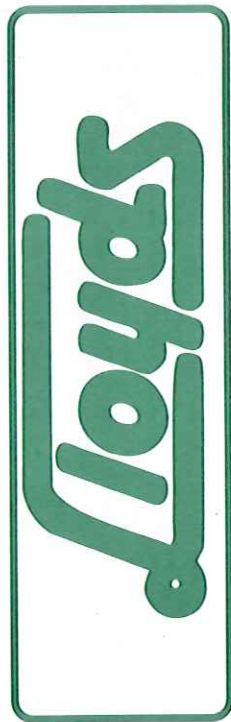


GreenLine Combi-trailer SCH230 GM151

GreenLine Combi-trailer



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Type SCH230 GM151

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Operation instructions

and

Spare parts list

Valid from Machine No. (SCH230) 482.771 and (GM151) 501.000.

GreenLine Combi-trailer SCH230 GM151

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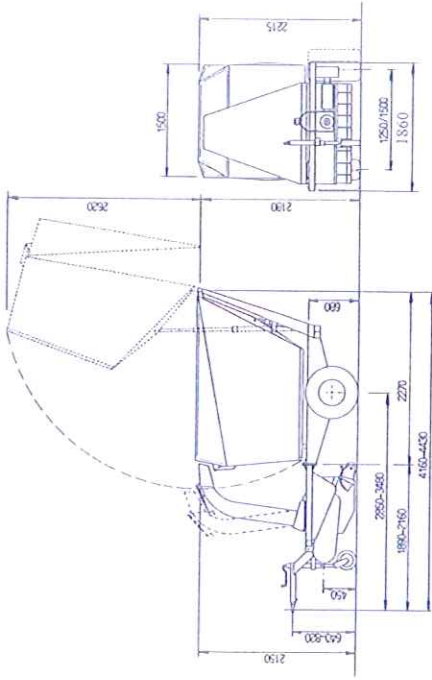
Nr 505 - 5
&
555 - 5

FLAIL CUTTER
Extra equipment

Pos.	Spare part no.	Description	Pieces
1	360.560.600	Drawbar, overrun brake	1
2	967.505.000	Brake shaft - complete	1
3	L27.000.008	Thimble	1
4	485.505.000	Brake cable	1
5	L26.000.008	Wirelock	3
6	651.505.000	Bowden cable, brake	1
7	360.560.700	Drawbar, overrun brake	1
8	967.505.701	Brake shaft - complete	1
9	L20.000.002	Rigging screw	1
10	485.500.700	Brake cable	1
11	651.500.700	Bowden cable, brake	1
12	485.500.700	Brake cable	1
13	651.500.700	Bowden cable, brake	1
14	152.505.700	Brake hand lever T81	1

GreenLine Combi-trailer SCH230 GM151

3 Technical data



Description:

GreenLine
Combi-trailer
SCH230 GM151

Type	3.5 m ³
Volume	47°
Tipping angle	10.075-15.3°
Tyres	1250/1500 mm
Track width	
Net weight	1100 kg
Hitch weight, driving	250 kg
Net weight, axel	900 kg
Payload	1700 kg
Total weight	2800 kg
Oil quantity	6 litres
Flail cutter	
Performance width	1500 mm
Cutting height, 11 steps	0-125 mm
Flail type/number	Blade flail /30
Flail dimension	165x65 mm
Rotation diameter	590 mm
Rotor speed	1584 rpm
Power transmission	540 rpm
V-belt, number	4 pcs.
Power required, kW/HP	>26/35
Brake system	hand-/overrun-hydr. brake (extra equipment)
Drawbar for high and low draw hook	Height/Length adjustable
Hydraulic connection	Single-acting
Lifting of cutter	with automatic compulsory
Corrosive treatment/colour	Priming/RAL 2011

Subject to alterations of technical data and equipment.

FLAIL CUTTER

Extra equipment

No 505 - 4
&
560-4

Part no.	Spares part no.	Description	Picture
1	070 570 000	Spreader wheel	1
2	070 570 000	Spreader extra, complete	1
3	190 500 000	Spreader wheel, left	1
4	A30 000 012	Washer	1
5	231 500 001	Spine	1
6	070 570 000	Spreader wheel, right	1
7	A00 070 000	Spreader extra	1
8	360 505 000	Spreader wheel, left	1
9	360 505 000	Spreader wheel, right	1
10	070 570 000	Spreader wheel, left	1
11	070 570 000	Spreader wheel, right	1
12	360 505 000	Spreader wheel, left	1
13	A30 000 015	Spreader wheel, right	1
14	070 570 000	Spreader wheel, left	1
15	070 570 000	Spreader wheel, right	1
16	F30 000 300	Spreader wheel, left	1
17	360 505 000	Spreader wheel, right	1
18	070 570 000	Spreader wheel, left	1
19	070 570 000	Spreader wheel, right	1
20	A30 000 012	Spreader wheel, left	1
21	070 570 000	Spreader wheel, right	1
22	070 570 000	Spreader wheel, left	1
23	070 570 000	Spreader wheel, right	1
24	070 570 000	Spreader wheel, left	1
25	070 570 000	Spreader wheel, right	1
26	070 570 000	Spreader wheel, left	1
27	070 570 000	Spreader wheel, right	1
28	070 570 000	Spreader wheel, left	1
29	070 570 000	Spreader wheel, right	1
30	070 570 000	Spreader wheel, left	1
31	070 570 000	Spreader wheel, right	1
32	070 570 000	Spreader wheel, left	1
33	070 570 000	Spreader wheel, right	1
34	070 570 000	Spreader wheel, left	1
35	070 570 000	Spreader wheel, right	1
36	070 570 000	Spreader wheel, left	1
37	070 570 000	Spreader wheel, right	1
38	070 570 000	Spreader wheel, left	1
39	070 570 000	Spreader wheel, right	1
40	070 570 000	Spreader wheel, left	1
41	070 570 000	Spreader wheel, right	1
42	070 570 000	Spreader wheel, left	1
43	070 570 000	Spreader wheel, right	1
44	070 570 000	Spreader wheel, left	1
45	070 570 000	Spreader wheel, right	1
46	070 570 000	Spreader wheel, left	1
47	070 570 000	Spreader wheel, right	1
48	070 570 000	Spreader wheel, left	1
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79	070 570 000	Spreader wheel, right	1
80	070 570 000	Spreader wheel, left	1
81	070 570 000	Spreader wheel, right	1
82	070 570 000	Spreader wheel, left	1
83	070 570 000	Spreader wheel, right	1
84	070 570 000	Spreader wheel, left	1
85	070 570 000	Spreader wheel, right	1
86	070 570 000	Spreader wheel, left	1
87	070 570 000	Spreader wheel, right	1
88	070 570 000	Spreader wheel, left	1

4.1 Level adjustment of the chassis

Place the tractor in front of the machine (approx. 5-10 cm from the drawbar). The starting point for correct assembly being that the chassis frame of the high-tip trailer is adjusted to HORIZONTAL in relation to the ground.

Adjustment is made, by turning the jack castor wheel up or down until the chassis frame is horizontal. (Fig. 2)

Check with a spirit level or by checking the measurement of the chassis frame at the front and rear of the machine (X-measures).

Note: The height of the chassis is dependant on the tyre pressure.

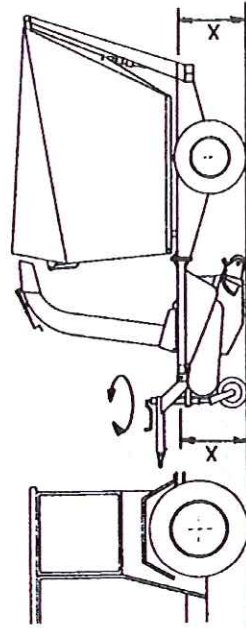


Fig. 2.

4.2 Adjustment of the height of the drawbar

The height of the drawbar is now adjusted with the chassis in horizontal position. The drawbar may be adjusted to the tractor both with

Low draw (The yoke under the PTO-shaft. (Fig. 4) and

High draw (The yoke over the PTO-shaft. (Fig. 5) (mainly for German tractors).

The drawbar is adjustable in 7 levels at 60 mm intervals (4 for high and 3 for low draw).

Adjustment (fig. 4 and 5) is performed by disconnecting the 4 bolts B, and adjusts the drawbar upward or downward until the eye is level with the yoke on the tractor.

Note: The yoke of certain tractors may be moved/turned to achieve fine adjustment without altering the chassis height of the machine from horizontal.

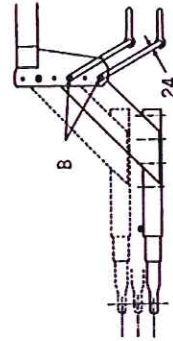


Fig. 4.

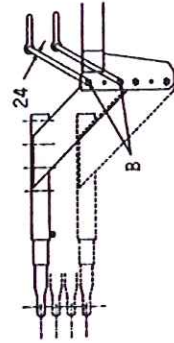


Fig. 5.

FLAIL CUTTER

Gearbox - V-belt

No 560 - 3

Pos.	Spare part no.	Description	Pieces
1a	C65 015 071	PTO shaft 80"	1
1b	C65 115 071	PTO overrunning clutch	1
2	A04 008 016	Set screw	6
3	A30 000 008	Guard fixture	6
4	126 271 000	Guard coned	2
5	A12 008 020	Allen screw	12
6	A32 000 008	Spring washer	12
7	D10 035 050	Shaft seal	2
8	A59 271 000	Bearing cover	2
9	F01 006 307	Bearing	1
10	A58 112 000	Crown wheel	1
11	A30 000 035	Snap ring	4
12	L11 010 035	Straight key	1
13	A56 252 000	Input shaft	1
14	A51 271 000	Gear housing	1
15	F01 006 207	Bearing	1
16	L18 000 009	Plast plug	2
17	A12 010 025	Allen screw	4
18	A32 000 010	Spring washer	4
19	A80 000 030	Snap ring	1
20	A53 112 000	Pinion wheel	1
21	F04 003 305	Bearing	1
22	A52 271 001	Bearing housing	1
23	F01 006 305	Bearing	1
24	L11 008 030	Straight key	1
25	A54 271 000	Drive shaft	1
26	D10 035 072	Shaft seal	1
27	A45 252 000	Gearbox complete	1
28	C61 015 028	PTO shaft	1
29	F02 005 207	Bearing	2
30	O23 370 000	Countershaft	1
31	L27 271 000	Steel bushing	30
32	L11 010 060	Straight key	1
33	F11 271 000	Flail hanger	1
34	A25 244 000	Spined shaft	1
35	A53 271 000	Belt tightener	1
36	A55 000 020	Countershaft complete	2
37	A55 070 020	Steel nut	1
38	A16 008 020	Pin	4
39	300 136 000	Hub	1
40	301 271 001	Pulley	1
41	A32 000 012	Spring washer	1
42	A04 012 025	Set screw	4
43	120 555 001	Retainer	4
44	A50 000 010	Retainer, belt guard	1
45	A30 000 010	Self-closing nut	2
46	121 555 001	Washer	1
47	400 251 001	Belt guard	1
48	A04 010 035	Flail	30
49	C01 000 064	Set screw	2
50	A50 271 000	V-belt	4
51	304 271 001	Flail complete	30
52	A01 012 100	Pulley	1
53	A30 000 012	Washer	4
54	A50 000 012	Self-closing nut	8
55	F12 000 040	Pillow block bearing	4
56	L11 010 060	Straight key	2
57	250 570 000	Rotor	1
58	261 271 000	Rotor pin	30
59	A70 005 032	Split pin	30
60	A03 011 032	Bolt	30
61	A53 000 011	Steel nut	30
62	A33 000 011	Spring washer	1
63	L08 077 095	Hose clamp	1

4.4 Adjustment of the PTO-shaft

The machine is delivered inclusive of Walterscheid wide angle PTO-shaft type WWVE 2280 with 1 3/8", 6 splines for machine and tractor (540 rpm).

- Adjustment of the length and measuring up of the PTO-shaft is carried out when the machine is fitted in the yoke of the tractor. (Fig. 9)
The overlap between the PTO-shaft's inside and outside profile pipes should be at least half the length of the profile pipes.
Before shortening the PTO-shaft the possible lengthening or shortening of the PTO-shaft at maximum turning of the tractor should be checked.
For shortening of the profile pipe and plastic protection pipe please follow the instructions from the manufacturer.

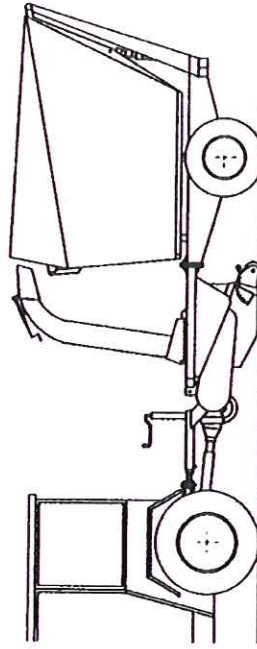


Fig. 9.

Note: (Fig. 10). Operation with "over-angled" PTO-shaft (viz. loaded operation of the PTO-shaft by turning in excess of 80° the guarantee from the manufacturer becomes null and void. For loaded operation of longer duration turnings above 25° should be avoided.
Remember to fit the retainer chain so that it is not too tight during operation irrespective of the position of the PTO-shaft.

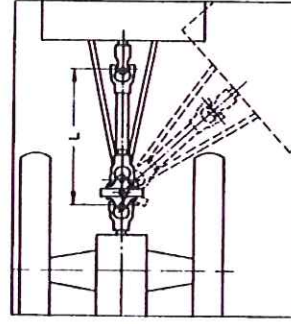


Fig. 10.

No 560 - 2

FLAIL CUTTER

Flail cutter

Pos.	Spare part no.	Description	Pieces
1	070.570.002	Chute	1
2	090.570.000	Delivery chute	1
3	A50.000.010	Self-closing nut	28
4	A04.010.035	Set screw	2
5	500.271.000	Pressure spring	1
6	153.555.000	Guide pipe	1
7	402.292.000	Cutting counter steel	2
8	152.555.000	Fork link	1
9	A01.010.040	Bolt	3
10	L13.108.032	ES bolt	1
11	A75.005.025	Tension pin	1
12	150.555.000	Hand lever	1
13	165.178.000	Eye bolt	1
14	238.555.001	Clasp	2
15	403.570.000	Air counter steel	1
16	929.555.000	Control unit complete	1
17	471.555.001	Chain	1
18	A30.000.008	Washer	9
19	A11.008.016	Plate screw	1
20	A50.000.008	Self-closing nut	12
21	123.555.001	Foot guard	1
22	A04.008.020	Set screw	1
23	A01.012.060	Bolt	1
24	A30.000.012	Washer	8
25	220.555.000	Distance pipe	1
26	A50.000.012	Self-closing nut	3
27	126.555.001	Guard	1
28	A10.008.020	Carriage bolt	2
29			
30	A01.016.070	Bolt	1
31	A50.000.016	Self-closing nut	2
32	A70.006.036	Split pin	1
33	A04.012.030	Set screw	2
34	A30.000.010	Washer	16
35	A04.016.050	Set screw	1
36	002.570.000	Rotor housing	1
37	248.570.000	Pawl for roller	1
38	A75.006.018	Tension pin	1
39	L04.040.010	Plastic ball	2
40	135.555.002	Air guard	2
41	A09.010.020	Carriage bolt	23
42	A01.008.050	Bolt	5
43	020.570.000	Roller console	1
44	A10.008.020	Carriage bolt	6
45	A30.000.020	Washer	12
46	405.570.000	Scraping steel	1
47	018.570.000	Roller	1
48	A30.000.016	Washer	3
49	024.570.001	Front beam	1
50	178.292.000	Bar	1
51	A70.006.036	Split pin	2
52			
53	130.242.000	Stone guard	10
54	F14.000.052	Flanged bearing housing	2
54	F15.000.205	Bearing	2

5 Check of functions and test run

5.1 Check of the hydraulic functions

1. Start the tractor and let it run on idle.
2. Operate the control valve for lifting the flail cutter and the high-tip trailer. The flail cutter will lift to highest position (transport position) where after the built-in changeover valve automatically leads the oil flow to the telescope cylinders and lifts the high-tip trailer. When lowering, the trailer will in the bottom position activate the changeover valve before the flail cutter is lowered. Make sure that the flail cutter is lifted fully before the trailer starts tipping. If not, the delivery chute of the cutter will be damaged.

5.2 Check of flail cutter

1. The power transmission (PTO-shaft) of the tractor is set at 540 rpm.
2. Adjust the tractor's speed of rotation to 500-1000 rpm. When engaging the PTO-shaft the revolution speed of the tractor is selected in regard to the tractor having either mechanical or electric-hydraulic clutch. For electric-hydraulic clutches it must be taken into consideration that the revolution speed is as low as possible to avoid damaging the transmission of the machine.
3. The PTO-shaft of the tractor is engaged.
4. Check, that the flail cutter rotates free of vibrations. Possible vibrations may be due to one or more of the flails not being able to swing freely. A remedy is often to uncouple the PTO-shaft so the rotor rpm will fall. Just before the rotor are completely stopped you will hear the flails are "fall out". Exactly at that moment the PTO-shaft will be engaged again.

THE MACHINE IS NOW READY FOR OPERATION

- The only thing missing is the adjustment of the cutting height and the delivery chute, which have to be adjusted for the task to be performed. See ADVISE AND DIRECTIONS FOR OPERATION.

No 560 - 1

FLAIL CUTTER System frame

Pos.	Spare part no.	Description	Pieces
1	001.560.000	Chassis	1
2	980.555.001	Lifting cylinder complete	1
3	600.555.001	Cylinder pipe	1
4	D02.049.057	O-ring	2
5	601.555.001	Piston rod	1
6	A01.010.040	Bolt	3
7	A50.000.010	Self-closing nut	5
8	201.555.000	Distance pipe	1
9	615.555.001	Stuffing box	1
10	D02.025.050	O-ring	2
11	D01.025.035	Scraper ring	1
12	125.555.001	Guard, right	1
13	A01.016.055	Bolt	4
14	A48.006.012	Copper washer	1
15	A04.006.010	Set screw	1
16	485.555.001	Wire cable	1
17	960.555.001	Jack castor wheel	1
18	A50.000.012	Self-closing nut	1
19	124.555.001	Guard, left	1
20	A11.008.016	Plate screw	8
21	A01.016.110	Bolt	1
22	A01.008.040	Bolt	1
23	500.111.000	Pressure spring	1
24	043.555.000	Holder for PTO	1
25	042.570.000	Hose clamp	1
26	A50.000.008	Self-closing nut	1
27	363.560.000	Draweye	1
28	A01.012.100	Bolt	1
29	360.560.001	Drawbar	1
30	B22.000.401	Female coupler	2
31	610.570.000	Hydraulic pipe	1
32	B42.000.020	Packing ring	7
33	L07.000.016	Pipe clamp	3
34	A11.006.016	Plate screw	3
35	650.555.001	Hydraulic hose	1
36	B10.015.012	Nipple, fitting	1
37	B20.505.001	Ball valve	1
38	218.555.000	Wire roller	1
39	B08.000.008	Hexagon Nipple	1
40	B21.000.402	Male coupler	2
41	B05.000.051	Dust cap	1
42	C71.000.001	Safety shield	1
43	L08.077.095	Hose clamp	1
44	A50.000.016	Self-closing nut	9
45	165.555.001	Clamp	1
46	A30.000.012	Washer	1
47	231.555.001	Splice	1
48	L01.000.016	Plasstud	2
49	A01.010.080	Bolt	1
50	A01.010.100	Bolt	1
51	A01.016.055	Set screw	4
52	221.555.000	Distance pipe	1
53	651.555.000	Hydraulic hose	1
54	B15.000.012	L-fittings	1
55	651.500.000	Hydraulic hose	1

7 Operation settings

When the machine is mounted and adapted to the tractor, normally only the following adjustments have to be made during operation.

7.1 Cutting height

The vertical distance between the roller and the lowest point of the flails determines the cutting height for the machine, during rotation. The cutting height which is adjusted on the left hand side of the flail cutter may be adjusted in 11 steps, from 0 to 125 mm above ground (roller).

Setting of cutting height (Fig. 11 and 11A)

Is made as follows:

1. With the tractor running idle the flail cutter is lifted. Stop the tractor again.
2. Grid the handle G with your left hand and the grid H with your right hand (Fig. 11).
3. Lift G and pull outward at the same time as H is kept in position.
4. The roller may now be lifted (low position) or lowered (high position) to the desired cutting height.
5. Push the handle G inward and downward.
6. The roller is now fixed in the new position.

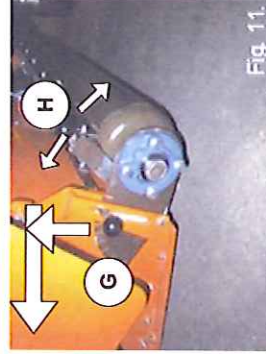


Fig. 11.



Fig. 11a.

7.2 Delivery chute

The delivery chute is set by the screw handle on the cutter's chute (Fig. 12).

The setting of the delivery chute is determined partly by the cutting height and partly whether the machine is operating on level or hilly ground, see Fig. 14 to 19.

The delivery chute is normally set for the grass spray to hit the upper third of the rear plate of the trailer.

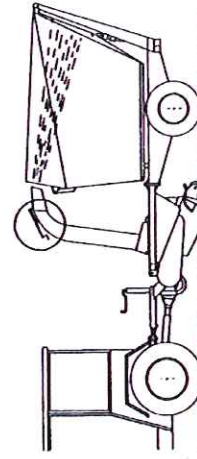


Fig. 12.

High-tip Trailer Cylinder

Pos.	Spare part no.	Description	Pieces
1	600.505.002	Outer Cylinderpipe	1
2	601.505.002	Intermed. Cylinderpipe	1
3	602.505.002	Inner cylinderpipe	1
4	603.505.002	Piston rod	1
5	624.505.002	Stop gauge	1
6	614.505.002	Stuffing box	1
7	615.505.002	Stuffing box	1
8	616.525.000	Stuffing box	1
9	A13.010.065	Allen screw	1
10	A32.000.010	Washer	1
11	D22.034.001	Slide ring	1
12	D22.054.001	Slide ring	1
13	D22.074.001	Slide ring	1
14	D01.030.038	Scraper ring	1
15	D21.030.001	Slide ring	1
16	D31.030.040	U-manchet 160 bar	1
17	D32.030.040	U-manchet 400 bar	1
18	D02.035.030	O-ring	1
19	D01.048.056	Scraper ring	1
20	D21.048.001	Slide ring	1
21	D31.048.058	U-manchet 160 bar	1
22	D32.048.058	U-manchet 400 bar	1
23	D02.059.030	O-ring	1
24	D01.068.076	Scraper ring	1
25	D21.068.001	Slide ring	1
26	D31.068.078	U-manchet 160 bar	1
27	D32.068.078	U-manchet 400 bar	1
28	D02.079.030	O-ring	1
29	F18.000.025	Joint link	1
30	982.505.002	Stuffing box complete	1
31	983.505.002	Stuffing box complete	1
32	984.505.002	Stuffing box complete	1

8 Advise and directions for operation

Cutting height and operation speed

When operating the machine only the cutting height and operating speed has to be adjusted.

When cutting wet grass the travelling speed should be reduced whereas the PTO-speed is maintained.

In the following some general directions are given:

8.1 Cutting of high grass

Due to the large volume of grass as well as possible stones and obstacles, which may be difficult to spot, a cutting height above 60 mm is recommended (Fig. 14).

This will also allow the travelling speed to be increased. With a subsequent

cutting in a lower position you will be able to clean the area for unwanted weeds

in the next season by absorbing the shed weed seeds with the machine. By these treatment do not forget to remove possible stones etc. from the area before going in a lower position.

Depending of the conditions the travelling speed is selected between 1,5 – 2,5 km/h.



Fig. 14.

8.2 Cutting of medium-high grass

For cutting of medium-high grass e.g. areas being cut approx. 6 times a year, a cutting height of less than 60 mm is normally chosen. (Fig. 15).

Depending on the conditions a travelling speed between 5 – 7 km/h.

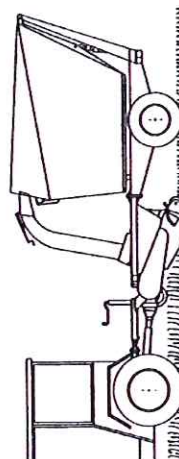


Fig. 15.

8.3 Cutting of low grass and collection of leaves

For leaf collection and cutting of lawn grass and soft types of grass a cutting height of less than 40 mm is chosen as it is to be expected that the soft grass will bend a little during cutting. (Fig. 15).

Subject to conditions the travelling speed is chosen between 5 – 10 km/h.

HIGH-TIP TRAILER Chassis

Pos.	Spare part no.	Description	Pieces
22	175.505.000	Cotter bolt	2
23	A75.008.035	Tension pin	2
24	001.505.001	Chassis	1
25	988.505.001	Hose/safety valve	2
26	651.212.001	Hydraulic hose	2
27	990.505.001	Telescope cylinder complete	2
28	610.505.000	Hydraulic pipe	2
29	A31.000.024	Washer	4
30	A70.006.036	Split pin	4
31	A04.006.035	Set screw	4
32	L07.000.013	Pipe clamp	4
33	A50.000.006	Self-closing nut	4
34	B33.012.015	T-fittings/Nipple	1
35	650.505.000	Hydraulic hose	1
36	152.505.000	Brake hand lever	1
37	651.505.000	Bowden cable, brake	1
38	485.505.000	Brake cable	1
39	L27.000.008	Thimble	1
40	L26.000.008	Wirelock	3
41	530.505.000	Wheel spring	2
42	177.500.000	Cotter bolt	2
46	A01.012.045	Bolt	4
47	A50.000.012	Self-closing nut	4
48	A30.000.012	Washer	8
48a	G01.505.001	Wheel complete +60	2
48b	G01.505.003	Wheel complete +0	2
50	987.505.500	Axle - complete	1
51	967.505.000	Brake shaft - complete	1
52	040.505.000	Container/guide	2
53	A11.008.016	Plate screw	4
54	B42.000.020	Packing ring	1

8.7 Hilly ground

When travelling on very hilly ground (Fig. 18 and 19) the cutting height will have to be set accordingly.

The machine has, due to the roller a certain levelling effect.

This may either be utilized -, e.g. where a gradual levelling of the ground is wanted, for removal of molehills etc. by running the machine with low cutting height irrespective of smaller obstacles on the ground. This will have to be done carefully only on light or sandy soils where the soil conditions are known in as much as stone, stumps etc. may cause substantial damage to the machine and the flails: - or prevented by lifting the flail cutters over and above the obstacles - possibly by setting the cutting height higher.

8.8 Unloading

The trailer may only be emptied with the vehicle in parked position (never whilst travelling).

Unloading must take place on level ground.

When unloading on ground sloping backwards the trailer may not lower again. In such case travel carefully to level ground and lower the trailer.

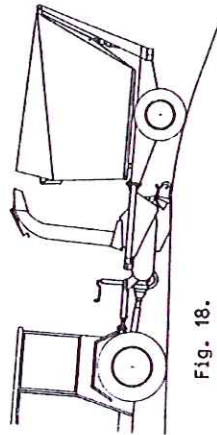


Fig. 18.

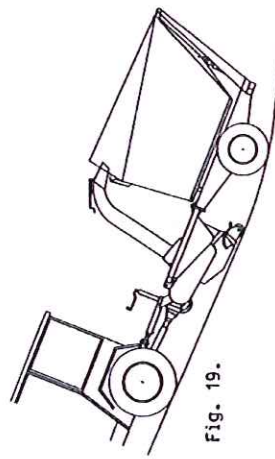


Fig. 19.

HIGH-TIP TRAILER

Container

Pos.	Spare part no.	Description	Pieces
1	562.505.002	Top gate	1
2	563.505.001	Front plate - right	1
3	564.505.001	Front plate - left	1
4	A50.000.006	Self-closing nut	11
5	A31.000.006	Washer	22
6	A04.006.016	Set screw	11
7	A04.012.035	Set screw	4
8	A50.000.012	Self-closing nut	8
9	A50.000.010	Self-closing nut	1
10	500.271.000	Pressure spring	1
11	238.505.000	Safety catch, back door	1
12	A01.010.040	Bolt	1
13	550.505.001	Container	1
14	552.505.000	Back door	1
15	A30.000.016	Washer	2
16	500.505.000	Pressure spring	1
17	A75.006.028	Tension pin	2
18	248.505.000	Locking Pawl, back door	2
19	A75.008.035	Tension pin	2
20	177.505.000	Cotter bolt	2
21			
22	A30.000.012	Washer	10
23	A04.012.040	Set screw	4
24	039.505.000	Hinge flange	2

10 Replacement of tools

GreenLine Combi-trailer has been developed with a view to greatest possible flexibility. The high-tip trailer may be used separately as hip-tip trailer – or together with various tolls.

The tools, flail cutter, wood chipper, rotary sweeper, golf course equipment etc. may be used separately without the high-tip trailer when fitted with gauge wheel (extra).

10.1 Replacement of tools

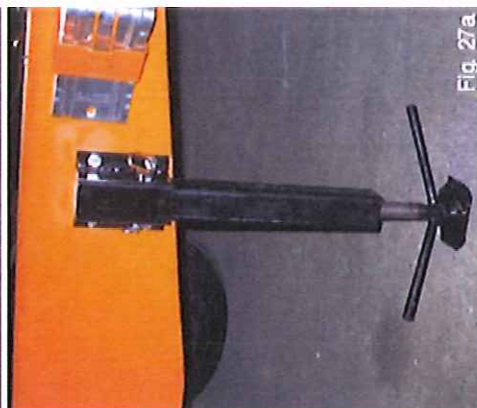
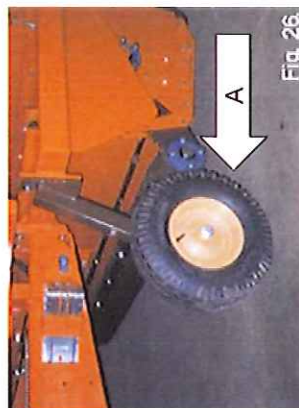
Before changing the combination the high-tip trailer must be completely empty.

Replacement of tools shall always take place on level ground (slabs, asphalt or similar).

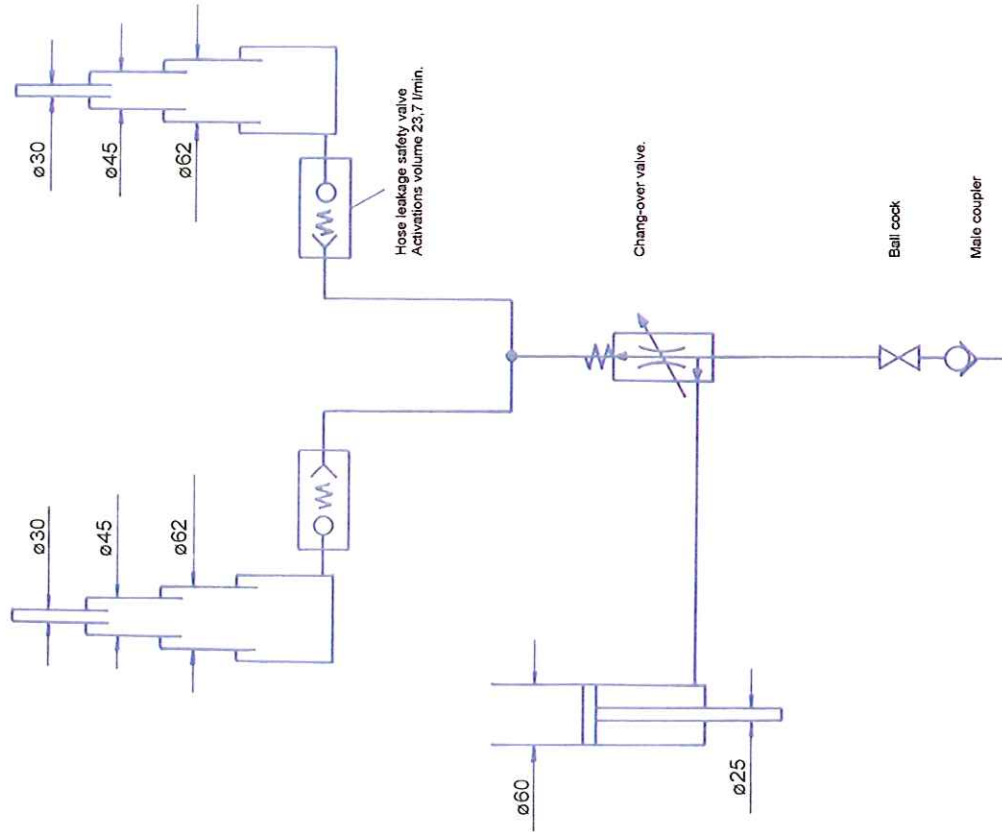
Remember, before dismounting that the flail cutter is lifted to transport position, with the safety chain for transport mounted and that the ball cock is closed.

Warning! The high-tip trailer will tilt forward or backward, by dismounting the tools. Therefore it is very important to follow this procedure by replacement of tools:

1. Lower the gauge wheel
2. Fit the 2 drive wheels A_1 on the frame of the flail cutter (Fig. 26)
Then lower the chassis frame by means of the gauge wheel until the drive wheel A comes to rest on the ground.
3. Mount the rear prop stand (Fig. 27) in vertical position and wind down until it rests on the ground.
4. Mount the front prop stand (Fig. 27a) in vertical position and wind down until it rests on the ground.
5. The 4 nuts B are loosened (Fig. 28). By means respectively of the gauge wheel and the rear prop stand the bolts B are relieved to allow the tool, when the bolts have been removed, to be moved approx. 10 cm forward.
6. Thereafter the roller is supported by a wooden chock or similar to allow for the tilt cylinder



16 Hydraulic diagram



GreenLine Combi-trailer SCH230 GM151

11 Maintenance, tightening-up, lubrication and tyre pressure

11.1 Tightening-up

All bolts and nuts are to be tightened after 4-5 hours use and thereafter at regular intervals.

11.2 V-belts

Are to be checked/adjusted after approx. 1 hours use and thereafter at regular intervals.

11.3 Lubrication

The angle gear is delivered with 0,5 litre SAE 140 gear oil (Fig. 29)
The oil level shall be minimum 40 mm.
Check the oil level at regular intervals.



Fig. 29.

All bearings (flail rotor, roller and wheel bearings) are greased when delivered from the factory.
Avoid excessive greasing as this may damage the bearing packing.

11.4 Power transmission shafts (PTO-shafts)

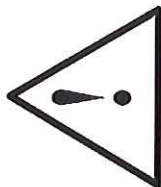
The flail cutter is driven by a PTO-shaft from the tractor to the angle gearbox and a PTO-shaft from the angle gear to the V-belt drive.

Both shafts are to be greased before being used and thereafter at intervals of 8 hours, see attached PTO-instruction.

11.5 Tyre pressure

High-tip trailer	3,75 bar
Type of tyre 10.075-15.3	
Drive wheel	
Type of tyre 5.00x8"	6,2 bar

14 Safety precautions



General

- The rotor body is not to be opened before the rotor comes to a complete stop.
- Check before opening the rotor body that the drive and power transmission shaft has stopped completely.
- Repair and maintenance is only to be made when the machine is completely stopped.
- After service and repair work the machine is only to be used when all bolts are fixed and all safety precautions are correctly taken.
- The prescribed maximum rotations for the power transmission shaft are not to be exceeded.

Safety precautions for operation and transport

- It is the responsibility of the operator that no human beings or animals come close to the working machine.
- The construction of a rotating flail moulder may cause dust and pebbles to be thrown out.

IN CASE OF DANGER!

STOP THE TRACTOR ENGINE IMMEDIATELY

- Staying under the lifted trailer may only take place if the trailer is support e.g. by means of a beam.
- Riding in the trailer during travelling is prohibited.
- Beware of sliding on the open loading ramp of the machine.
- When transporting the machine the flail cutter must always be lifted completely by means of the hydraulic cylinder and the safety chain for transport must be mounted.
- Travelling on public road is subject to traffic regulations, which must be complied with.

GreenLine Combi-trailer SCH230 GM151

13 Adjusting the high-tip trailer

The high-tip trailer has at the front of the chassis frame a changeover valve (Fig. 32) which through it's connection to the single acting hydraulic take-off from the tractor automatically forces the oil flow to firstly activate the cylinder of the tool and then activate the high-tip trailer's telescope cylinders as well as to perform the two functions in reverse order when the system is relieved (lowered).

13.1 Adjusting the changeover valve

Prior to adjustment of the changeover valve the trailer box must be lowered completely to the chassis frame O. (Fig. 32).

1. Loosen counter nut of the adjusting screw P.
2. Adjusting screw P is tightened or loosened until the distance R is 1-2 mm
3. Tighten the counter nut again.

Fig. 32.

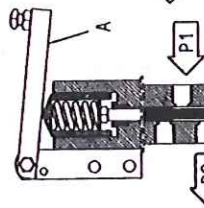


Fig. 33.

13.2 Function

Activation of the tractor's hydraulic handle will press the oil to port P1 and out through port P2 to the cylinder of the tool. (Fig. 33).

When the tool cylinder is in top position the pressure in the valve will increase and force the valve piston into top position, whereby port P2 is closed and port P3 for the high-tip trailers telescope cylinders is opened (Fig. 34) and the trailer box is lifted.

When the trailer box is free of the pressure arm A the valve piston is in locked position P1-P3 irrespective that the system remains pressure less when the trailer box is lowered.

Only when the trailer box activates the pressure arm A, the valve piston is forced into bottom position P2-P1 whereby the tool cylinder is released to initial position (working position).

Fig. 34.

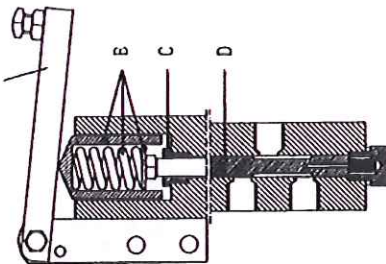


Fig. 35.

13.3 Exchange of O-ring

In case of a leakage in the valve the O-ring is changed as follows:

1. Dismount pressure arm A as well as ratchet, spring and disk, pos B.
2. Unscrew nipple C and pull out the piston with the O-ring D.
3. Exchange the O-ring with a new one.
4. Mount the valve in reverse order. Avoid damaging the O-ring when the piston is pushed into position.