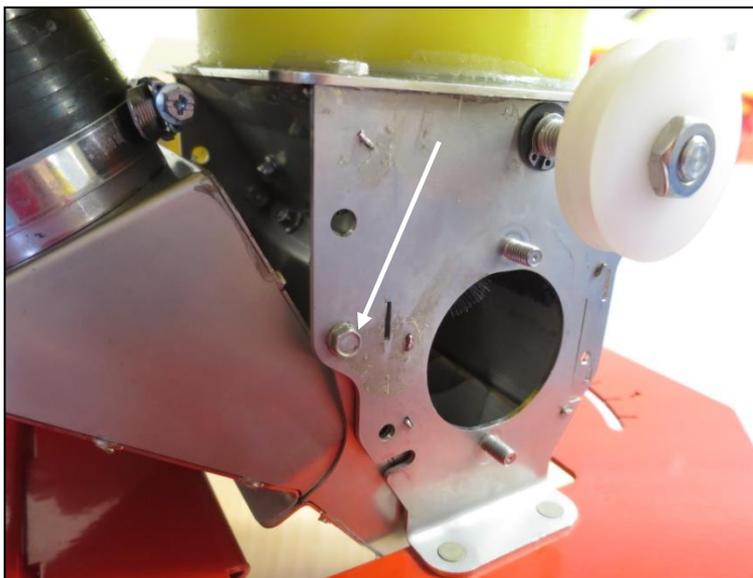


Fig.: 81

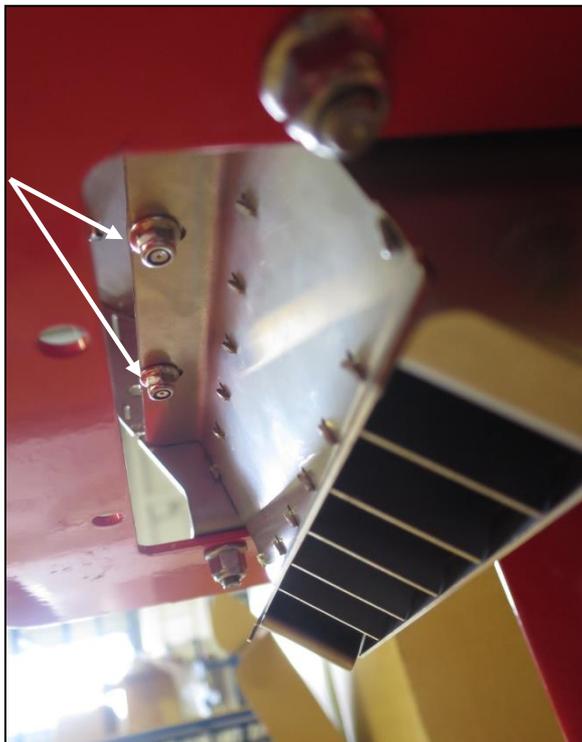


Fig.: 82



Fig.: 83

- Install the transition pieces from the bottom in the direction shown by the arrow **1** onto the air channel and fasten them on both sides with one quick-release fastener **2** each (Fig.: 84).

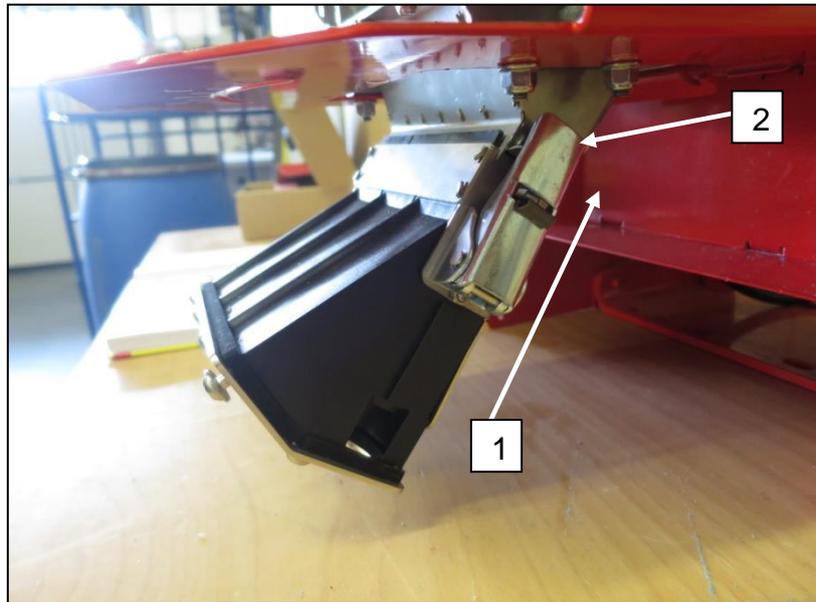


Fig.: 84

- To install the seeding shaft motor cover, insert from top to bottom **1** over the seeding shaft motor and fix it with the existing bolts **2** (Fig.: 85).

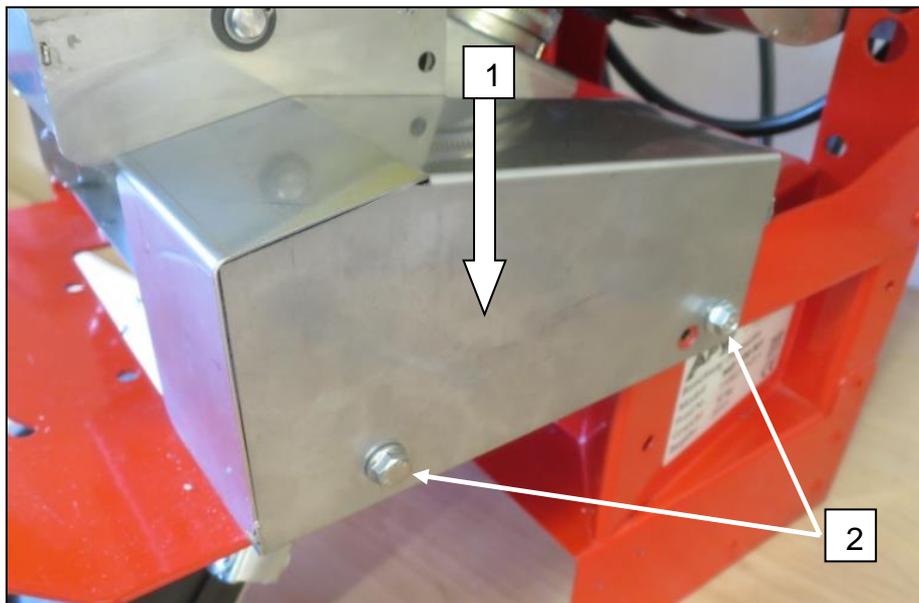


Fig.: 85

- Installing the seeding shaft
 - Insert the seeding shaft into the metering unit in the direction shown by the arrow (Fig.: 86). To do so, you must turn the seeding shaft until the feather key of the motor slips into the seeding shaft.
 - Position the cover plate with the mounted bearing flange on the side of the seeding shaft and fasten it with the locking nuts (Fig.: 87).
 - Install the rubber straps on the drive rollers (Fig.: 88, Fig.: 89).



Fig.: 86

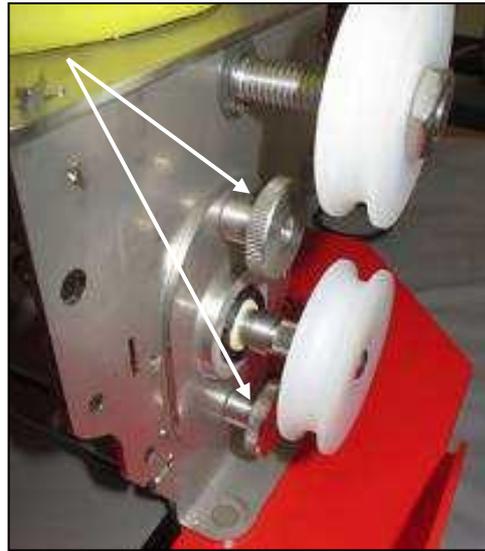


Fig.: 87



Fig.: 88



Fig.: 89

- Installing the cover hood for the drive rollers (Fig.: 90)
 - Install the cover hood for the drive roller from top to bottom onto the metering unit, so that the hooks on each side can be inserted in the intended slits.
 - Fasten the cover hood by pushing it down and thus locking it.

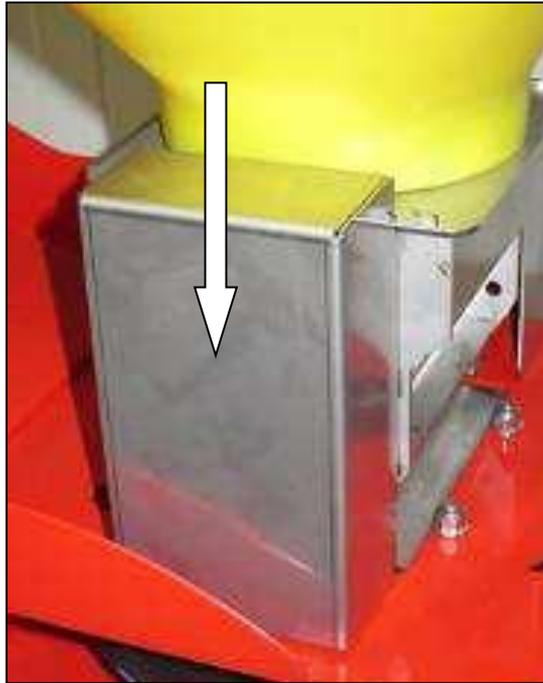


Fig.: 90

- Sealing the hopper

- To seal the hopper, take the 1.6 m long seal profile from the accessories kit for the electrical blower fan and position it on the top edge of the hopper (Fig.: 91, Fig.: 92).



Fig.: 91



Fig.: 92



NOTE: To obtain an optimal seal, ensure that when closing the hopper, the hubs of the hopper cover (marked in Fig.: 94) are resting on the outer side of the seal profile without squeezing the seal.



Fig.: 93

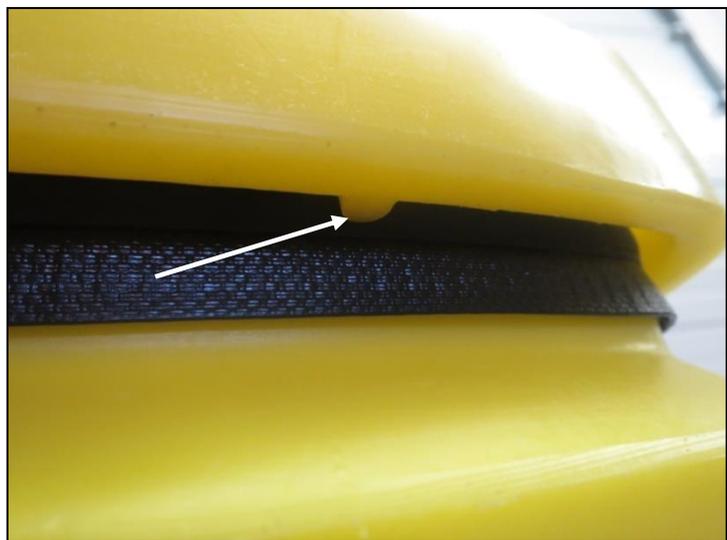


Fig.: 94

3.2 The conversion of an MDD to an MDG must be performed as follows:



PLEASE NOTE: The steps that need to be performed beforehand can be found on pages 28-33.

- Push the unit with the air channel and the transition pieces from below into the metering unit, as shown in Fig.: 95.

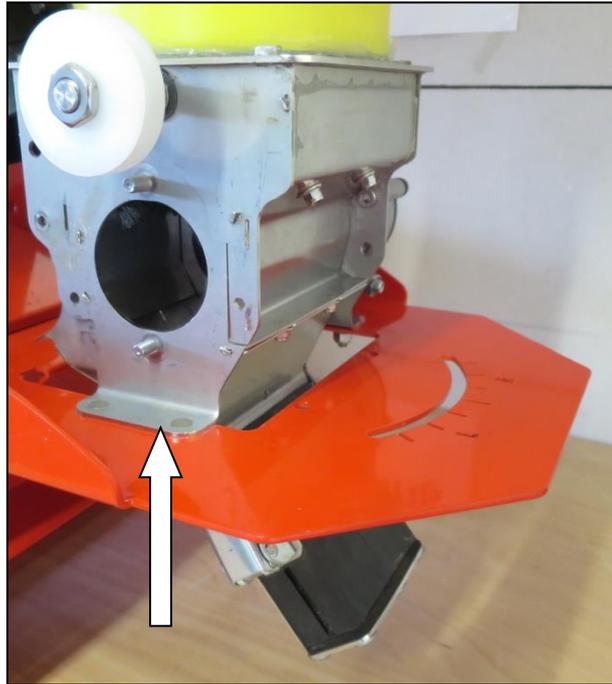


Fig.: 95

- Now install the blower fan cover plate on the opening on the rear side of the metering unit, as shown in Fig.: 96 and Fig.: 97.

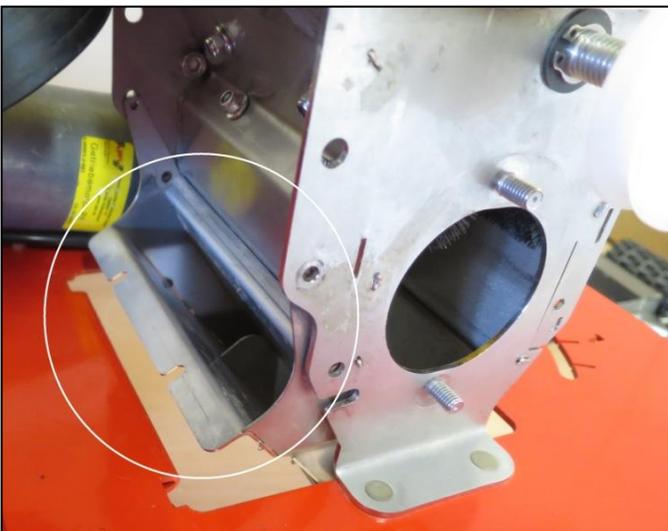


Fig.: 96

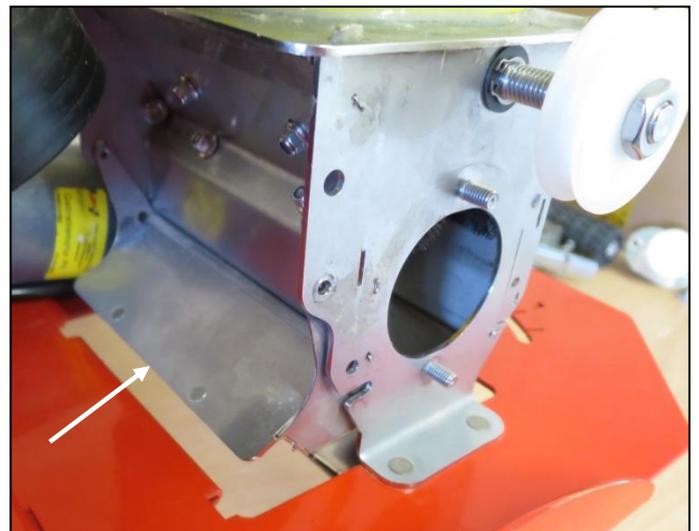


Fig.: 97

- Fasten the blower fan cover plate on the bottom side with the enclosed flange nuts (Fig.: 98). With the previously loosened flange nuts, fasten the air channel on the front side (Fig.: 99) and on the sides with one hexagon bolt respectively (Fig.: 100).

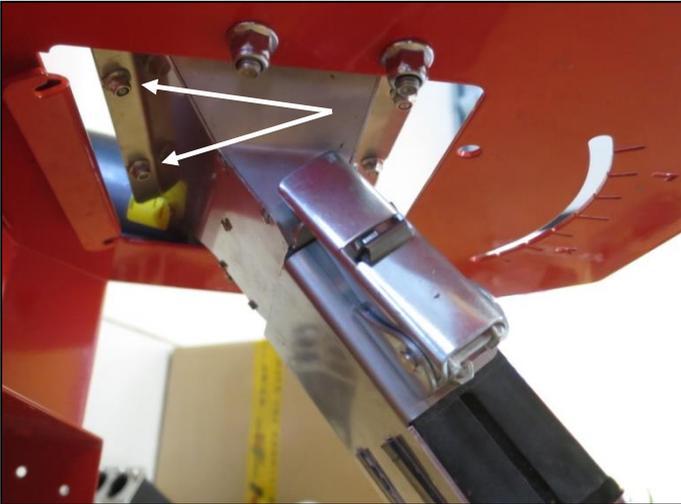


Fig.: 98

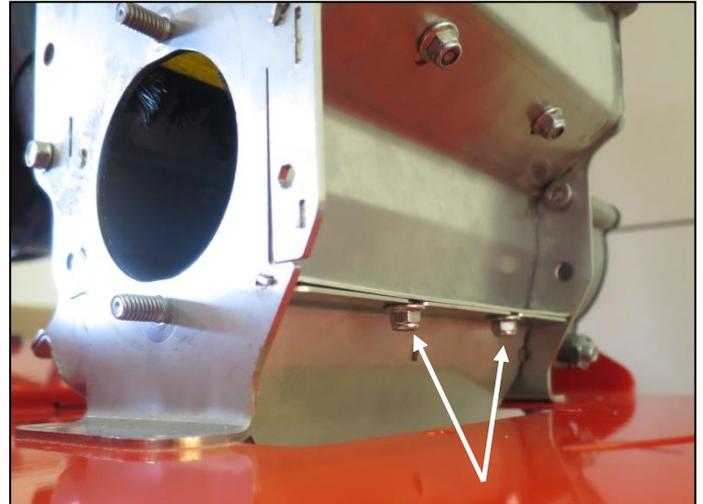


Fig.: 99

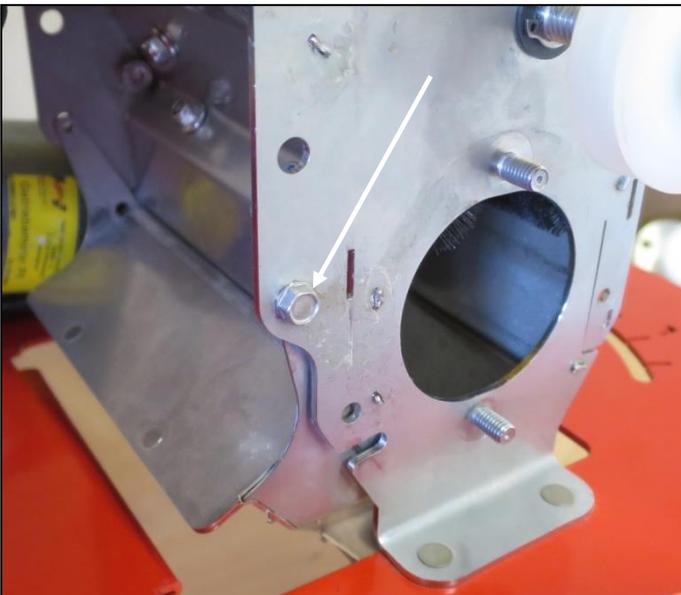


Fig.: 100

- To install the seeding shaft motor cover, position it from top to bottom **1** over the seeding shaft motor and fasten it with the existing bolts **2** (Fig.: 101).

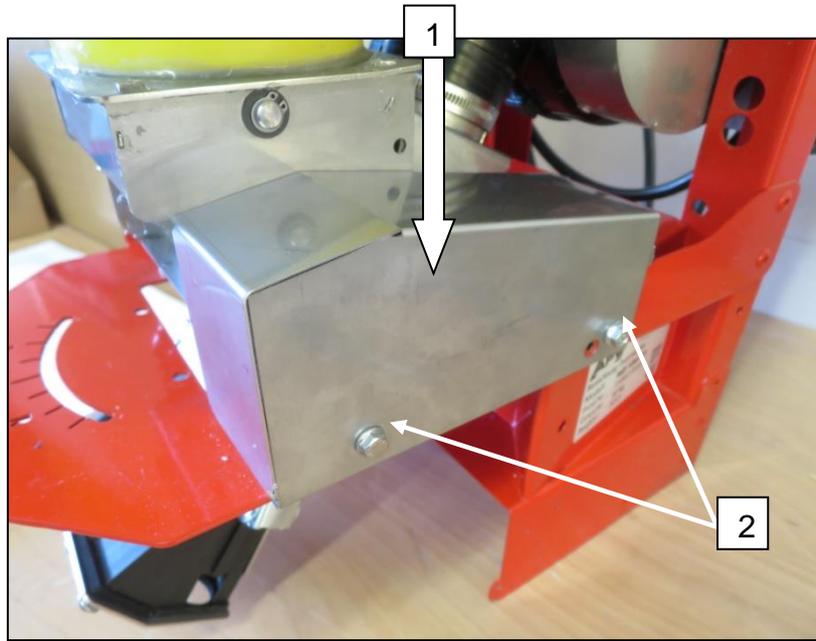


Fig.: 101

- Installing the seeding shaft
 - Insert the seeding shaft into the metering unit in the direction shown by the arrow (Fig.: 102). To do so, you must turn the seeding shaft until the feather key of the motor slips into the seeding shaft.
 - Position the cover plate with the mounted bearing flange on the side of the seeding shaft and fasten it with the locking nuts (Fig.: 103).
 - Install the rubber straps on the drive rollers (Fig.: 104, Fig.: 105).



Fig.: 102

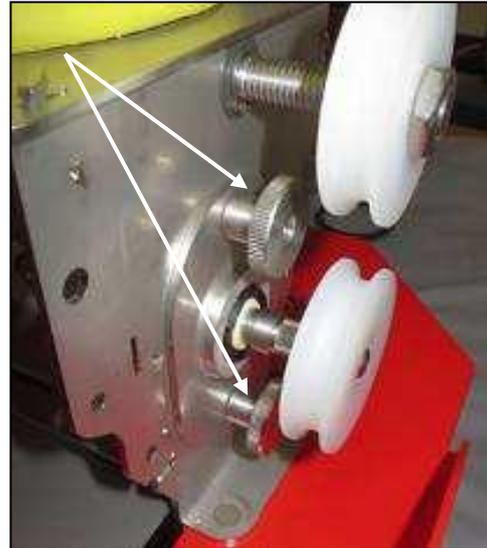


Fig.: 103



Fig.: 104



Fig.: 105

- Installing the cover hood for the drive rollers (Fig.: 106)
 - Install the cover hood for the drive roller from top to bottom onto the metering unit, so that the hooks on each side can be inserted in the intended slits.
 - Fasten the cover hood by pushing it down and thus locking it.

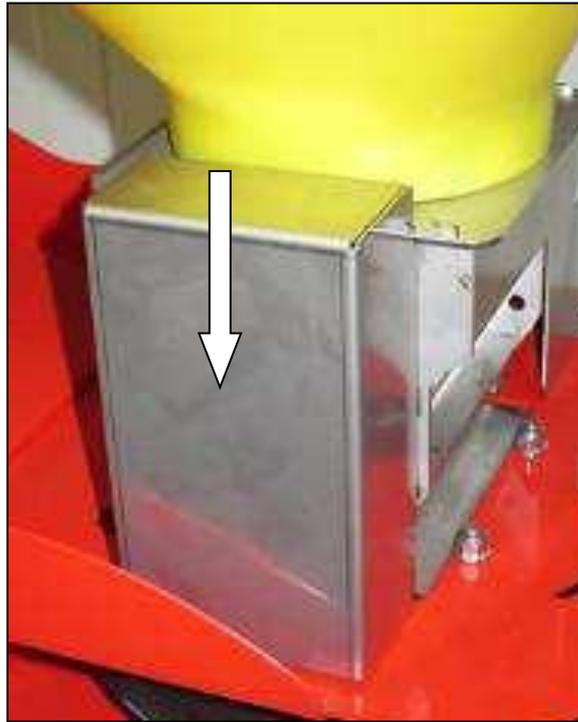


Fig.: 106

4 The conversion of an MDG to an MDD/MDP must be performed as follows:

- Remove the cover hood
 - Empty the hopper completely.
 - Remove the cover hood on the side for the drive rollers:
Insert a 4 mm Allen key through the intended opening 1 (Fig.: 107) and press it upwards 2 (Fig.: 108). As a result, the locking mechanism 3 is pulled inwards and the cover hood 4 (Fig.: 109) can be pulled off towards the top.

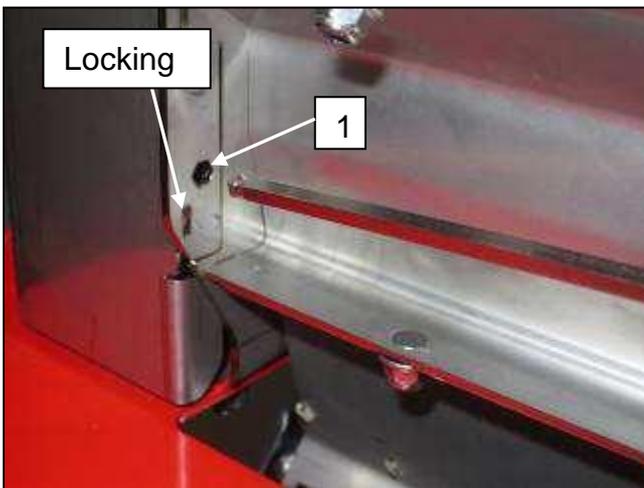


Fig.: 107

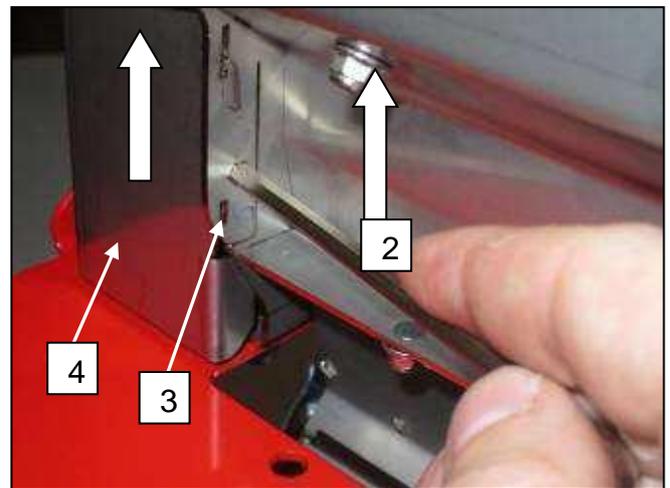


Fig.: 108

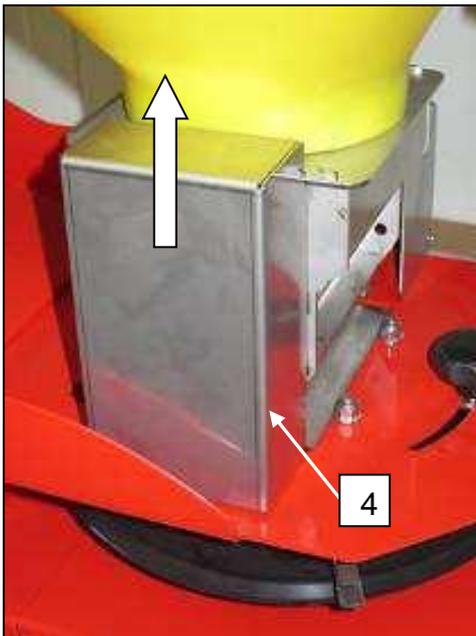


Fig.: 109

- Dismounting the seeding shaft

To dismount the seeding shaft, proceed as follows:



NOTE: When removing the seeding shaft, ensure that the hopper is completely empty!

- Pull the black rubber belts off of the drive rollers (Fig.: 110, Fig.: 111).
- Screw off the locking nuts of the cover plate for the seeding shaft on the side (Fig.: 112).
- Now remove the cover plate on the side and pull out the seeding shaft in the direction shown by the arrow (Fig.: 113).



TIP: Use the bearing pin with the feather key as an aid to pull the seeding shaft out of the metering unit.



Fig.: 110



Fig.: 111

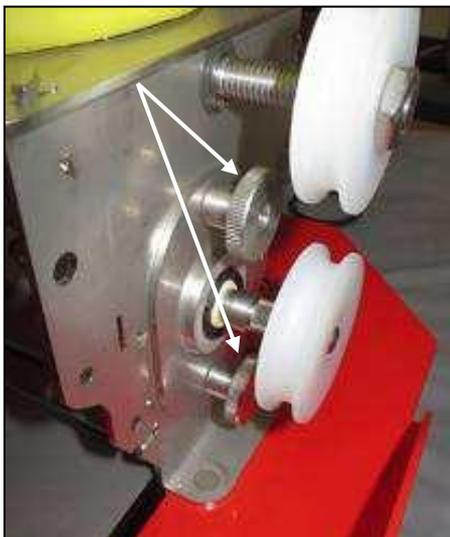


Fig.: 112



Fig.: 113

- To remove the seeding shaft motor cover, loosen the two bolts 1 marked in Fig.: 114 and pull off the cover towards the top 2.

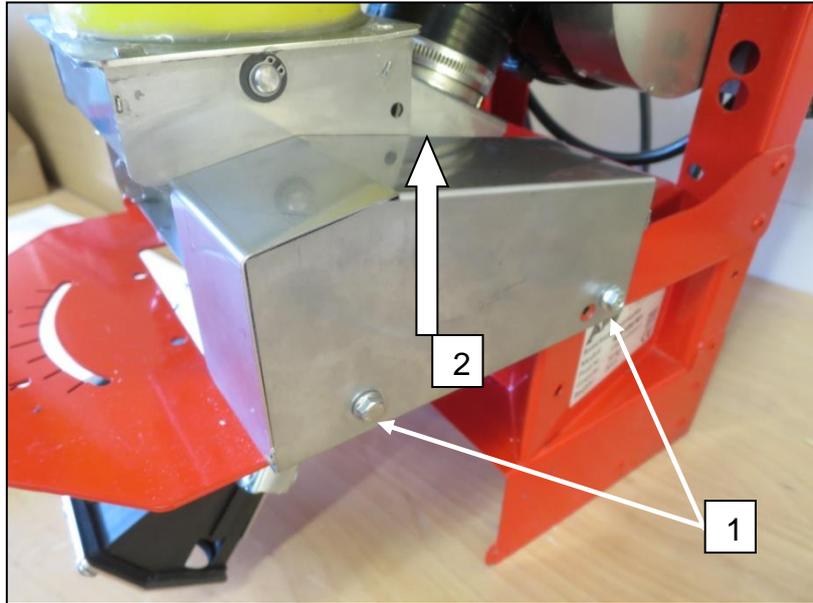


Fig.: 114

- Loosen the oval-head screws installed on both sides, which are marked in Fig.: 115.

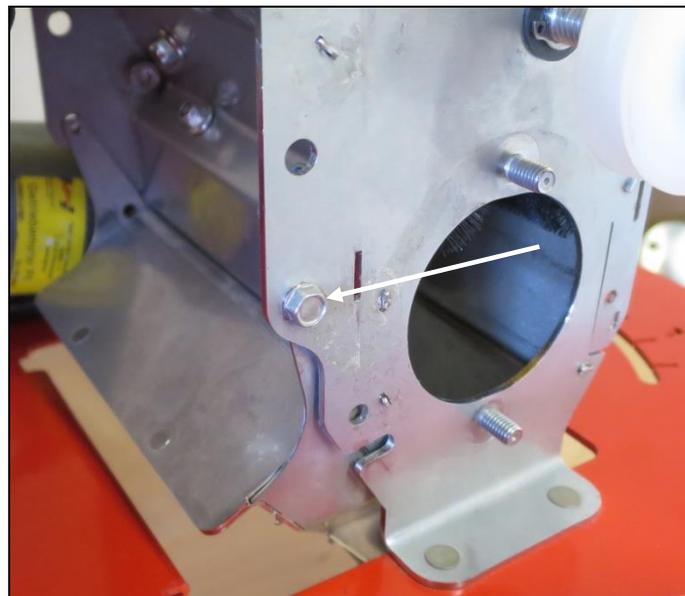


Fig.: 115

- Loosen the flange nuts on the bottom (Fig.: 116) or on the front (Fig.: 117) and then remove the unit with the air channel and the transition pieces towards the bottom, as shown in Fig.: 118.

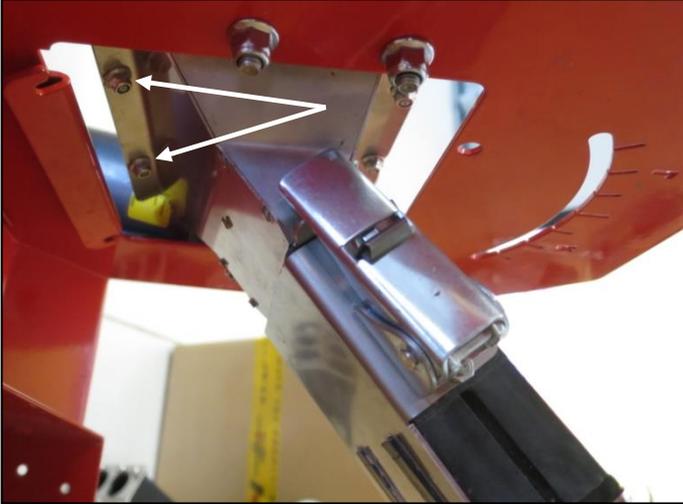


Fig.: 116

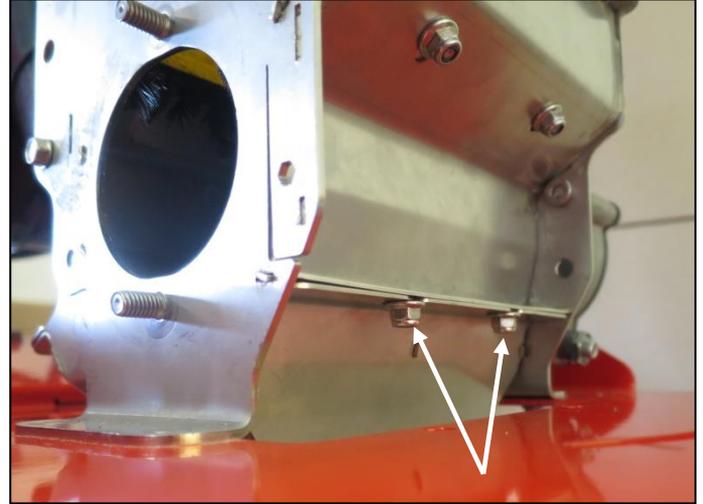


Fig.: 117

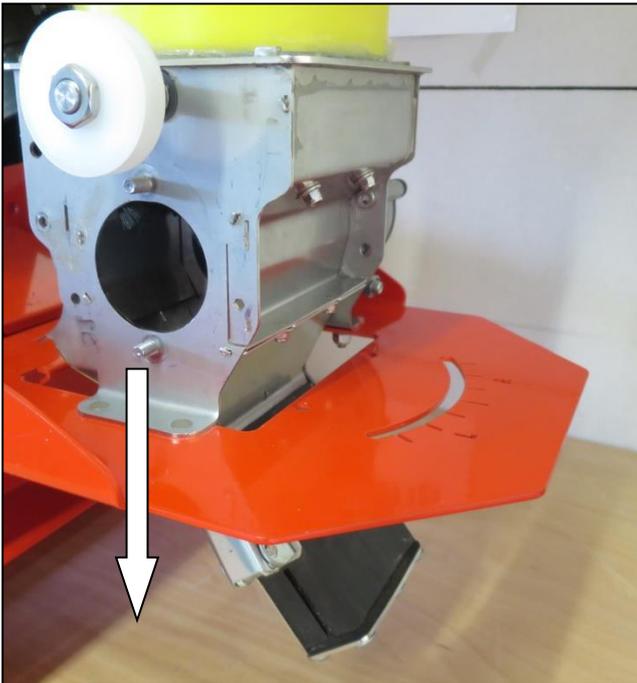


Fig.: 118

4.1 The conversion of an MDG to an MDD must be performed as follows:

- Install the impact point adjustment and the adapter plate of the disc spreader with the enclosed flange nuts (BN14476-M6), a hexagon bolt with flange (AAN13-M6x16) and the washers (BN1075-M6), as shown in Fig.: 119 and Fig.: 121.

Then install the assembled unit on the multi-metering unit with the flange nuts (BN14476-M6) marked in Fig.: 120 and the star knob screw (Fig.: 120, Fig.: 122).

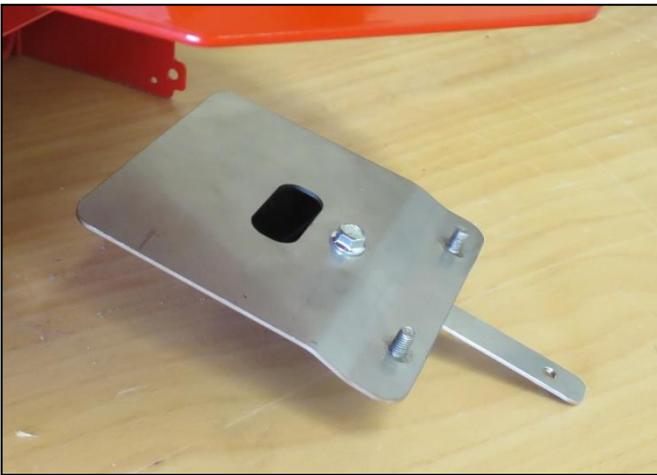


Fig.: 119

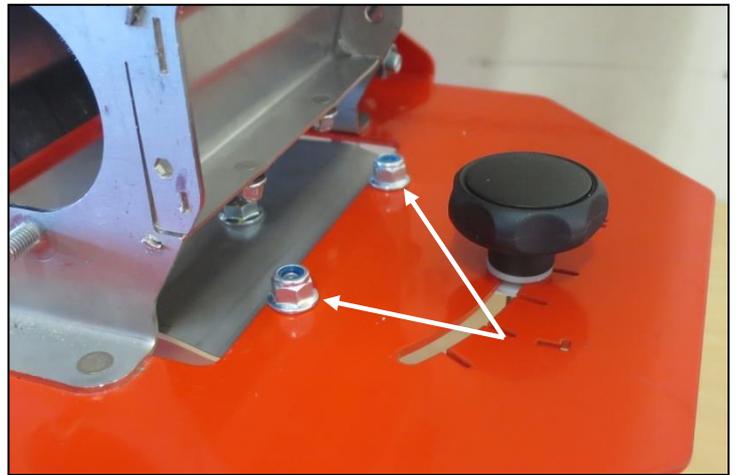


Fig.: 120

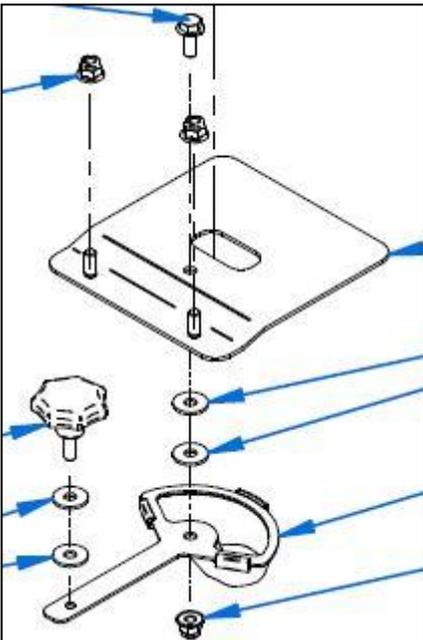


Fig.: 121



Fig.: 122

- The funnel is pushed into the frame from the rear in the direction shown by the arrow (Fig.: 123, Fig.: 124), with the notches pointing to the front. Fasten the funnel with 2 flange nuts (BN14476-M4) as shown in Fig.: 125.

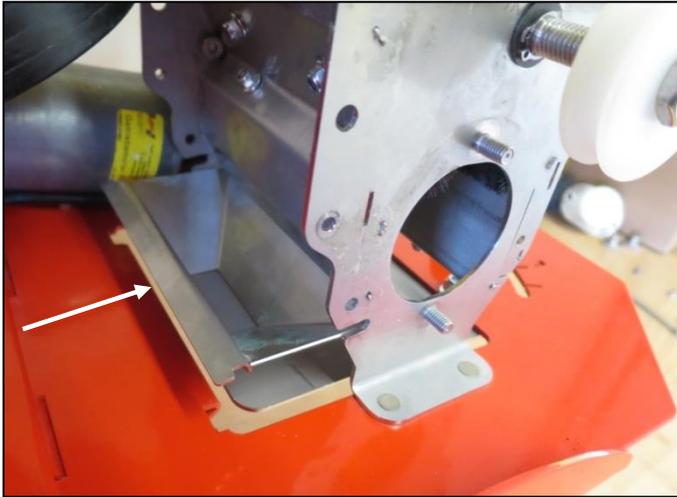


Fig.: 123



Fig.: 124

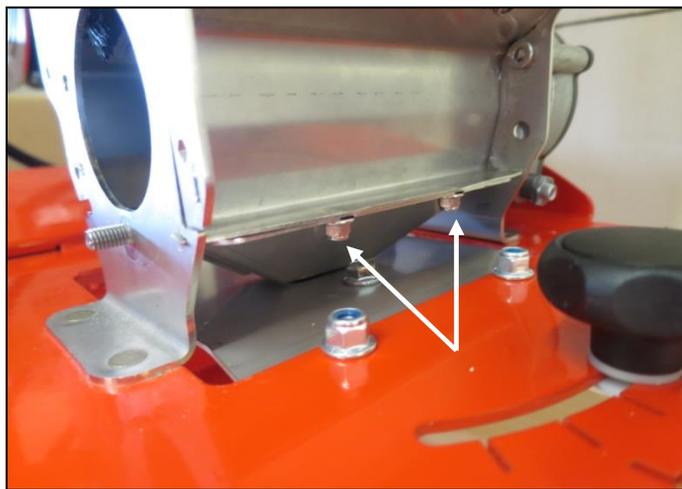


Fig.: 125

- In the next step, the quick-release fasteners are installed to be able to install the plate frame later on.
The 3 holes intended for this purpose are already on the multi-metering unit and are marked in Fig.: 126. The two quick-release fasteners are installed from the outside with respectively 3 hexagon bolts (BN5951-M4x12) and 3 flange nuts (BN14476-M4) (Fig.: 127).



Fig.: 126



Fig.: 127

- The spreading plate motor already installed in the plate frame (Fig.: 128) is now electrically connected to the multi-metering unit.



Fig.: 128

- To connect the cable from the spreading plate motor to the multi-metering unit, position the plate frame as shown in Fig.: 129.

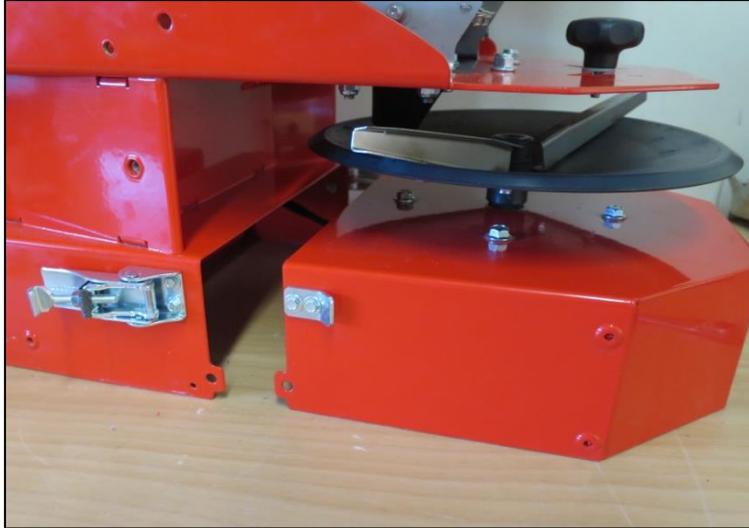


Fig.: 129

- Then loosen the bolt marked in Fig.: 130 and remove the cover to reach the connectors on the multi-metering unit.

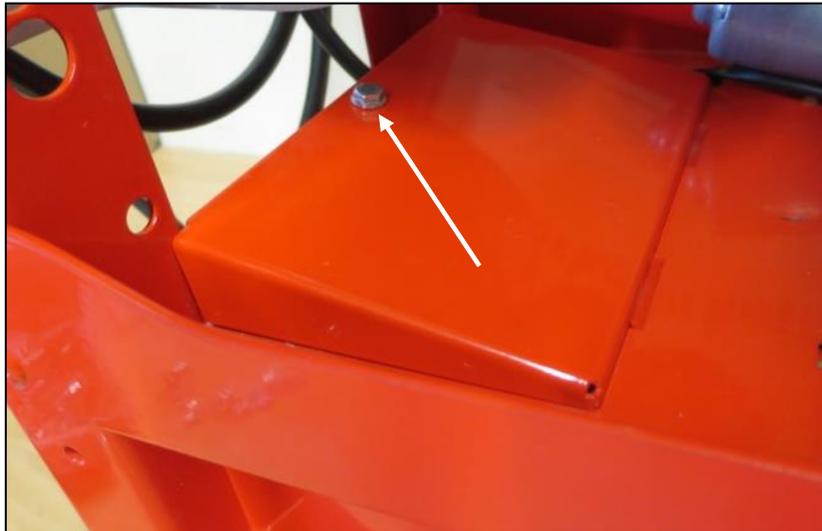


Fig.: 130

- Pull the cable for the spreading plate motor through the grommet on the bottom side of the spreader unit (Fig.: 131).

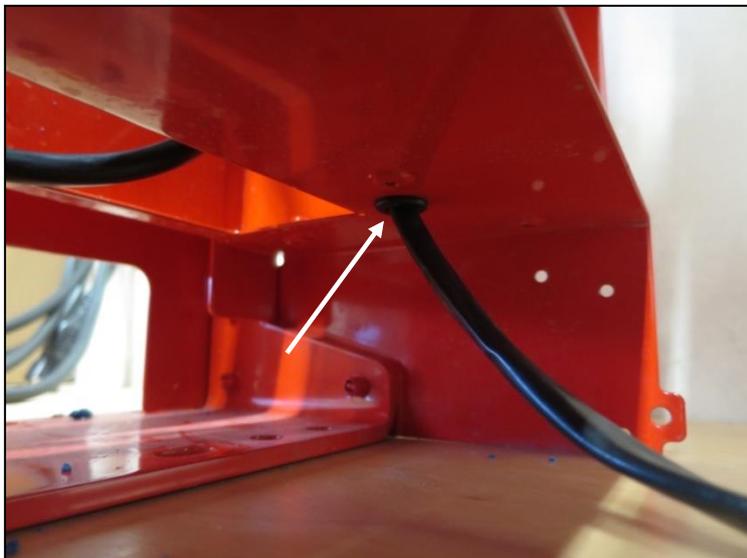


Fig.: 131

- Connect the cable of the spreading plate motor (black, red), as shown on the connection diagram (see page 23, Fig.: 48), on the left side of the terminal strip (Fig.: 132).

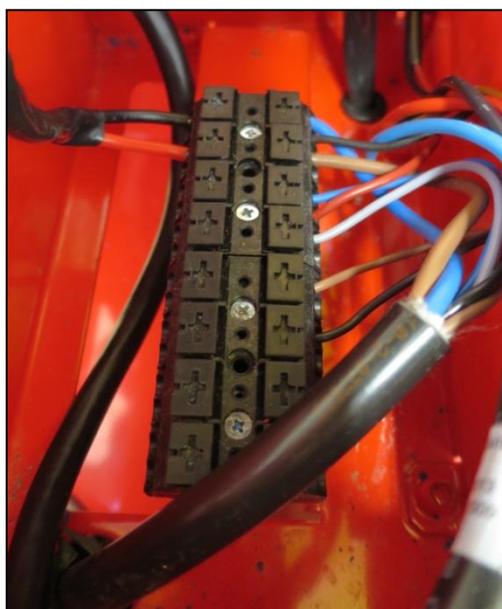


Fig.: 132

After you have connected the spreading plate motor to the multi-metering unit, fasten the cover on the implement again above the terminal strip using the previously loosened bolt.

- Now position the plate frame relative to the spreader unit such that the respective holes overlap (marked in Fig.: 133). In doing so, the two tabs of the plate frame are located on the inner side of the spreader unit.



Fig.: 133

- To fasten the plate frame (Fig.: 134), use the enclosed hexagon bolts (AAN13-M6x16) and fasten each of these with a flange nut (BN14476-M6).

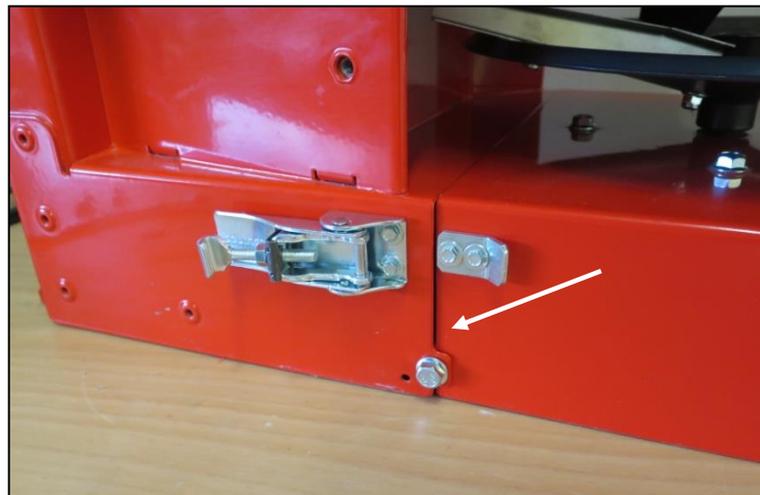


Fig.: 134

- Now you can still adjust the tension of the two quick-release fasteners (Fig.: 135). To do this, turn the hooks with the thread. To fasten the plate frame, hang the hooks of the quick-release fastener in the hooks of the plate frame on both sides. Then fix the adjustment by tightening the nut on the quick-release fastener.



Fig.: 135

- To install the seeding shaft motor cover, insert it from top to bottom **1** over the seeding shaft motor and fix it with the existing bolts **2** (Fig.: 136).

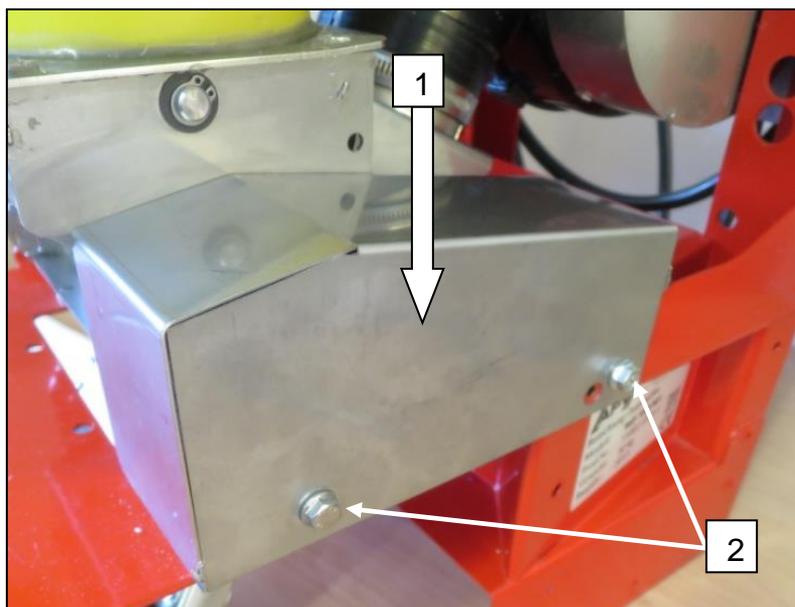


Fig.: 136

- Installing the seeding shaft
 - Insert the seeding shaft into the metering unit in the direction shown by the arrow (Fig.: 137). To do so, you must turn the seeding shaft until the feather key of the motor slips into the seeding shaft.
 - Position the cover plate with the mounted bearing flange on the side of the seeding shaft and fasten it with the locking nuts (Fig.: 138).
 - Install the rubber straps on the drive rollers (Fig.: 139, Fig.: 140).



Fig.: 137

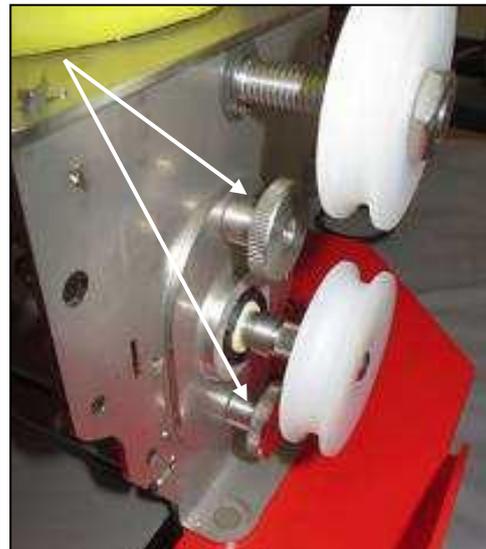


Fig.: 138



Fig.: 139



Fig.: 140

- Installing the cover hood for the drive rollers (Fig.: 141)
 - Install the cover hood for the drive roller from top to bottom onto the metering unit, so that the hooks on each side can be inserted in the intended slits.
 - Fasten the cover hood by pushing it down and thus locking it.

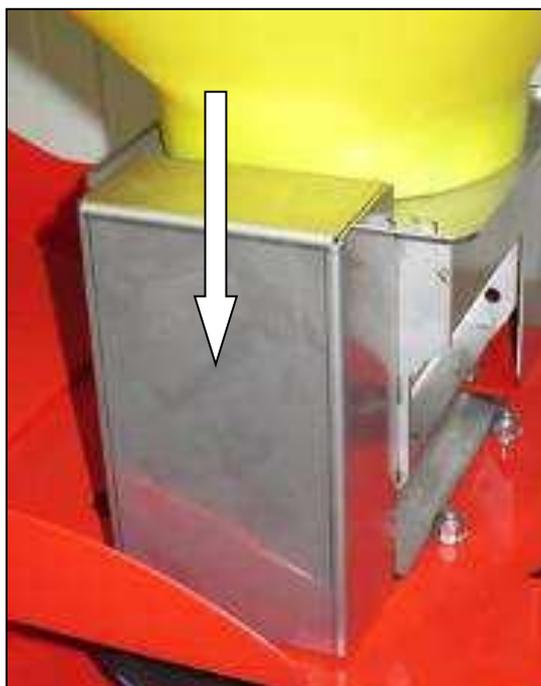


Fig.: 141

4.2 The conversion of an MDG to an MDP must be performed as follows:



PLEASE NOTE: The steps that need to be performed beforehand can be found on pages 46-49.

- To install the blower fan on the frame of the multi-metering unit, use the hexagon bolts with flange provided with the accessories kit. Screw the blower fan onto the steel frame using the enclosed flange nuts (8 bolts as shown in Fig.: 142) and the existing holes.



Fig.: 142

- For the electrical connection of the blower fan to the multi-metering unit, insert the cable of the blower fan through the grommet marked in Fig.: 142.

- Then connect the cable on the left side of the terminal strip (Fig.: 143) according to the connection diagram (see page 23, Fig.: 48). Now close the cover again with the previously loosened hexagon bolt (Fig.: 144).

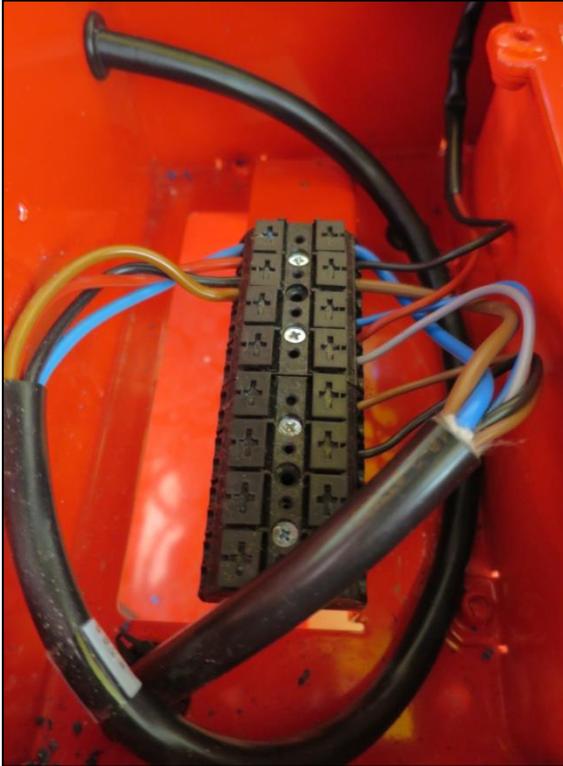


Fig.: 143

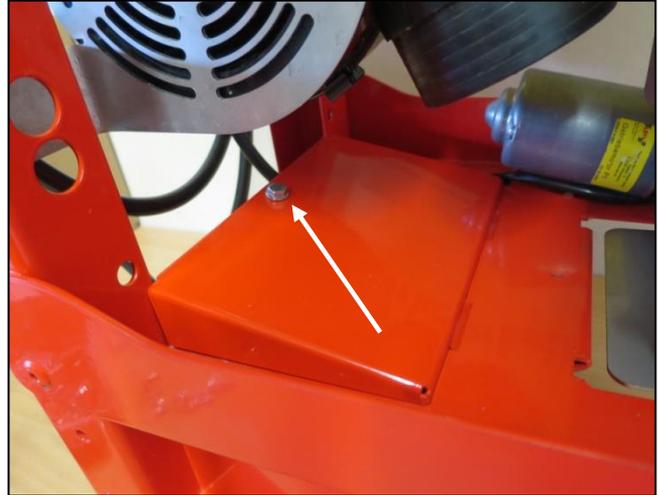


Fig.: 144

- Insert the enclosed hose clamp from the bottom onto the opening of the blower fan (Fig.: 145). Now insert the transition to the metering unit from the bottom onto the blower fan and fasten it with the hose clamp (Fig.: 146).

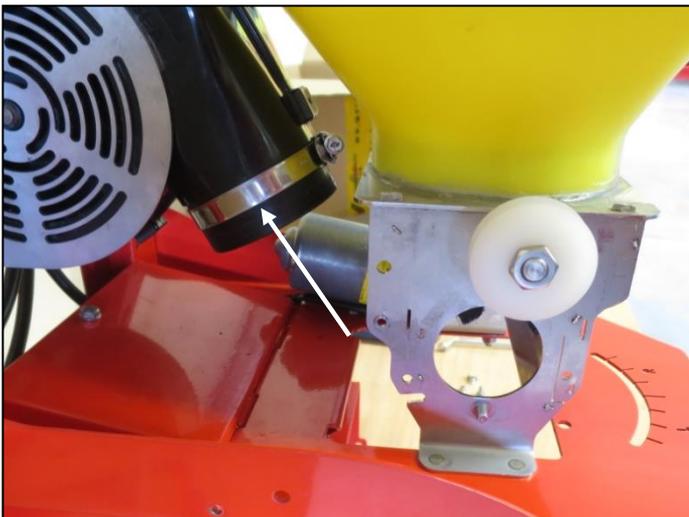


Fig.: 145



Fig.: 146

- Now install the air channel from the bottom through the large opening and fasten it on each side with one hexagon bolt (marked in Fig.: 147). Moreover, fasten the air channel both at the front (with the previously loosened flange nuts Fig.: 148) and at the rear (with the enclosed flange nuts Fig.: 149).

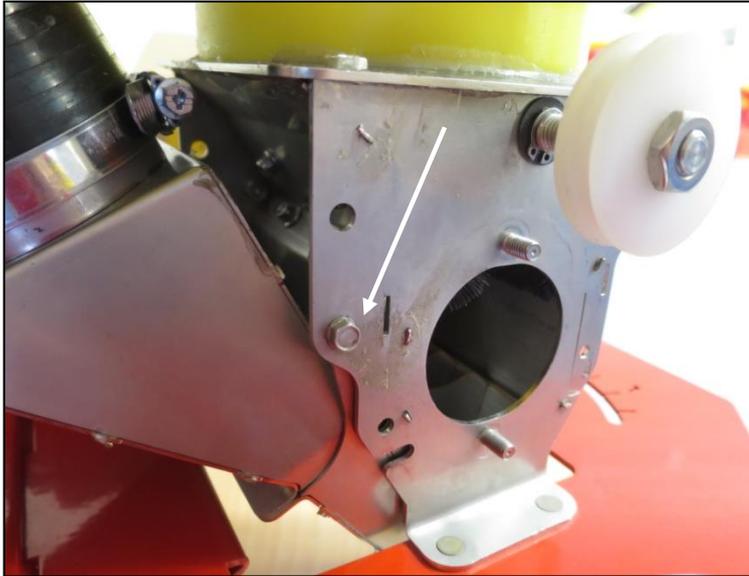


Fig.: 147

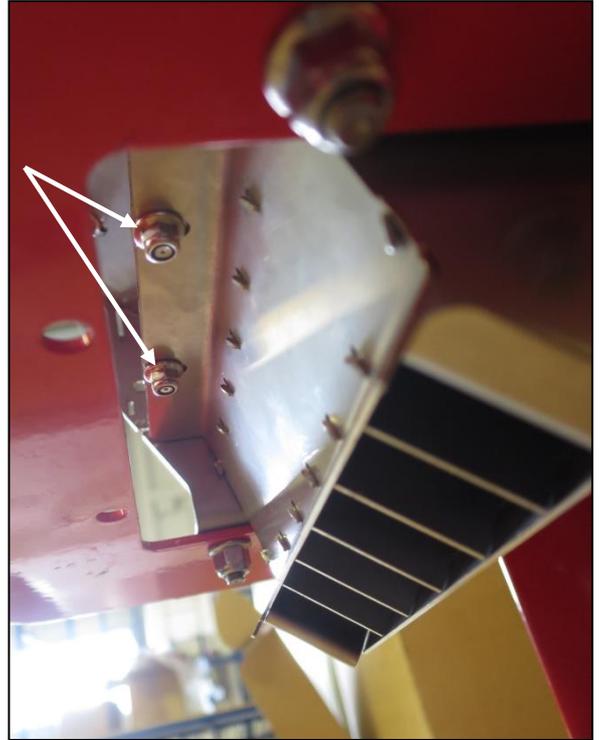


Fig.: 148

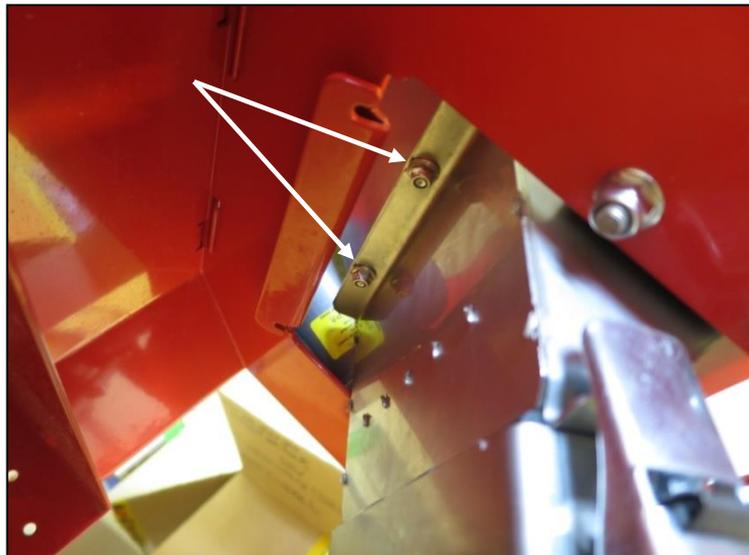


Fig.: 149

- Install the transition pieces from the bottom in the direction shown by the arrow 1 (Fig.: 150) onto the air channel and fasten them on both sides with one quick-release fastener 2 each.

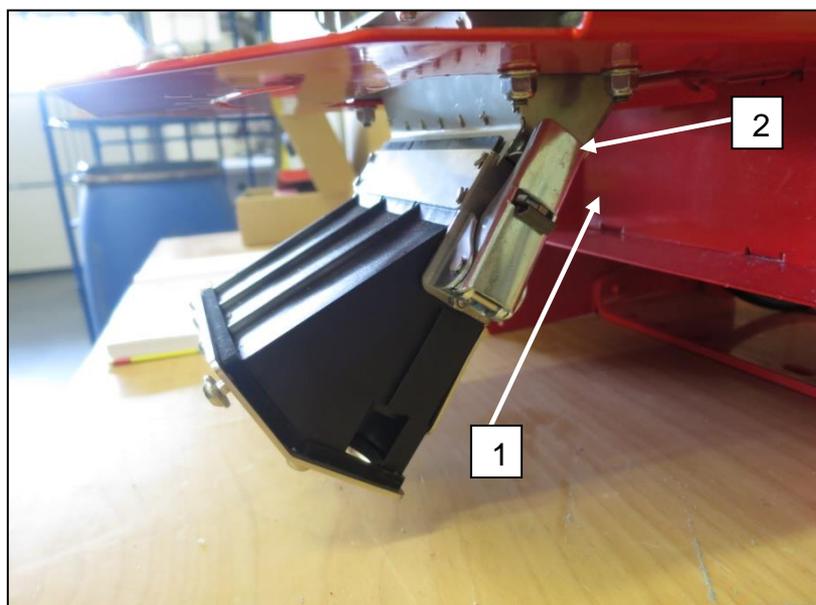


Fig.: 150

- To install the seeding shaft motor cover, position it from top to bottom 1 (Fig.: 151) over the seeding shaft motor and fasten it with the existing bolts 2.

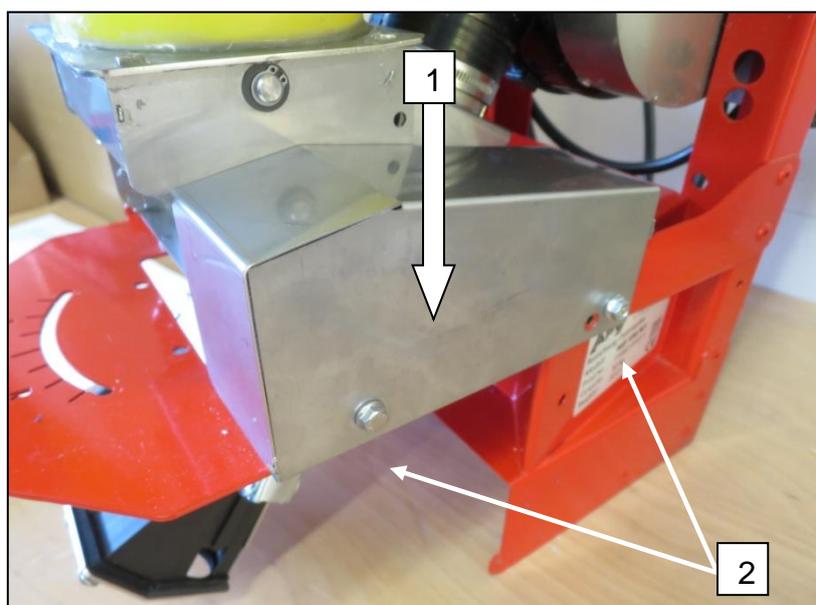


Fig.: 151

- Installing the seeding shaft
 - Insert the seeding shaft into the metering unit in the direction shown by the arrow (Fig.: 152). To do so, you must turn the seeding shaft until the feather key of the motor slips into the seeding shaft.
 - Position the cover plate with the mounted bearing flange on the side of the seeding shaft and fasten it with the locking nuts (Fig.: 153).
 - Install the rubber straps on the drive rollers (Fig.: 154, Fig.: 155).



Fig.: 152

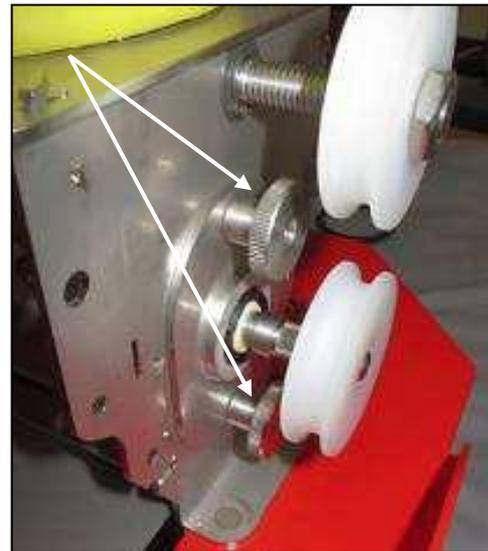


Fig.: 153



Fig.: 154



Fig.: 155

- Installing the cover hood for the drive rollers (Fig.: 156)
 - Install the cover hood for the drive roller from top to bottom onto the metering unit, so that the hooks on each side can be inserted in the intended slits.
 - Fasten the cover hood by pushing it down and thus locking it.

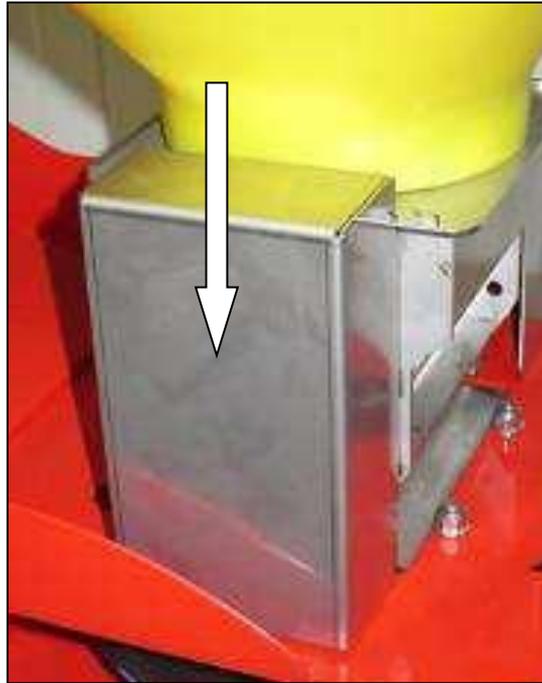
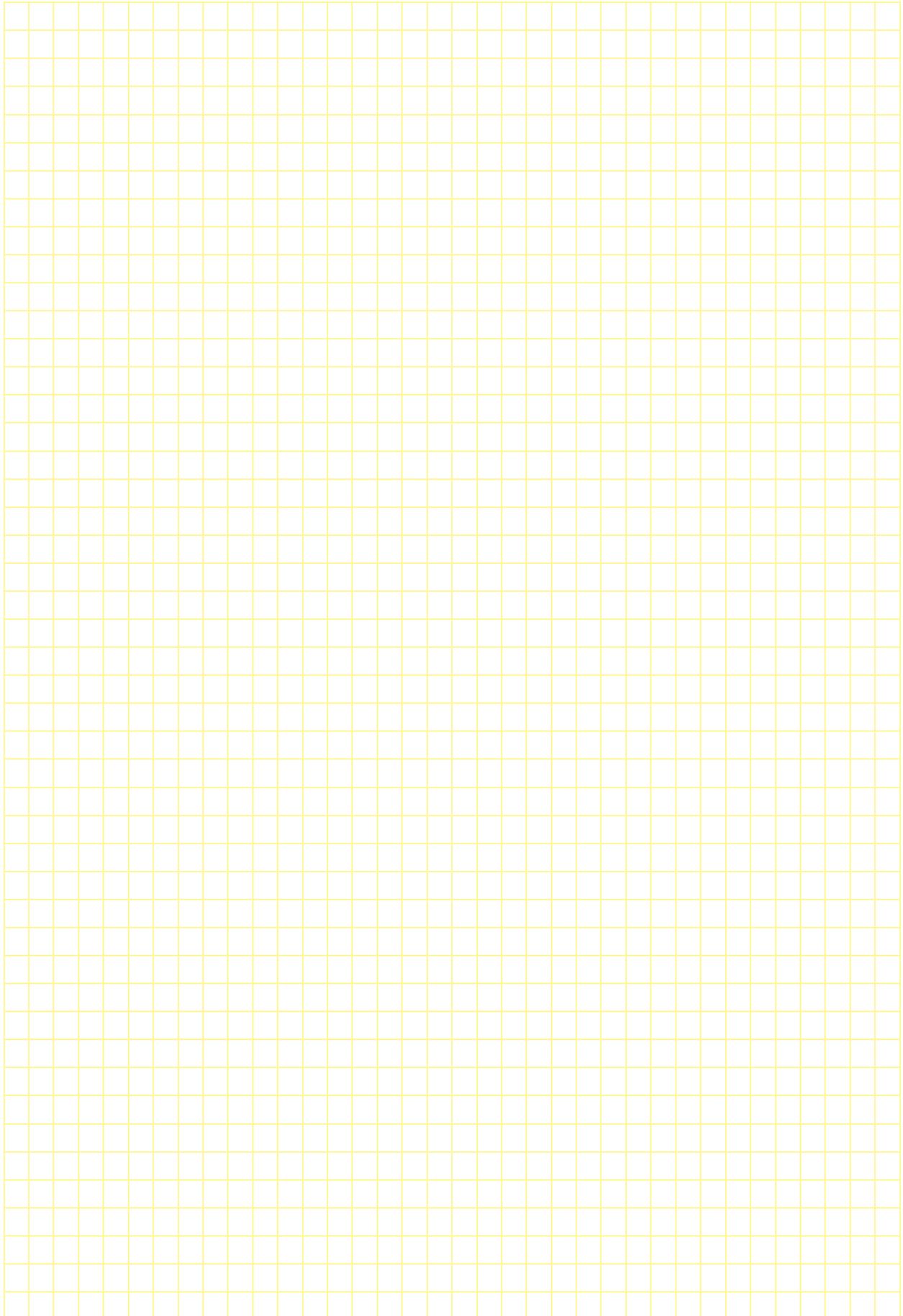
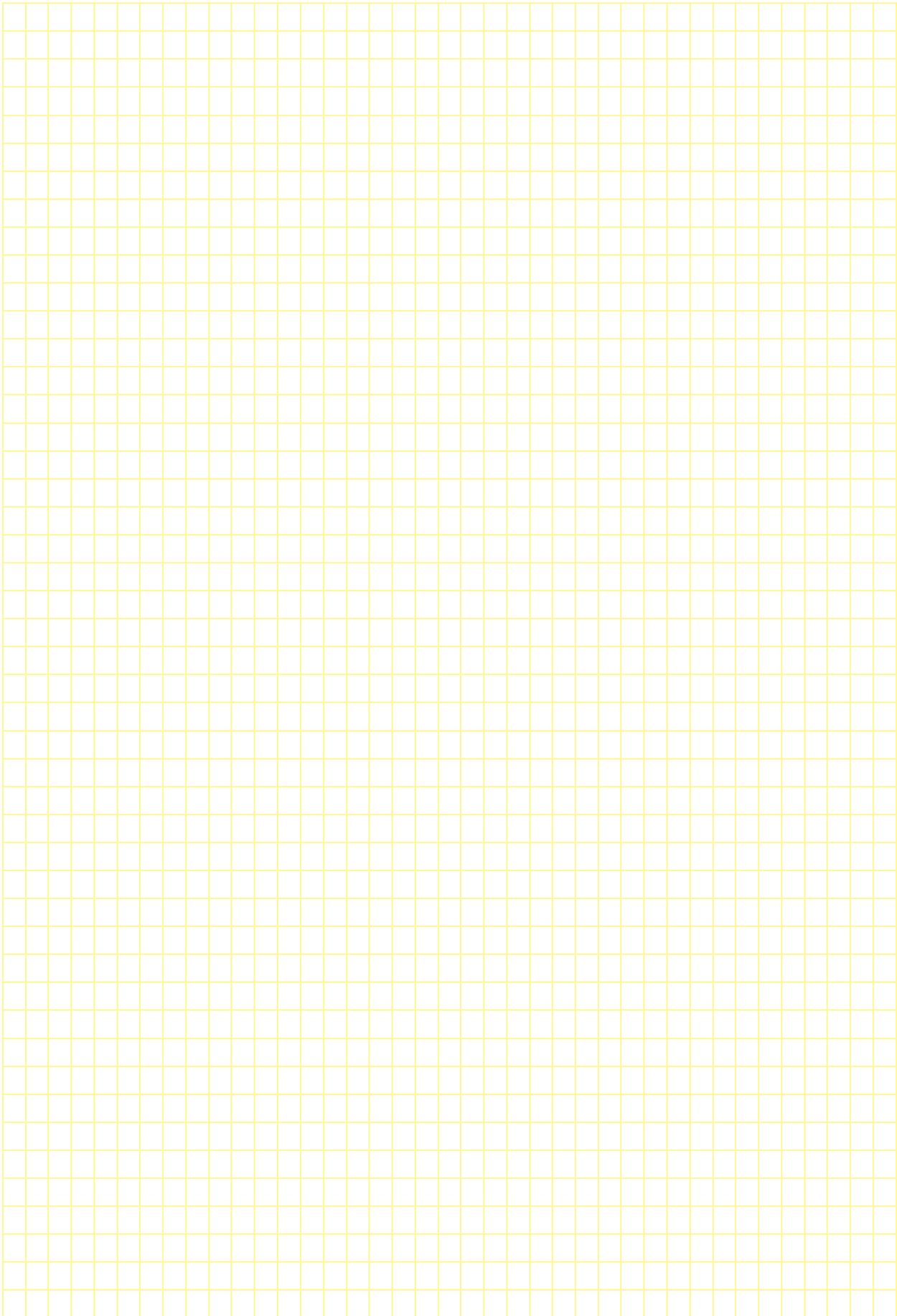


Fig.: 156

5 Notes

A large grid of yellow graph paper for taking notes. The grid consists of 20 columns and 30 rows of small squares, providing a structured space for writing.





Qualität für Profis

- seit 1997 -



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