

ASSEMBLY, USE AND MAINTENANCE SPARE PARTS LIST



DM 6-7-8 S

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SECTION 1 SPARE PARTS LIST



1

		Т	ABLE NO. 910.148	
	_		DM-6	
ITEM	Q.TY	PART/NO	DESCRIPTION	NOTE
1	1	100.882	GEAR BOX CASING	
2	2	620.129	BEARING	
3	4	100.883	WASHER	
4	1	620.141	ТАВ	
5	1	100.772	BEVEL GEAR	
6	8	620.130	SCREW	
7	1	100.770	COVER	
8	1	620.156	OIL SEAL	
9	1	100.884	BUSH	
10	1	100.771	DRIVING SHAFT	
11	1	620.171	RING OR	
12	1	100.774	PLUG	
13	1	620.172	BEARING	
14	2	620.148	SNAP RING	
15	36	620.244	SCREW	
16	1	100.773	SPROCKET	
17	1	620.161	SEAL	
18	1	620.145	RING	
19	2	610.232	BUSH	
20	1	620.148	SNAP RING	
21	1	100.885	BEARING BUSH	
22	1	620.173	BEARING	
23	1	100.779	GEAR	
24	1	620.146	SNAP RING	
25	6	100.783	SCREW	
26	4	100.792	DISTANCE	
27	102	620.136	NUT	
28	4	620.131	SCREW	
29	4	620.174	NUT	
31	2	100.801	GEAR	
32	12	620.126	BEARING	
33	12	100.798	NUT	
34	24	100.804	SNAP RING	
35	24	100.787	SCREW	
36	12	100.797	DISTANCE PIN	
37	12	100.786	SCREW	
38	12	100.785	DISTANCE	
39	1	100.887	SUPPORT (UPPER+LOWER)	
40	62	100.782	SCREW	
41	3	620.175	WASHER	
42	3	100.789	PLUG	
43	10	100.802	GEAR	
44	6	620.159	SEAL	
45	6	100.799	DISC SUPPORT	
46	2	100,793	DISTANCE	

	TABLE NO. 910.148					
			DM-6			
ITEM	Q.TY	PART/NO	DESCRIPTION	NOTE		
47	6	100.795	WASHER			
48	6	620.165	RING OR			
49	6	100.803	BUSH			
50	6	100.800	GEAR			
51	6	620.176	BEARING			
52	5	100.995	SUPPORT			
53	4	110.463	DISC			
54	6	620.139	NUT			
55	4	100.996	COVER			
56	6	620.150	WASHER			
57	6	620.128	BEARING			
58	1	110.127	SUPPORT DEFLEKTOR			
59	2	620.143	SPRING PIN			
60	1	100.890	HOOK			
61	4	100.790	SCREW			
62	1	110.001	SUPPORT			
63	2	100.791	PLUG			
64	2	110.464	DISC CONVEY			
65	6	100.367	CLOCK-WISE KNIFE			
66	6	100.366	CONTERCLOCK-WISE KNIFE			
75	6	100.993	SUPPORT			
251	1	620.164	RING OR			
252	1	620.152	PLUG			
253	1	620.245	SCREW			
254	1	110.380	REAR REINFORCEMENT			
255	3	620.243	SCREW			
256	8	620.137	NUT			
257	5	620.133	SCREW			
258	1	620.134	SCREW			
259	1	100.986	SUPPORT			
260	12	100.796	SCREW			
261	12	100.821	WASHER			
262	12	100.794	NUT			



TABLE NO. 910.149							
	DM-7						
ITEM	Q.TY	PART/NO	DESCRIPTION	NOTE			
1	1	100.992	GEAR BOX CASING				
2	2	620,129	BEARING				
3	4	100.883	WASHER				
4	1	620.141	ТАВ				
5	1	100.772	BEVEL GEAR				
6	8	620.130	SCREW				
7	1	100.770	COVER				
8	1	620.156	OIL SEAL				
9	1	100.884	BUSH				
10	1	100.771	DRIVING SHAFT				
11	1	620.171	RING OR				
12	1	100.774	PLUG				
13	1	620.172	BEARING				
14	2	620.148	SNAP RING				
15	42	620.244	SCREW				
16	1	100.773	SPROCKET				
17	1	620.161	SEAL				
18	1	620.145	RING				
19	2	610.232	BUSH				
20	1	620.148	SNAP RING				
21	1	100.885	BEARING BUSH				
22	1	620.173	BEARING				
23	1	100.779	GEAR				
24	1	620.146	SNAP RING				
25	7	100.783	SCREW				
26	4	100.792	SCREW				
27	118	620.136	NUT				
28	4	620.131	SCREW				
29	4	620.174	NUT				
31	5	100.801	GEAR				
32	15	620.126	BEARING				
33	15	100.798	NUT				
34	30	100.804	SNAP RING				
35	31	100.787	SCREW				
36	15	100.797	DISTANCE PIN				
37	15	100.786	SCREW				
38	15	100.785	DISTANCE				
39	1	100.886	SUPPORT (UPPER+LOWER)				
40	71	100.782	SCREW				
41	3	620.175	WASHER				
42	3	100.789	PLUG				
43	10	100.802	GEAR				
44	7	620.159	SEAL				
45	7	100.799	DISC SUPPORT				
46	6	100.793	DISTANCE				

TABLE NO. 910.149						
	DM-7					
ITEM	Q.TY	PART/NO	DESCRIPTION	NOTE		
47	7	100.795	WASHER			
48	7	620.165	RING OR			
49	7	100.803	BUSH			
50	7	100.800	GEAR			
51	7	620.176	BEARING			
52	5	100.995	SUPPORT			
53	5	110.463	DISC			
54	7	620.139	NUT			
55	5	100.996	COVER			
56	7	620.150	WASHER			
57	7	620.128	BEARING			
58	1	110.127	SUPPORT DEFLEKTOR			
59	2	620.143	SPRING PIN			
60	1	100.890	HOOK			
61	7	100.790	SCREW			
62	2	110.001	SUPPORT			
63	2	100.791	PLUG			
64	2	110.464	DISC CONVEY			
65	8	100.367	CLOCK-WISE KNIFE			
66	6	100.366	CONTERCLOCK-WISE KNIFE			
75	7	100.993	SUPPORT			
251	1	620.164	RING OR			
252	1	620.152	PLUG			
253	1	620.245	SCREW			
254	1	110.379	REAR REINFORCEMENT			
255	3	620.243	SCREW			
256	8	620.137	NUT			
257	5	620.133	SCREW			
258	2	620.134	SCREW			
259	1	100.986	SUPPORT			
260	14	100.796	SCREW			
261	14	100.821	WASHER			
262	14	100.794	NUT			





	DM8 S TABLE NO. 910.147				
ltem	Part No.	Q.tè			
Pos.	Code	Q.ty	DESCRIPTION	NOTE	
1	100.774	1	PLUG		
2	610.232	2	BUSHING		
3	620.129	2	BEARING		
4	100.883	4	WASHER		
5	620.141	1	ТАВ		
6	100.772	1	BEVEL GEAR		
7	100.992	1	GEAR BOX CASING		
8	100.770	1	COVER		
9	620.130	8	SCREW		
10	620.156	1	OIL SEAL		
11	100.884	1	BUSH		
12	100.771	1	DRIVING SHAFT		
13	620.171	1	RING OR		
14	620.172	1	BEARING		
15	620.161	1	SEAL		
16	100.366	8	COUNTERCLOCK-WISE KNIFE		
17	100.773	1	SPROCKET		
18	620.145	1	RING		
19	620.148	2	SNAP RING		
20	620.164	1	O-RING GASKET		
21	100.993	8	DISC SUPPORT		
22	620.143	2	SPRING PIN		
23	100.367	8	CLOCK-WISE KNIFE		
24	110.463	6	CUTTING DISC		
26	100.995	7	SLIDING SUPPORT		
27	100.802	14	GEAR		
28	100.996	1	DISC COVER		
29	100.790	1	SCREW		
30	620.243	3	SCREW		
31	620.137	8	NUT		
32	100.779	1	GEAR		
33	620.146	1	SNAP RING		
34	620.173	1	BEARING		
35	100.885	1	BEARING BUSH		
36	620.148	1	SNAP RING		
37	620.133	5	SCREW		
38	620.174	4	NUT		
39	620.131	4	SCREW		
40	620.136	128	NUT		
41	100.997	1	REAR REINFORCEMENT		
42	110.418	8	BEARING DISC SUPPORT		
43	100.792	6	SPACER		
44	100.998	1	SUPPORT (UPPER+LOWER)		
45	100.782	97	SCREW		
46	100 804	16	SNAP RING		

	DM8 S TABLE NO. 910.147				
ltem	Part No.	Q.ty			
Pos.	Code	Q.tè	DESCRIPTION	NOTE	
47	620.126	16	BEARING		
48	100.798	16	NUT		
49	100.801	2	GEAR		
50	100.787	31	SCREW		
51	100.797	16	DISTANCE PIN		
52	100.786	16	SCREW		
53	100.785	16	DISTANCE		
54	100.789	2	PLUG		
55	620.175	2	WASHER		
56	620.139	8	NUT		
57	620.150	8	WASHER		
58	620.128	8	BEARING		
59	100.783	8	SCREW		
60	100.795	8	WASHER		
61	100.803	8	BUSH		
62	620.176	8	BEARING		
63	100.800	8	GEAR		
64	620.165	8	RING OR		
65	620.159	8	SEAL		
66	100.890	1	HOOK		
67	100.793	2	DISTANCE		
68	620.244	48	SCREW		
70	110.001	1	SLIDING SUPPORT		
71	110.127	1	DISC SUPPORT		
75	100.791	2	PLUG		
76	110.464	2	DISC + CONVEY		
77	500.056	1	PLUG		
78	620.245	1	SCREW		
79	630.576	8	RING OR		
251	620.152	1	PLUG		
252	100.986	1	SLIDING SUPPORT		
253	620.134	1	SCREW		
254	100.821	16	WASHER		
255	100.796	16	SCREW		
256	100.794	16	NUT		





	TABLE NO. 910.150				
ltem	Part No.				
Pos.	Code	DESCRIPTION	NOTE		
1	600.306	PLUG			
2	110.429	LEVER			
3	110.486	PIN			
4	600.551	SCREW			
5	110.493	WASHER			
6	110.482	SPACER			
7	620.480	SNAP RING			
8	630.931	BALL JOINT M8			
9	600.061	SCREW			
10	110.487	WASHER			
11	110.476	PROTECTION			
12	600.229	WASHER			
13	600.037	NUT			
14	620.475	SCREW			
15	100.352	SHIM			
16	110.477	TIE ROD			
17	630.967	SCREW			
18	600.018	SPRING WASHER			
19	620.250	WASHER D.11			
20	600.024	WASHER			
21	600.206	SCREW M10x120			
22	610.160	ROPE			
23	110.021	SCREW			
24	600.006	SCREW			
25	600.029	NUT			
26	110.423	WASHER			
27	100.313	PLUG			
28	110.487	WASHER			
29	110.424	НООК			
30	630.100	SCREW			
31	610.718	NUT			
32	630.969	ТАВ			
33	610.505	ТАВ			
34	620.442	PDF CAP			
35	100.224	PULLEY			
36	600.540	SPRING PIN			
37	110.478	INPUT SHAFT			
38	100.958	PIN			
39	600.135	WASHER			
40	600.333	SNAP RING			

TABLE NO. 910.150					
ltem	Part No.				
Pos.	Code	DESCRIPTION	NOTE		
41	620.248	BEARING			
42	100.969	SPACER			
43	620.249	BELT TENSION SCREW			
44	100.970	WASHER			
45	100.968	TIGHTENER WASHER			
46	600.533	RETAINING RING			
47	100.758	PIN			
48	600.702	SCREW			
49	600.076	NUT			
50	640.007	SPRING PIN			
51	620.251	BELT			
52	110.022	SPACER			
53	110.016	BELT COVER SUPPORT			
54	610.185	WASHER			
55	620.278	SCREW (M6x16 5739-ZN)			
56	110.426	PIN			
57	220,159	PIN			
58	600.514	FLAT WASHER			
59	630.003	SCREW			
60	610.232	BUSH			
61	100.225	PULLEY			
62	100.967	PTO SPRING			
63	610.510	SCREW			
64	110.420	FRAME			
65	100.965	TIGHTENER ROD			
66	110.425	SPRING			
67	110.421	GEARBOX SUPPORT			
68	110.422	GEARBOX SUPPORT			
69	110,479	PTO SUPPORT			
70	100 964	BELT REAR COVER			
71	110 427	BELT FRONT COVER			
72	110 488	COVER			
73	110 015	SHIM			
74	600 124	GREASE NIPPLE			
75	620 357	HANDLE			
76	630.003	SCREW M6 X 20			
77	600 135	FLAT WASHER Ø6.6 X 18			
78	600.472				
79	230 457	CANISTER			
13	200.407				



	TABLE NO. 910.151				
ltem	Part No.				
Pos.	Code	DESCRIPTION	NOTE		
1	600.040	FITTING D 3/8			
2	610.118	SHACKLES			
3	110.475	SPACER			
4	110.459	PIN			
5	100.979	SPRING PIN			
6	630.005	SCREW			
7*		O RING			
8*		O RING			
9	600.273	QUICK COUPLING			
10*		GASKET			
11	110,447	PIN			
12	110.495	PISTON			
13*		GASKET			
14*		GASKET			
15	110 470				
16	631 383	NUT			
17	600 702	SCRFW			
18	600 182	SPRING PIN			
19	110 450	NYLON PROTECTION			
20	600 112	SPI IT PIN			
20	110 449	PIN			
22	600 400	SCREW			
23	110 445	PIN			
23	100 954	PIN			
25	110.001	BUSHING			
26	620 247	SPRING PIN			
27	600.027	SPRING PIN			
28	600.027	PIN			
20	110 398	BUSHING			
30	110.000	BUSHING			
31	110.404				
32	600 336				
22	110 455				
34	100.455	DIN			
35	600 124				
36	600.124				
37	600.538				
20	110 454				
30	100.404	RUSHING			
39	110.955				
40	600 115				
41	110 402				
42	110.403				
43	620.049				
44	030.048				
45	100.253				
	000.050				
*	630.950	UYLINDER GASKET SET			



	TABLE NO. 910.151				
Item	Part No.				
Pos.	Code	DESCRIPTION	NOTE		
46	110.457	ROD PLATE			
47	600.539	SPRING PIN			
48	100.977	SPRING SUPPORT			
49	100.978	SPRING HEAD			
50	100.976	SPACER			
51	620.252	SPRING PIN			
52	600.200	NUT			
53	100.980	SPRING HEAD			
54	100.981	SPRING SUPPORT			
55	110.009	RUBBER SPRING			
56	600.075	NUT			
57	110.010	WASHER			
58	100.168	HOOK			
59	610.144	VALVE			
60	620.452	WASHER			
61	600.416	UNION CONN. 3/8-1/2			
62	600.441	SCREW			
63	600.845	WASHER			
64	600.018	SPRING WASHER			
65	200.992	CLIP			
66	600.042	WASHER			
67	110.493	WASHER			
68	110.135	WASHER			
69	110.494	WASHER			
70	110.485	SPRING			
71	630.949	HOSE			
72	110.003	SAFETY ROD			
73	110.469	CYLINDER ROD			
74	110.367	CHAIN			
75	110,468	CYLINDER BARREL			
76	110.448	CYLINDER STOP			
77	220.123	SPRING			
78	100.956	PIVOTING SUPPORT			
79	110.443	3 POINT HITCH			
80	110.444	HEAD SUPPORT			
81	600.017	PIN			
82	630,968	RUBBER			
83	110.451	TIE ROD			
84	110.452	TIE ROD			
85	110.456	LEVER			
86	110.446	CYLINDER. COMPLETE			
		1			





		TABLE NO. 910.152	
ltem	Part No.		
Pos.	Code	DESCRIPTION	NOTE
1	110 493	WASHER	
2	200 279	SPRING	
3	110 465		
5	110.403		DM6
4	110.442		DMZ
4	110.441		
-	110.012	COVER CANVAS	DIVIB
5	600.077		
6	600.826	SCREW	
7	600.029	NUI	
8	600.322	WASHER	
9	610.185	WASHER	
12	600.076	NUT	
13	600.018	SPRING WASHER	DM6
	600.086	SPRING WASHER	DM7 - DM8
14	610.500	SCREW	
15	600.006	SCREW	
16	630 839	SCREW	DM6
	620.322	ISCREW	DM7 - DM8
17	200 200	PLUG	
12	600.303		
10	600.641		
19	600.641		
20	000.010		
21	600.227		
22	110.432	BUSH	
23	110.433		
24	600.539		
25	110.140	PIN	
26	600.336	WASHER	
27	600.246	WASHER	
28	110.491	HAY DEFLECTOR	
29	110.013	PLATE DEFLECTOR SUPPORT	
	110.431	FRAME	DM6
30	110.430	FRAME	DM7
	110.497	FRAME	DM8
31	100.991	PROTECTION	
	110.438	PROTECTION	DM6
32	100 989	PROTECTION	DM8
32A	120 002	PROTECTION PART RH	DM7
32B	120.002	PROTECTION PART I H	DM7
33	100 990	PROTECTION	
34	110 240	EXTERNAL PROTECTION	
<u> </u>	110.440		DM6
35	10.400		
25 ^	110.300		
30A	110.997		
35R	110.999		
36	100.987		
3/	600.027		
38	620.319		
39	110.127	LEXTERNAL SUPPORT	
40	600.702	ISCREW	
41	100.985	SUPPORT	
42	640.023	SCREW	
43	600.009	NUT	
44	600.441	SCREW	
45	600.018	WASHER	
46	600.089	WASHER	DM6
	600.188	WASHER	DM7 - DM8



CARDAN SHAFT DM 6-7 S PART NO 630.932 Z6 Tractor takeoff				
Item Part No.				
Pos.	Code	DESCRIPTION	NOTE	
01	630.382	YOKE	Z6 Tractor takeoff	
02	610.368	CROSS JOURNAL ASS.		
05	610.370	OUTER TUBE YOKE		
06	001.411	LABEL "DANGER ROTATING"		
07	001.316	LABEL "DANGER SHIELD"		
08	630.383	FLEXIBLE PIN		
12	610.372	CM. 100 CARDAN TUBE(*)		
13	610.373	CM. 100 CARDAN TUBE(*)		
16	630.384	FLEXIBLE PIN		
17	610.375	INNER TUBE YOKE		
21	630.385	FREE WHEEL		
25	630.386	CONE SHIELD BELL 05-06		
26	630.387	OUTER BEARING 05		
27	630.388	OUTER BASE CONE 05-06		
28	630.389	SCREW		
29	630.972	OUTER SAFETY TUBE		
30	630.973	INNER SAFETY TUBE		
31	630.392	NNER BASE CONE 05-06		
32	630.393	INNER BEARING 05		
40	610.068	CHAIN		
51	620.830	BALL COLLAR KITT		
52	630.394	BALL COLLAR KITT		
61	610.206	GRAESE NIPPLE		
62	630.395	OUTER CASING WITH YOKE		
63	630.396	HUIB 1 3/8"z6		
64	620.873	RATCET TOOTH		
67	620.874	RETAINING RING		
68	610.253	CIRCLIP		
93	630.974	OUTER HALF SHAFT	Z6 Tractor takeoff	
94	630.975	INNER HALF SHAFT		
97	630.976	SAFETY GUARD		



CARDAN SHAFT DM 8 S PART NO. 620.237 Z6				
ltem	Part No.			
Pos.	Code	DESCRIPTION	NOTE	
01	620.079	YOKE		
02	620.080	CROSS JOURNAL ASS.		
05	620.081	OUTER TUBE YOKE		
08	630.383	FLEXIBLE PIN		
12	620.083	CARDAN TUBE		
13	610.373	CARDAN TUBE		
16	630.384	FLEXIBLE PIN		
17	620.085	INNER TUBE YOKE		
21	630.851	FREE WHEEL		
25	630.386	CONE SHIELD BELL 05-06		
26	630.852	OUTER BEARING		
27	630.388	OUTER BASE CONE 05-06		
28	630.389	SCREW		
29	630.878	OUTER SAFETY TUBE		
30	630.879	INNER SAFETY TUBE		
31	630.392	INNER BASE CONE 05-06		
32	630.880	INNER BEARING		
40	610.068	CHAIN		
48	630.719	LABEL DANGER OUTER DRIVE TUBE		
49	630.720	EXTERNAL SHIELD LABEL		
51	610.057	COMPLETE PUSH BUTTTON		
52	630.394	BALL COLLAR KITT		
71	610.216	GRAESE NIPPLE		
72	620.270	OUTER CASING WITH YOKE		
63	630.396	HUIB 1 3/8"z6		
64	620.873	RATCET TOOTH		
67	620.874	RETAINING RING		
68	610.253	CIRCLIP		
93	620.094	OUTER HALF SHAFT		
94	630.882	INNER HALF SHAFT		
97	630.883	SAFETY GUARD		

SECTION 2 GENERAL INFORMATION

2.1 WARRANTY

The manufacturer warrants new machinery to be free from defects in material and workmanship at the time of delivery to the original purchaser if correctly set up and operated according to this Operator's Handbook.

The manufacturer undertakes to repair or replace free of charge any defective part which should be returned by the purchaser (freight prepaid) and found to be defective on inspection authorized by the manufacturer during the warranty period.

This warranty shall be valid for 12 (twelve) months from the delivery of the goods to the original purchaser.

If the customer is unable to return the defective part to the manufacturer, the manufacturer cannot be held responsible for any cost due for repair or replacement of any part of the machine. He shall only supply the part(s) required for such repair and/or replacement.

The warranty shall be considered null and void when it is evident that the machine has been improperly used or at least repaired without authorization.

The manufacturer shall not be held responsible for any obligation or agreement reached by any manufacturer employers, agents or dealers who do not comply with the above warranty. The manufacturer cannot be held responsible for the subsequent damages. This warranty replaces any other warranty, either explicit or implied, as well as any other obligation of the manufacturer.

NOTE:

ALL WARRANTY WORK OR REPAIRS MUST BE APPROVED BY THE MANUFACTURER BEFORE WORK BEGIN.

ANY WORK OR REPAIRS MADE BEFORE APPROVAL MAY NOT BE COVERED UNDER WARRANTY. PLEASE NOTIFY YOUR SALES & SERVICE DEPARTMENT OF THIS POLICY.

SECTION 3 GUIDE TO THE SIGNS AND SYMBOLS USED IN THIS MANUAL AND THEIR LOCATION ON THE MACHINE

3.1 SIGNS AND SYMBOLS

These signs and symbols give information to the operator on how to make the best use of the machine so as to prolong life, avoid damage, optimise work and, above all, to avoid injury to the operator and anyone within range of the machine

3.2 WARNING AND DANGER SIGNS

3.2.1 FIG. 3.1

Read operator's manual and ALL safety instruction



3.2.2 FIG. 3.2

Risk of possible ejection of blunt objects. Keep a safe distance from the machine.



3.2.3 FIG. 3.3

Component shielding MUST be in place when PTO is engaged.



3.2.4 FIG. 3.4

See HOW TO DISCONNECT THE MACHINE in this manual.



3.3 INDICATION SIGNS

3.3.1 FIG. 3.5

Indicates a greasing point.



3.3.2 FIG. 3.6

This indicates the oil level.



3.3.3 FIG. 3.7

Shows the direction of rotation of the power takeoff and the maximum number of revolutions.



SECTION 4 GENERAL SUMMARY OF SAFETY AND ACCIDENT -PREVENTION INSTRUCTIONS

4.1 GENERAL SUMMARY OF SAFETY AND ACCIDENT-PREVENTION INSTRUCTIONS

Read all the directions carefully before using the machine. When in doubt, seek advice from the manufacturers.

The manufacturing company declines all responsibility for non-compliance with the following safety and accident-prevention instructions.

- 1- Pay attention to the danger signs and symbols in this manual and on the machine.
- **2-** Do not touch moving parts.
- **3-** All work on the machine (including adjustments) must always be carried out with the tractor immobilized and the engine switched off.
- 4- On no account may persons or animals be carried on the machine.
- **5-** Driving the tractor with the machine connected is absolutely forbidden to persons lacking suitable experience, or who are in poor health, or who do not have a suitable driving license.
- 6- All accident-prevention measures recommended in this manual should be scrupulously observed.
- 7- Connecting the machine to the tractor creates a different weight distribution on the axles and so it is essential to ensure that the tractor-machine combination is stable in all anticipated working conditions. It is therefore necessary to have exact instructions from the tractor manufacturers. If such instructions are not available, suitable tests should be conducted in safe conditions in order to assess stability.
- 8- Once the machine is connected, it can only be controlled through a Cardan shaft complete with the required overload protection and guard secured with the appropriate small chains. Be aware of the rotational direction of the Cardan shaft.
- **9-** Before operating the tractor and machine, check that all transport and operational safety devices are complete and working.
- **10-**When driving on public roads, you should comply with the Highway Code regulations for the country concerned.
- **11-**Do not exceed the tractor axle maximum weight and the total mobile weight. Heed transport regulations.
- **12-**Before starting work, familiarize yourself with the control devices and how they work.
- **13-**Wear suitable clothes. Do not wear clothing which is loose or which could become entangled in rotating or moving parts.
- **14-**Connect the machine to a suitably powerful tractor by using an appropriate lifting unit and in accordance with instructions.
- **15-**Take maximum care when connecting and disconnecting the machine to and from the tractor.
- **16-**The machine and any road transport attachments must bear the appropriate signs and symbols and have suitable protection.
- 17-Never leave the driving seat when the tractor is running.
- **18-**It is extremely important to appreciate that road holding, steering and braking may be significantly affected with the machine attached.
- **19-**When turning corners with the machine attached, be aware of the fact that the centrifugal force will alter due to the change in the centre of gravity.

20-Before engaging the power takeoff check the preset revolution speed. Do not change speed from 540 rpm to 1000 rpm.



- **21-**Under no circumstances should anybody stand near the machine or any moving parts. It is the duty of the operator to ensure that this requirement is respected.
- **22-**Under no circumstances should anybody go between the tractor and the machine (fig. 4.1) when the engine is running and the Cardan shaft is engaged, especially without first having applied the parking brake and placed chocks against the wheels.
- **23-**Before connecting or disconnecting the machine to or from the 3-point linkage, put the lifting unit lever into the locked position.
- 24-The connection pins on the machine must match the connection sockets on the lifting unit.
- 25-During transport, secure the lateral lifting arms with the appropriate chains and tighteners.
- **26-**When the machine is raised during road transport, put the tractor's hydraulic lifter lever into the locked position.
- **27-**Only use the Cardan shaft provided by the manufacturer and, in case of replacement, substitute it with one having the same characteristics.
- **28-**Regularly check all protection on the Cardan shaft. This should always be in excellent condition and securely fixed.
- **29-**It is important to ensure that the protection on the Cardan shaft is complete.
- **30-**Connection and disconnection of the Cardan shaft must be carried out with the engine switched off.
- **31-**Pay particular attention to the correct connection and safety of the Cardan shaft and the power takeoffs on the machine and the tractor.
- **32-**Prevent the cardan shaft protection from rotating using the chains supplied.
- **33-**Before engaging the power takeoff, make sure that there are no people or animals in the vicinity and that the selected engine speed corresponds to that permitted. Never go above the maximum permitted.



- **34-**Do not engage the power takeoff when the engine is not running.
- **35-**Always disengage the power takeoff when the cardan shaft is at too wide an angle (it should never be more than 35° as shown in fig. 4.2) and when it is not in use.
- **36-**Only clean and grease the Cardan shaft when the power takeoff is disengaged, the engine is off, the parking brake is applied and the ignition key is removed.
- 37-On disconnecting the Cardan shaft, replace the protective hood on the power takeoff shaft.
- **38-**Prolonged use of the machine can cause the drive boxes to become hot. To avoid any risk of getting burnt, avoid touching these areas both during use and some time afterwards.
- **39-**Periodically check screws and nuts for tightness and grip. Tighten if necessary.
- **40**-When carrying out maintenance work or replacing the blades, raise the machine and rest on adequate supports.
- **41**-Use the quantities of grease and oil advised.
- **42-**Spare parts must meet the requirements as defined by the manufacturer. Use only original spare parts.
- **43-**Safety decals must always be clearly visible. They must be kept clean and replaced if they become too illegible (they can be ordered from the agent if necessary).
- **44-**The instruction booklet must be available for the lifetime of the machine.

SECTION 5 PRODUCT IDENTIFICATION

5.1 TRACTOR REQUIREMENTS

Power takeoff speed (PTO)	revs/min	540	
Max hydraulic pressure	bar	160	
Minimum power required	(see 5.2)		
Simple distributor	n°	1	

5.2 MACHINE TECHNICAL DATA

Type of machine		DM/6 S	DM/7 S	DM/8 S
Number of disks	n°	6	7	8
Number of knives per disk	n°	2	2	2
Working width	m (inch)	2.45 (96)	2.85 (112)	3.23 (127)
Gear ratio (PTO-disks)		2,73	2,73	2,73
Peripheral knife speed (PTO 540 revs/min)	m/s (ft/s)	81 (266)	81 (266)	81 (266)
Minimum power required	kW (HP)	34 (46)	39 (52)	41 (56)
Weight	kg (Lb)	560 (1235)	590 (1300)	635 (1400)

5.3 MACHINE IDENTIFICATION DATA

The machine is identified by means of the following technical data:

- Type of machine
- Registration number
- Year of manufacture
- Weight

stamped on the rating plate fastened to the frame of the machine. This data should be mentioned when requesting any replacements or information.

AGRICULTURAL MACHINERY Spa OG018 TRESTINA-PERUGIA-ITALY Phone: 075-8540021 Fax: 075-8540523				
SERIE N° MADE IN ITALY				

SECTION 6 ASSEMBLY

6.1 TECHNICAL NOTES

We will provide a few examples to make it easier to choose which of the various accessories to use for each step of assembly. An approximate equivalent of the metric measurements is given in inches.

6.1.1 PINS AND SCREWS (fig. 6.1)

Example: a pin with a 25 mm (1") diameter and a screw with an M 16 (5/8") diameter, both 50 mm (2") long, will be listed as:

D 25 x 50 (D 1" x 2") and M 16 x 50 (D 5/8" x 2").



6.1.2 SHIMS, SPACERS, BUSHINGS AND WASHERS (fig. 6.2)

Example: a shim, spacer, bushing or washer with an inside diameter of 25 mm (1"), outside diameter of 50 mm (2") and thickness or length of 13 mm (1/2") will be listed as: $D 25 - 50 \times 13 (D 1" - 2" \times 1/2")$.



6.1.3 NUTS, GREASE NIPPLES (fig. 6.3)

Example: a nut or grease nipple having a thread of M 8 (5/6") will be listed as: M 8 (5/16")



6.2 INSTRUCTIONS ON HOW TO ASSEMBLE

In fig. 6.4 is shown the packaging of the machine in crate. To put the machine as in fig. 6.5, using a forklift truck, crane or other suitable equipment of sufficient capacity attach, the machine in holes 1 and lift the machine pivoting in pin 5 until position in fig. 6.5 is reached.







Be careful: the frame 2 is very unstable. Frame 2 is pivoting in axle 3 and in pin 4.

Pay attention to tie rod 6 sliding on long hole 7.

6.2.1 see pict. 6.6





Refer to fig. 6.6 and carry out the following steps in the order indicated:

- Use pin 5 (ø35 x 244 ø 1"3/8 x 9"19/32) to mount tie rod 1 into the support 20 and fasten with two spring pin (ø 8 x 50 - ø 5/16 x 2").
- Mount rubber 24 to tie rod 1.
 Mount lock spring 3 on tie
- rod 1 with screw M8x55 (5/16x2"5/32), washer ø9 (ø11/32) and nut M8.
- 4) Mount four grease-nipple 9 M6.



ATTENTION!! The four screws A (M16x50 10.9) at both side of the machine, are mounted with 300 Nm torque and Loctite. The cup washers are mounted as in figure.



6.2.2 see pict. 6.7



DANGER 🏢 🧥

Refer to fig. 6.7 and carry out the following steps in the order indicated:

 Mount safety bar 1 with rubber spring 3 on side as in figure, with two pins 2 (Ø 22 x 117 - Ø 55/64 x 4"19/32) and three spacer 4-5 (Ø23xØ30x10 - Ø1"11/64x Ø57/64 x 22/64) into the supports as in figure. and fasten with spring pin (Ø 6 x 35 - Ø 15/64 x 1"3/8) and washers (Ø 23 -Ø 57/64). The spacer 5 has to be mounted on one side as in figure.



6.2.3 see pict. 6.8 Mount internal conveyor disc

The conveyor disk 5 (see fig. 6.9) are splined to a shaft and have to be positioned so that the main axle is at right angles with those next to it (see fig. 6.8).

Cupped washer 1 in figure must be mounted with its concavity facing downwards. The self-locking nut 2 must be tightened with a dynamometric spanner set at 320 Nm torque.

The screws 3 (n°6 M10 x 20 flanged) must be tightened with a dynamometric spanner set at 70-80 Nm torque. Then mount plug 4.





6.2.4 see pict. 6.10





Refer to fig. 6.10 and carry out the following steps in the order indicated:

 Mount protection canvas support 4 to the gearbox (align it vertically) with four screws 1, growers 2 and washer 3:

screws M12 x 40 (15/32 x 1"9/16) for 6 discs model (100 Nm torque)

screws M14 x 40 (35/64 x 1"9/16) for 7 discs model (110 Nm torque) using loctite or similar.



6.2.5 see pict. 6.11

- Mount hook 1 as in figure with pin 2 and fasten with two spring pin (ø6x40 - ø15/64 x 1"36/64) and two washers (ø 26 - ø 1").
- 2) Mount spring 3 as in figure.
- Mount the lever 5 as in figure with screw 6 (M8x45 - 5/16" x 1"49/64), and locknut without tighten fully.
- Mount the threaded rod 7 and ball joint on point 9 with normal nut M8. The distance A should be ~504mm (19" 53/64)
- Mount the ball joint on point 8 of lever 5 with selflocking-nut M8 as in figure.
- Fasten rod 7 on point 10 with special hexagon pin and one split pin (ø3x30 – ø7/64x 1"11/64).
- 7) Mount rope in hole 4 with a node.







6.2.6 see pict. 6.12

Refer to fig. 6.12 and carry out the following steps in the order indicated:

- 1) Mount hay plate 1 to the cutter bar with screws item 2 (M12x35 1/2° x 1°3/8) and 3 in picture (M10x35 3/8° x 1°3/8) and washers (\emptyset 10 25/64).
- Mount support 5 to the canvas support 6 with four screws item 4 in picture M12 x 25 (15/32 x 1") and growers (ø 13 – 1/2") with 80 Nm torque.
- Mount support 5 in point 7 with screw M14 x 50 (35/64 x 2") and two nuts M14 counterlocked (180 Nm torque).



6.2.7 see pict. 6.13

Refer to fig. 6.13 and carry out the following steps in the order indicated:

- Mount spring 38 as in figure on pin 28 and fasten with one spring pin 39 (ø8x50 - ø5/16 x 2") and washer 30 (ø 25 - ø 1"). If necessary, unscrew tie-rod 37 until to fit pin 5. Remember to readjust spring tension (see 8.4).
- Mount the threaded rod 37 of the spring 38 on pin 5 with spacer 36 (ø35-ø42x20 - ø1"3/8-ø1"41/64x 25/32) and washer 40 (ø35 ø1"3/8) and fasten with one spring pin 39 (ø8x50 - ø5/16x 2").



6.2.8 see pict. 6.14

- 1) Mount lift lever 1 as in figure on pin 2 and fasten with one spring pin (ø6 x 45 - ø15/64 x 1"49/64) and washer (ø26 - ø1").
- 2) Mount lift lever 3 as in figure on pin 4 and fasten with one spring pin (\emptyset 6 x 45 - \emptyset 15/64 x 1"49/64) and bush with hole (\emptyset 25– \emptyset 40x21 - \emptyset 1"- \emptyset 1"9/16 x 13/16).
- Mount lift cylinder 6 as in figure (the hose attach must be on the down side of the cylinder) with:

pin 5 (\emptyset 30 x 85 - \emptyset 1"11/64 x 3"9/64) with two spring pin (\emptyset 8x50 - \emptyset 5/16 x 2") and two washers (\emptyset 31 - \emptyset 1"11/64); pin 7 (\emptyset 25 x 148 - \emptyset 1" x 5"13/16) with two spring pin (\emptyset 6 x 45 - \emptyset 15/64 x 1"49/64) and two washers (\emptyset 26 - \emptyset 1"), position cylinder 8 and lever 3 as fig. 6.14





6.2.9 see pict. 6.16

Refer to fig. 6.16 and carry out the following steps in the order indicated:

Mount conveyor sheet 4 with:

- 1) point 9: screw (M 8 x 25 5/16" x 1"), two large washers and nut
- point 8: screw (M 10 x 25 ø 25/64" x 1"), washer and nut
- 3) point 11: on the rear view of the machine with screw (M 10 x 25 ø 25/64" x 1"), washer and nut.





6.2.10 see pict. 6.17

Refer to fig. 6.17 and carry out the following steps in the order indicated:

- Mount rear protection 13 on support canvas 1 as shown with five screw 14 (M10 x 20 25/64 x 25/32) and nut 16 (M10 25/64) and washer 15; use screw 42 (M10 x 25 25/64 x 1") to mount vertical protection 45. Do not use hole 43 at this time.
- Mount the three pivoting supports 17 on support canvas 1 as shown with three screws 18 (M12 x 75 15/32 x 2"15/16) and self-locking nuts 19 (M12 – 15/32)

Do not fully tighten the screws 18 to let pivoting the front protection.

- [DM7S only] Mount together protection 35A-B and protection 32A-B with four screw 21 (M10 x 25 1 x 25/32) and nut 7.
- 4) Mount front protection 20 on pivoting supports 17 as shown with five screw 21 (M10 x 20 25/64 x 25/32) and nut 22 (M10 25/64) and washer 23. Do not use hole 41 at this time.
- 5) Mount plugs for pipe (\emptyset 27 x 2.5 \emptyset 1" 1/16 x 3/32").

6.2.11 see pict. 6.18

Refer to fig. 6.18 and carry out the following steps in the order indicated:

- Mount protection canvas with the opening for cylinder and spring bar in right position. Fasten all the belt of the canvas.
- 2) Mount plugs (ø 33.7 x 3 1" 5/16 x 7/64") for pipe 1 and 2
- Make three holes 10 on protection canvas as shown for screws 5 (M 10 x 25 – 25/64" x 1") to assembly support 1 and 2, and fasten with washer 7 and nut 6.
- Use screws 3 (M 10 x 75 25/64" x 2"15/16) and self-locking nuts 4 to mount support 1 and 2, but not fully tighten to make them pivoting.
- 5) Mount pivoting spring 8 on pins 9.



Refer to fig. 6.19 and carry out the following steps in the order indicated:

- Use two screws 8 M6 x 16 (D 15/64" x 5/8") and large washers 6 to assemble casing 7.
- Insert the two hoist pins 13 into their respective slots and use screws 22 M8x80 (5/16" x 3"9/64), nuts 21 to fasten into the position which best suits the dimensions of the tractor.
- 3) Insert clamp 12 of hoist chain 11 on one of the hoist pins 13 and fasten with washer 14 (Ø 25 Ø 1") and spring pin 15 (Ø 8 x 50 Ø 5/16" x 1" 61/64).
- Insert cardan shaft hook 24 in one hole of 3rd point and use clip 20 to lock it when machine is operating.
- 5) Pin 25 is used for the 3rd point tractor attach.
- 6) Insert hydraulic hose 1 in the open ring 2.







SECTION 7 INSTRUCTIONS FOR INSTALLATION AND USE

7.1 HOW TO ADAPT TO THE TRACTOR

The machine can be adapted to tractors with various gauges by placing the two hoist arms as shown in figure 7.1, so that distance A is about 5 cm (2 inches) when the machine is in the work position. In order to obtain the various positions in fig. 7.1, slide the pins 13 (fig.7.2) in the respective slots and fasten into position with screws 22 and nut 21 (fig. 7.2) in one of the adjustment holes 23 on the pins.

- If necessary, move the vertical movement adjuster tie rod on the hoist arms until both balland-socket joints are at the same height above ground.
- 2) Fasten the two tractor hoist arms into pins 13 and lock with pegs 24 (fig. 7.2).
- 3) Fasten the third point tractor 1 (fig. 7.3) and adjust it so that axle E is vertical.
- 4) Rise the machine with the tractor's hydraulic lift, put up the stand A (Fig. 7.4) until it hooks onto the lock spring B.







WARNING !!!

When working and during transport, the stand A must be locked in the lock spring B (Fig. 7.4).





7.2 Adjustment of the height of the frame above the ground

For tractors equipped with a hydraulic lift limiter with controlled position:

- On flat ground, lower the tractor's hydraulic lift until bar A (Fig. 7.5) hooks into place. Bar A must have a functional play "X" of about 3 mm (0.15 inches) as shown in Fig. 7.5.
- 2) After having adjusted the height of the frame, set the position of the lift control from the driver's seat of the tractor. In this case it is not necessary to use the limiting chain 2 (Fig. 7.6) supplied with the machine.





For tractors not equipped with a hydraulic lift limiter with controlled position:

- Fasten in place the limiting chain 2 in Fig. 7.6 supplied with the machine with the hook (16) in Fig. 7.2 to one of the free holes in the bracket of the tractor third point.
- 2) Lower the machine into the work position until the bar A (Fig. 7.5) enters in its place and the limiting chain 2 (Fig. 7.6) is taut. Bar A (Fig. 7.5) must have a functional play "X" of about 3 mm (0.15 inches). The height H from the ground is correct when there is:
 - Mower bar on the ground.
 - Distance "X" of about 3 mm (0.15 inches).
 - Limiting chain 2 in Fig. 7.6 taut.

7.3 HOW TO ADAPT THE CARDAN SHAFT

In order to make sure that the cardan shaft is the right length compared with the tractor power takeoff (with the machine already attached to the tractor), proceed as follows(see pict. 7.2):

- 1) Remove the two cardan joint axle shafts and insert them separately on the two power takeoffs (tractor and mowing machine) with the clutch on the side of the mowing machine.
- 2) Place the two axle shafts one alongside the other.
- 3) Check that when the cardan shaft is stretched to its minimum length (repeatedly raise and lower the machine to find this position), the tubes do not touch the bottom, so that there is always a minimum clearance B of 20 mm (0.79 inches).



4) If necessary, reduce the two axle shafts as well as the two axle shaft protections by the same amount (keeping the above-mentioned conditions), and take care to clean and lubricate them before starting work.



When the cardan shaft is stretched to its maximum length (with the safety device released), the cardan tubes must remain inserted at least 10 cm (4 inches).

Use the relevant chains to fasten the outer cardan shaft protection





It is your responsibility to read and comply with this documentation. If information given in this manual should conflict with that given in the Cardan shaft manual, you should follow the instructions given by the Cardan shaft manufacturer.

7.4 PUTTING IN THE TRANSPORT POSITION



Make sure that no person or object is standing within the turnover range of the disk carrier bar.

IMPORTANT

Before transport the machine on public roads, the user must always make sure that it complies with the highway code.

To put the machine into position for transport on public roads or from one field to another, do the following:

- With the machine in the work position, detach the tractor power takeoff and wait until all moving components have come to a full stop.
- 2) Flip back the front deflector A (Fig. 7.8).
- Pull the cord of hook C to free the lifting brace (D) (Fig. 7.9). If the lifting brace (D) in not free in his socket, lower the tractor's hydraulic lift until the lifting brace (D) is free and then pull the cord of hook C.
- 4) Raise completely the machine with the tractor hydraulic lift.
- 5) Slowly raise the mower bar vertically actuating the machine's hydraulic cylinder. Release the tension of the cord of hook C (Fig. 7.9) while raising the mower bar vertically. This will hook automatically with the locking hook C (Fig. 7.9).







Pull the cord of hook C (Fig. 7.9) every time you want to raise the mower bar into the vertical position. While raising it vertically, release the tension on the cord.

THE TOTAL TRANSPORT HEIGHT OF THE MACHINE MEASURED FROM THE GROUND MUST NOT EXCEED THE MAXIMUM HEIGHT AUTHORIZED BY THE HIGHWAY CODE.

7.5 PUTTING IN THE WORK POSITION



BEFORE PUTTING IN THE WORK POSITION, SEND ALL PEOPLE AWAY FROM THE MOWER BAR PIVOTING ZONE.

With the machine in the transport position, proceed as follows:

- 1) Put the hydraulic cylinder under pressure to lighten the locking hook A (Fig. 7.10).
- 2) Pull the cord of hook A to release the lock.
- 3) Lower the mower bar into the work position using the machine's hydraulic cylinder.
- 4) Flip the front deflector C (Fig. 7.11) forward into the work position as shown in figure.
- 5) Check the height of the frame from the ground. The lifting brace D (Fig. 7.12) must be in its place and have a functional play "X" of about 3 mm (0.15 inches).





7.6 **USE OF THE DISC MOWER**



MAKE SURE THAT THE PROTECTIVE COVER IS SECURELY IN PLACE ALL AROUND THE MOWER BAR HAZARD.

The protective cover avoids the throwing out of plant residues and foreign objects.

Before putting the mower bar into the forage, connect the tractor power takeoff and accelerate gradually up to 540 RPM.

The forward speed must be adapted to the working conditions.

When working, the simple effect hydraulic distributor must always be in the floating position to allow good adaptability to the unevenness of the ground.

For lifting operations at the head of the field (Fig. 7.14), the mower bar maneuver is done with the machine's hydraulic cylinder.

The lifting kinematics are conceived to free the group from the ground while the mower bar is raised. To do this, actuate the hydraulic cylinder until the locking hook A of the piston reaches the end of stroke (Fig. 7.13).







actuated during working position, the lifting brace D (Fig. 7.12) must be in its socket, otherwise damaging may occur.

WARNING !!!



CAUTION. NEVER MOW ON STONY OR ROCKY SOILS.



WHILE WORKING THE PROTECTIVE COVER MUST ALWAYS BE IN PLACE WITH THE FRONT PART OF THE PROTECTION LOWERED. NEVER LEAN ON OR CLIMB ON THE PROTECTIVE COVER.

7.7 HOW TO DISCONNECT THE MACHINE



During operations to disconnect the machine, be careful not to lower the mower bar below the horizontal line (Fig. 7.17).

- 1) Using the hydraulic cylinder, lower the disc mower bar into the horizontal position (Fig. 7.17).
- Unlock component A (Fig. 7.15) and turn it over downward against plate B on the drop box (Fig. 7.16). For this, make sure that the upper part of the drop box is free of foreign objects.
- 3) Actuate the tractor hydraulic cylinder to lower the machine to the ground.
- 4) Disconnect the third point and disconnect the hydraulic hose.
- 5) Then disconnect the drawbars and the cardan driveshaft.









FOR YOUR SAFETY: ALWAYS DISCONNECT THE MACHINE WITH THE MOWER BAR IN THE HORIZONTAL POSITION.

SECTION 8 ADJUSTMENTS AND SET-UP

8.1 BELT TENSION

Belt tension must be checked regularly particularly during the first few hours of use. In order to adjust tension proceed as follows (see pict. 8.1):

- In order to have the right belt tension, you have to tighten screw A till the spacing pipe C is in contact with upright D and washer B, then you have to tighten screw A for other 2 compete turns.
- Finally check that tension is correct. Distance, visible through opening on rear side of belt cover, is about 20 mm (0.8 inches) when pressure is applied to the belt.

Note : You have to tighten the screw A for the 2 final turns, just for the first assembling and the following replacements of belts.

If a belt has to be replaced, all belts should be replaced at the same time. The belts must be loosened at the end of the season.

8.2 CUTTING HEIGHT

The cutting height can be adjusted by using turnbuckle 1 on the third tractor point to vary the tilt of the knives compared to the ground (distance F in fig. 8.2).

Cutting height may vary within the range of 16/60 mm (0.63/2.36 inches) even though uneven land may influence these values.

8.3 HYDRAULIC FLOW ADJUSTER

The hydraulic flow adjuster 1 in fig. 8.3 (item 4 rapidcoupling and item 3 hydraulic hose) is used to move down to the ground the cutting bar slowly to prevent it from damage.

To set hydraulic flow adjuster turn nut 1:

The standard adjustments is two complete turns from max slow position.

When setting operation is ended lock nut 1 with counter-nut 2.



Pay attention to hydraulic flow adjustment: try to move up and down the cutting bar during setting operation to check the right adjustment.

The <u>hydraulic flow adjuster works in only one</u> <u>direction</u> so always check the right assembly as in figure.







8.4 SPRING TENSION

To adjust spring tension (fig. 8.4):

- 1) Lift the disk carrier bar until spring is not tensioned.
- 2) Loose the nut A and turn the spring B.
- 3) When adjust is completed, tighten the nut A.

The dimension C is (standard adjustment): 100 mm (4") for 7-8 discs model 130 mm (4") for 6 discs model



The dimension C must be always lower than

130 mm (5" 7/32) for 7-8 discs model 150 mm (5" 57/64) for 6 discs model

for transport position



8.5 SAFETY DEVICE

Safety device B (fig. 8.5) unhook when it receives blows that are too strong for the machine structure.

The dimension A is the length of the rubber spring of safety device when tensioned between the two washers; it is 95 mm (3" 47/64) for the standard adjustment.

When adjust the length of the spring, tighten the relevant screw very carefully until unhooking occurs at reasonable intervals only.



The dimension A must be always higher than 85 mm (3" 11/32).

Danger of not unhooking when it receives blows that are too strong for the machine structure



SECTION 9 FAULTS: REASONS AND REMEDIES

9.1 The disk carrier bar vibrates too much during work:

the nylon bushings of the joints in question are over worn or completely worn out.

 \Rightarrow replace the bushings;

the pins and/or respective bushings/bearings of the joints in question are over worn.

 \Rightarrow replace the worn-out parts and lubricate regularly;

the outer conveyor is too slack

 \Rightarrow check that it is fastened correctly.

9.2 <u>The disk carrier bar does not adapt correctly to uneven ground:</u>

the height of the tractor coupling plate is not adjusted correctly

⇒ readjust as specified in point 7.1 (in particular check that both ball-and-socket joints are the same height above ground);

the machine joints resist free rotation

 \Rightarrow clean and lubricate the parts in question.

9.3 <u>The disk carrier bar is not raised parallel to the ground:</u>

the entire machine is leaning to one side

 \Rightarrow check that both hoist ball-and-socket joints are at the same height above ground; Earth accumulates between two sliding blocks in the front part of the disk carrier bar:

9.4 <u>7.4 Earth accumulates between two sliding blocks in the front part of the disk car-</u> rier bar

The ground is exceptionally wet;

the bar presses to hard on the ground

 \Rightarrow increase tension of the spring B fig. 8.4;

the disk carrier bar tilts too far forward

 \Rightarrow adjust the tilt of axle E fig. 8.2 by moving turnbuckle 1 on the third point.

9.5 <u>Safety device (fig. 8.5) often unhooks under impact:</u>

The rubber buffer B is worn out or is not adjusted correctly.

⇒ check the condition of the rubber buffer and if necessary, tighten the relevant screw very carefully <u>(dan-ger of not unhooking when it receives blows that are too strong for the machine structure)</u> until unhooking occurs at reasonable intervals only.

9.6 <u>The stubble is too high or too sparse:</u>

The disk carrier bar does not tilt correctly (axle E in fig. 8.2) \Rightarrow use turnbuckle 1 on the third point to adjust the tilt.

9.7 <u>The stubble is not the same height all along the cutting width:</u>

the disk carrier bar tilts too much

 \Rightarrow reduce the tilt of the disk carrier bar (fig. 8.2);

the knives are over worn

 \Rightarrow replace the knives;

power takeoff speed is insufficient

 \Rightarrow increase power takeoff rotation speed up to, but not over, 540 revs/min;

forward movement speed is too fast

 \Rightarrow reduce tractor speed.

9.8 <u>The forage is pushed forward before being cut:</u>

the ventilating effect of the knives is too strong

 \Rightarrow reduce power takeoff rotation speed and increase tractor forward movement speed.

SECTION 10 MAINTENANCE

10.1 HOW TO FASTEN CUTTING DEVICES

After they have been used the first time, the disks, knives and relevant parts to fasten them must be controlled regularly every 15-20 working hours. More frequent checks will have to be made if mowing is carried out on stoned ground and after impact with an obstacle.

The oval disks are splined to a shaft and have to be positioned so that the main axle is at right angles with those next to it (fig. 10.1).

The knives are fastened by means of a special selftapping screw and an M12 nut (fig. 10.2); the nut must be tightened with a 16 kgm (160 Nm) torque.

Cupped washer 1 (fig. 10.3) must be mounted with its concavity facing downwards. The self-locking nut 2 must be tightened with a dynamometric spanner set at 32 kgm (320 Nm).

The six screws 3 must be tightened with a dynamometric spanner set at 70-80 Nm torque.

Pay attention to the direction of disk rotation. Worn knives can be replaced by carefully looking at fig. 10.1 (A is the work moving direction); the second cutter (if still in good condition) can be used by putting it back turned up-down at the same side of the disk. If worn knives are used to mow, the cut will be less precise and more power will be used.







10.2 HOW TO CHECK THE MOWING DEVICES

The knives should be replaced when:

- \Rightarrow the width of the knife at point B=1 cm (0.4 inches) from the edge of the disk is 3/4 of the original width A (fig. 10.4).
- ⇒ the oval shape of the hole is more than a distance of C=2 mm (0.08 inches) of the size of the original hole (fig. 10.5).

The clamp parts should be replaced when:

- ⇒ the screw to fasten the knives is bent or too worn out below the head (fig. 10.6).
- \Rightarrow the self-tapping layer 1 of the screw to fasten the knives is missing or too worn out; we advise changing the screw after it has been tightened 5 times (fig. 10.7).
- ⇒ the clamp screw is worn down where it holds the knife to a distance of E higher than or equal to 3 mm (0.12 inches) (fig.10.8).
- \Rightarrow the height of the lock nut at any point whatsoever is less than or equal to 1/2 of the total nut height (fig. 10.9).



Worn out or damaged pieces must be replaced with original spare parts.







10.3 GENERAL MAINTENANCE

Before carrying out any cleaning or maintenance operation etc. comply with all the safety warnings given in this use and maintenance handbook. Before carrying out any operation directly, first:

- switch off the engine;
- remove the key from the dashboard and put the brake on the tractor;
- release circuit pressure;

check that the mower is stable.

The following points should be checked on each new machine 8 working hours:

- the screws are correctly tightened;
- the tension of all the belts;
- that no parts of the hydraulic system are leaking;
- that the driving gear parts are correctly lubricated.

Carry out the following checks regularly particularly at the beginning of each season:

- check/replace the oil, lubricate/grease each point necessary, according to the instructions;
- check wear and tear of the knives and respective clamp parts;
- check wear and tear of protection parts;
- reset correct belt tension;

check that all the screws are tightened correctly.

Before beginning to mow, make sure that the machine is working correctly and there are no vibrations.







10.4 LUBRICATION

Change the oil in the disk carrier bar and the overgear box after the first 50 hours use. After this first change, we advise changing the oil every 100 working hours or at least once a year.

- The <u>cardan shaft</u> should be greased regularly as shown in fig.10.10.
- The joints, supports, hinges, and points equipped with lubricator as shown in figs. 10.14 should be lubricated or greased frequently, at least every 20 working hours.



When in use, check the oil levels every day and top up if necessary.

10.4.1 OVER-GEAR BOX (fig.10.11)

1= drain/loading cap with level rod 2= breather cap on disk carrier bar.

Use SAE EP 80 W 90 oil in the quantities shown in the table. Check the level with the special rod on the drain/loading cap when the bar is lying horizontally. Oil can be drained through the hole in cap 1 when the bar is vertical.

10.4.2 DISK CARRIER BAR (fig. 10.12)

1= loading cap - level cap 2= drain cap

Use SAE EP 80 W 90 oil in the quantities shown in the table.

Oil is loaded and the oil level is checked when the disk carrier bar is vertical (it must have been in the vertical position for at least 5 minutes).

In order to fill up the oil unscrew both caps 1 (filling and level) and pour in the amount shown or the amount needed to top up the level through the hole in cap 1 (tilt the bar slightly if necessary so it is easier to pour in the oil) until the level of cap 1 is reached.

	litres	Gall. UK	Gall. USA
Over-gear box	0,7	0.16	0.19
6 disk bar	2,9	0.64	0.77
7 disk bar	3,6	0.80	0.95
8 disk bar	3,8	0.85	1







IMPORTANT

Keep clean this area every 8 working hours from dust or earth accumulated between lever A and frame. Check lever A do not stay up all the time.

10.5 END OF SEASON STORAGE

At the end of the season we recommend storing the machine with the bar lying horizontally after having cleaned it carefully. You should also:

- lubricate and grease each point shown in this use and maintenance handbook;
- protect the areas subject to rubbing with a layer of anti-rust paint;
- loosen the trapezoidal belts and check that the protection plate is lying flat.





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