



3-POINT HITCH SPREADER

TRACTOR IMPLEMENTS OWNER'S OPERATOR SERVICE MANUAL

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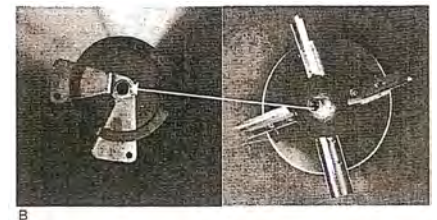
INTRODUCTION

In this manual you will find the instructions for the operation and maintenance of spreader machines, as well as the spreading tables designed as a guideline for spreading various type of fertilizers and seeds.

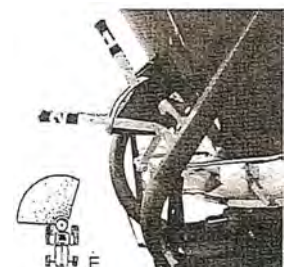
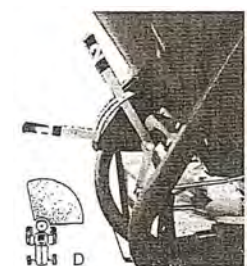
ASSEMBLING

In the case the spreader has been supplied unassembled (Pict. A), it is necessary to follow these simple steps:

- join the two tubular parts of the frame and fit the proper bolts without tightening them
- attach the lower part of the frame and the spreading assy, then fit the Proper bolts (Pict. A1).
- tighten all bolts
- mount the hopper on the frame and make sure that the five holes of the Hopper are lined up with those of the frame
- place the bolts and tighten them up, make sure that the hopper is centered
- connects the levers to the shutters and adjust them by placing both levers on "0" position. In this position both shutters should be completely closed.
- insert the agitator spindle in the vertical gear box shaft inside the hooper (B)



In order to obtain the total spreading width of the fertilizer or seeds, it is enough to move both levers 1 and 2 linked together by a special pin (C). To spread to the left side of the driver, simply remove the linking pin from the two levers, lower lever 1 and leave lever 2 in "0" position (D). To spread to the right side of the driver, simply remove the linking pin from the two levers, lower lever 2 and leave lever 1 in "0" position (E)



ADJUSTMENT OF THE SPREADER VANES

To obtain maximum uniformity of the spreading, regardless of the different specific gravities of the fertilizer to be spread, it is possible to adjust the spreading vanes on the disc by moving them into the most appropriate position (F)

MAINTENANCE AND LUBRICATION OF THE MACHINE

It is necessary to wash the equipment with water after use. Dry and oil the shutters and slides. It is necessary to perform these-



operations immediately after use. Replace the oil or grease in the gearbox after the first 30 working hours and afterwards do it every 250 hours of service. For replacing the oil, unscrew the drain plug and wait till oil has drained completely. Turn equipment upside down (G) and refill gearbox with about 0.55 lb of clean oil. Periodically grease the universal joint shaft as well as the sliding parts.

HIGH STANDARDIZATION OF PARTS

All the components of spreaders line are interchangeable except the Hoppers.

RECOMMENDATION

We recommend that this manual accompanies the machine if it is resold A 2nd time.

WARNINGS

Before setting the machine into operation, make sure that all the mechanisms run freely. Grease the cardan shaft and check the oil level in the transmission housing. It is important to engage the PTO slowly.

END OF WORK PERIOD

After use, empty the hopper and completely wash all mechanisms and hopper until all fertilizer particles are completely removed.

To ensure a longer life of your spreader, at the end of the season, completely dismount the hopper and the distributor disc, wash with hot water and soda and protect all non-painted parts using a protective grease or oil.

SAFETY PRECAUTIONS

All spreaders are especially dangerous to kids and people who are not acquainted with their operation. These should be used only by responsible people who have carefully read the operator's manual and are entrusted to use the machines. Before operating the machine be sure to understand this manual. In case there is any part you do not understand well, or a phase of the machines operation you do not understand, please contact your local dealer or distributor.

WARRANTY INFORMATION

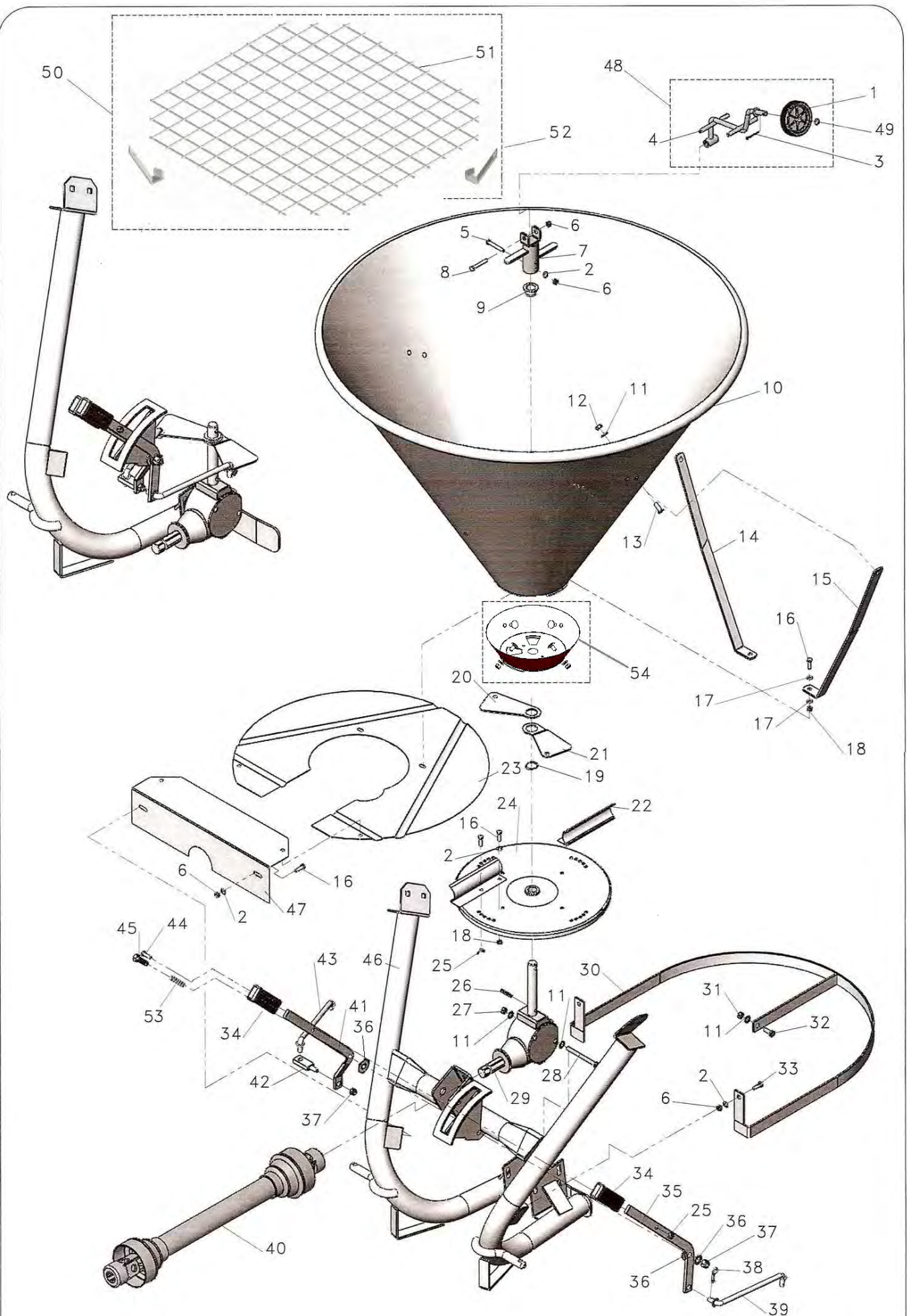
Bad Boy Implements warrants to the original purchaser of any new Bad Boy Implement(s) that the equipment be free from defects in material and workmanship for a period of one (1) year from the date of retail sale.

WHAT THIS WARRANTY DOES NOT COVER

This warranty does not cover defects caused by depreciation or damage caused by wear, accidents, improper maintenance, improper use or abuse of the product, alterations, or failure to follow the instructions obtained in the Owner's Manual for operation and maintenance.

SPREADING CHART FOR FERTILIZER

TIPO	PTO RPM	Spreading width in feet	MPH	Quantity to spread per LB/AC at the running speed indicated in the MPH column												
				Feed												
				1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,7	7	
Fertilizer greater grain	540	72	0,93	201	335	1523	1016	1298	1601	1941	2343	2578	2900	3194	3573	
			2,48	95	139	611	415	518	642	773	937	1032	1164	1294	1452	
			4,97	52	70	320	205	261	321	396	473	523	602	662	745	
			7,45	35	53	212	139	176	219	261	324	344	401	433	493	
			9,94	21	35	159	107	134	171	201	241	259	299	329	375	
Fertilizer medium grain	540	59	0,93		467	1975	1141	1637	1809	2015	2341	2582	2845	2991	3289	
			2,48		176	816	468	510	741	827	947	1032	1143	1204	1334	
			4,97		105	423	237	304	376	418	479	527	582	610	672	
			7,45		73	280	163	199	253	287	326	355	401	415	457	
			9,94		71	203	116	155	189	207	246	268	295	312	341	
Fertilizer fine grained	540	39	0,93	177	289	714	500	826	1066	1593	1896	2134	2447	2659	2960	
			2,48	85	122	505	341	441	552	649	773	866	1001	1086	1189	
			4,97	47	61	267	179	225	281	325	398	442	501	542	604	
			7,45	30	41	231	122	153	193	221	264	298	341	370	405	
			9,94	17	30	130	86	114	138	169	200	235	257	283	300	
Medium crystalline type fertilizers	540	26	0,93	335	732	2522	1655	2047	2623	3066	3653	4089	4538	4976	5482	
			2,48	117	222	1032	670	827	1068	1238	1466	1465	1826	2000	2204	
			4,97	69	113	522	334	422	541	615	740	832	920	1003	1107	
			7,45	45	77	351	226	284	369	421	497	554	615	673	738	
			9,94	30	55	251	173	210	278	322	369	414	461	503	557	
Calciumamide and similar	540	33	0,93	278	769	2767	1658	1869	2048	29085	3391	4348				
			2,48	110	304	1135	671	820	1007	1174	1361	1529				
			4,97	59	151	573	301	412	501	771	682	766				
			7,45	38	101	370	221	276	337	393	455	510				
			9,94	26	74	280	169	207	255	293	341	381				
Sulf. ammonium (CR)/	540	33	0,93	144	573	2315	1411	1804	2229	2643	3103	3401	3820	4095	4584	
			2,48	62	227	935	565	726	898	1055	1244	1366	1533	1643	1835	
			4,97	29	116	472	285	367	450	527	624	680	785	820	921	
			7,45	23	74	306	192	244	299	353	424	458	515	551	616	
			9,94	15	59	236	145	182	225	266	312	341	383	416	459	
Thomas slag	400	20	0,93					2294	5107	1410	7025					
			2,48					580	1295	1709	1760					
	540		7,45					295	544	855	881					
			11,8					198	433	568	590					



TAB. A

FERTILIZER SPREADER	
TABLE NR°	DESCRIPTION
A	

NO.	DESCRIPTION	NOTE	CODE
1	Wheel for articulated agitator	Option	CZ_001228
2	Washer M8		CG_001009
3	Split pin D.3 x 35		CV_001435
4	Wheel holder for articulated agitator	Option	AS_001290
5	Screw TE M8 x 55		CV_001054
6	Self-Locking Nut M8		CD_001091
7	Agitator		CZ_001150
8	Screw M10 x 70	Option	CV_001065
9	Bushing		CZ_001134
10	Hopper		AS_001032 (F150) AS_001031 (F250) AS_001030 (F300) AS_001028 (F400) AS_001027 (F500) GM_001168 (F500PVC)
11	Washer M10		CG_001010
12	Nut M10		CD_001004
13	Screw TTQST M10 x 25		CV_001350
14	L.H. Connecting rod guard	For ITALY only	SM_003004
15	R.H. Connecting rod guard	For ITALY only	SM_003005
16	Screw TE 8 x 20		CV_001002
17	Galvanized washer 8 x 24		CG_001001
18	Nut M8		CD_001003
19	Seeger		CV_001439
20	R.H. Shutter		SM_001122
21	L.H. Shutter		SM_001123
22	Fan		SM_001117
23	Carter disc	For ITALY only	AC_F10
24	Fan holder disc		AS_001019
25	Wingnut M8		CD_001050
26	Split pin 8 x 40		CV_001411
27	Nut M10		CD_001004
28	Screw TE M10x 110		CV_001069
29	Gearbox		CT_001007
30	Flat guard	For EC only	AC_F09
31	Self-locking nut M10		CD_001092
32	Screw TE M10 x 30		CV_001010
33	Screw TE M8 x 30		CV_001004
34	Handle		CZ_001219
35	L.H. lever		SM_001090
36	Washer M12		CG_001011
37	Self-locking nut M12		CD_001093
38	Split pin diam. 3 x 35		CV_001435
39	L.H. connecting rod		AS_001256
40	Pto shaft		CA_001001 (EC) CA_001002 (USA)
41	R.H. lever		SM_001091
42	Lever return		CZ_001045
43	R.H. connecting rod		AS_001219
44	Screw TE M8 x 40		CV_001006
45	Screw TE M12 x 80		CV_001078
46	Frame		AS_001033
47	Guard		SM_001038
48	Articulated agitator	Option	AC_F04
49	Washer M10 x 30	Option	CG_001002
50	Filtering net	Option	AC_F05
51	Filtering net	Option	SM_003006
52	Hook	Option	SM_001032
53	Molla		CM_001016
54	Bottom	Only PVC	AS_001376



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