Terradonis

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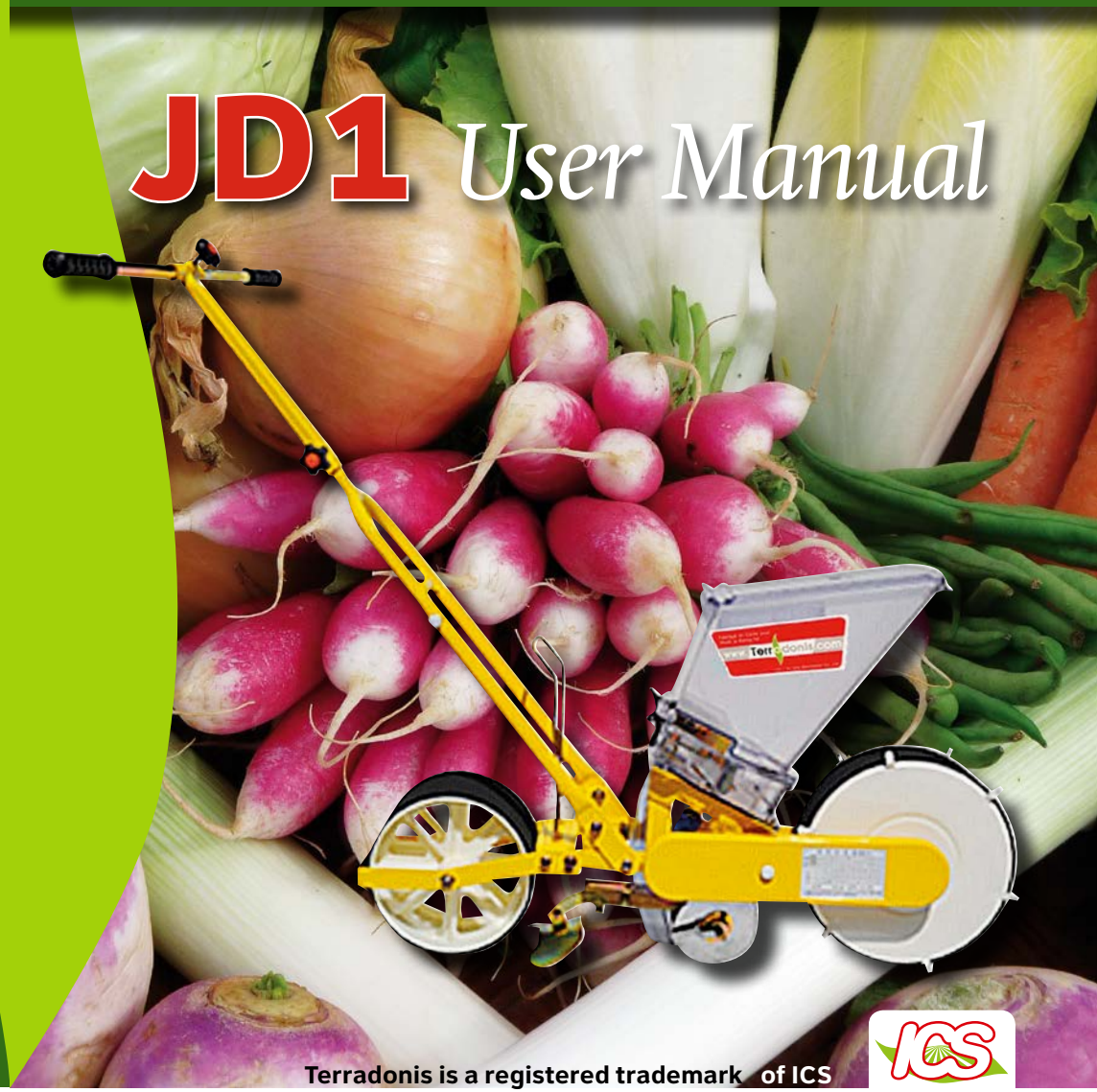
PRECISION DISC SEEDER

JD1 User Manual



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SUMMARY

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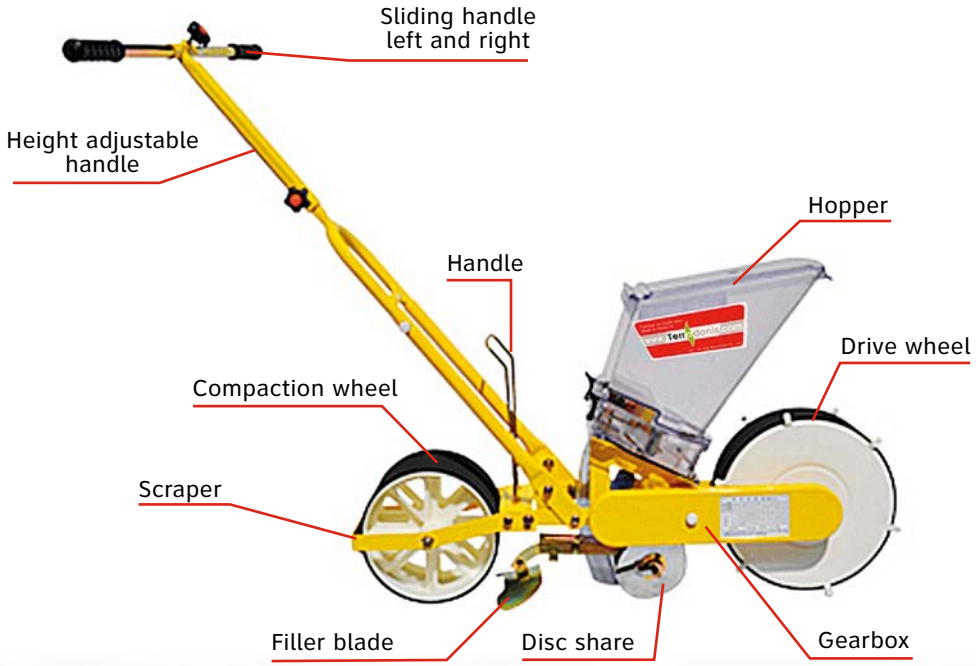
IDENTIFICATION AND FEATURES



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INSTRUCTIONS FOR USE

➜ Lubricate all revolving parts, except for the sowing disc.

➜ The brush, the guide plate, the spongy rubber of the transmission wheel and the spongy rubber of the compaction wheel are consumables. Check them regularly and replace as necessary.

➜ Make sure the seedbed is uniform.

➜ Check the sowing disc for fouling with dirt, pesticides, or seed coating residues. Clean the disc if necessary.

➜ Prepare a seedbed by carefully hoeing and levelling.

➜ Excessive speed can damage the precision of the work. Optimal speed : 2 km/h

➜ Seeds must not be wet. Do not wet coated seeds.

SETTINGS

SEEDING DISCS SPECIFICATIONS

Disc	Thickness	Number of holes	Diameter	Placement	Disc	Thickness	Number of holes	Diamètre	Diameter
A1	5	8	8		E1	4	72	9	
A2	6		10.5		E2			10	
A3			12		S2	6	16	6.8	
C1			13.5		W1			8.6	
C2	5		17		W2			10.6	
A11	6	16	8		X	6	-	-	
A22			10.5						
A33			12		F8-66	6	8	10.5	
B1	5	16 on 2 lines	8		F8-86	8		12	
B2	6		10.5		F8-88			8	

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SETTINGS

➜ **BRUSH:** The brush controls seed output through the disc's holes, ensuring that a predefined number of seeds is released through each hole. Loosen the 2 wing screws to adjust the brush. The higher the brush, the greater the number of seeds released. Hence, when the brush is lowered, fewer seeds are released.
The standard brush position is when it skims against the sowing disc.

➜ **GUIDE PLATE:** The guide plate consists of 2 forks. These forks guide theseeds to the sowing holes, as shown opposite:

➜ **SEEDING DISTANCES:** The distances between the seeding can be adjusted by adjusting the pinions and the number of holes in the disc, see the seed distance table. **Note:** the actual planting distances may vary depending on soil quality and speed of work. Test intervals based on the ground before you start planting.

➜ **PLANTING DEPTH:** Planting depth may be adjusted by lowering or raising the shoe.

➜ **SOIL COVER:** Adjust the angle of the filler blade for optimal soil cover.

➜ **HEIGHT OF THE HANDLE:** The handle height can be adjusted by loosening the screws at the base of the fork of the handle and the buttons on each of its removable parts and by adjusting them according to your needs.

➜ **CLEANING:** If soil sticks to the compaction wheel, the contact surface must be cleaned before it sticks (it might deposit oil or dirt).

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SOWING SEEDS IN ROWS

➜ **SEED QUANTITY:** The quantity of seed is adjusted by the combination of 3 elements: number of holes on the seeding disc, size of the holes in the seeding disc, number of sprocket teeth used.

For the number of holes you need: refer to the table of distances below:

TABLE OF DISTANCES (in mm)

		NUMBER OF TEETH PER SPROCKET										
		Front	14	14	13	13	11	11	10	11	10	10	9
		Back	9	10	10	11	10	11	11	13	13	14	14
Number of holes per disc	2	**Series TP & TD**	470	510	550	590	630	710	790	870	950	1030	1100
	6		150	170	180	200	210	240	260	280	310	330	370
	8		110	130	140	150	160	180	190	210	230	250	270
	16		60	65	70	75	80	90	100	110	120	130	140

➜ **PLANTING DISTANCE:** see table above.

Caution: The planting distance depends on the combination of sprocket teeth (11 adjustment positions) and the number of holes on the disc.
The drive wheel may slip depending on soil quality and placement speed. Therefore, the number of seeds is a guideline only.
If the transmission wheel skids, planting distances will be larger, reducing the number of seedings. So make sure that the wheel does not slip.

Seed dispersal: Seeds are dispersed in a hole according to the direction of the motion until they are sown, and roll on the ground.
The dispersal length varies depending on the size of the hole, the soil quality, the seed size and can vary between 3 and 10cm.

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SOWING SEEDS IN ROWS

➜ **NUMBER OF SEEDS/HOLE:**
The number of seeds differs depending on seed size, which in turn depends on the species and the year and the adjustment of the brush.
Therefore numbers shown in the table of distances are given as a guideline only.

Below are some examples of correspondence between discs and crops, on the basis of one seed per hole:

DISC/CROP MATCH EXAMPLES

CROP	DISC
French bean, Butter bean	B2
Pea	E2, A2
Sunflower	S2
Rice	S2
Sorghum	Metal disc
Watermelon	F8-213, F8-215
Squash, Pattypan squash	F4-218, F6-218, F6-215, F8-215
Courgette	F4-217
Peanut	C2
Cowpea	C2
Broad bean	F8-66, F8-86
Soissons bean	F8-86, F8-66
Lingot bean	A22
Maize	A3
Black-eyed pea	C2
Soya bean	A1

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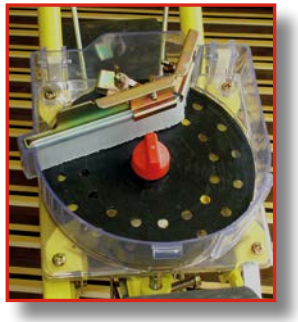
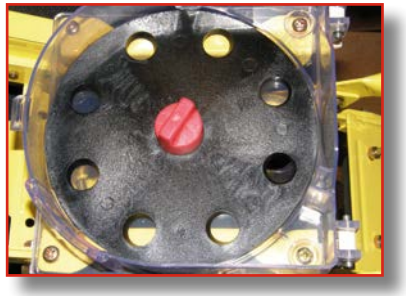
REMOVING THE HOPPER TO POSITION THE DISC

1 Release the hopper by opening the hooks.

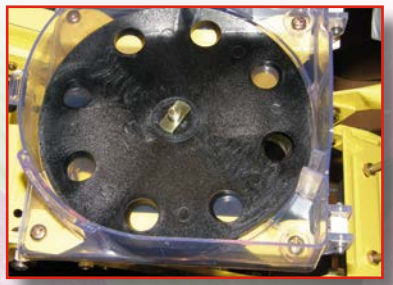
2 Remove the brush by pulling it upwards.

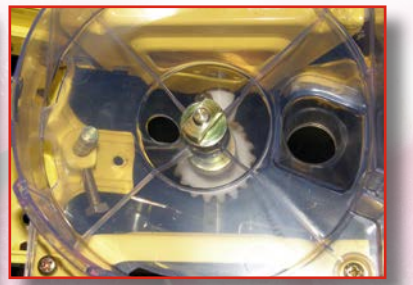


3 Unscrew the red bolt.



4 Remove the disc and fit the selected disc (the disc surface with the arrow should face you).





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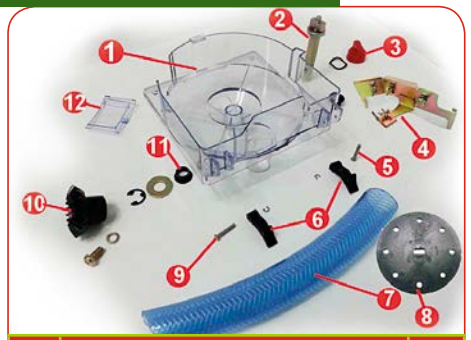
SPARE PARTS...

➜ HOPPER - UPPER PART

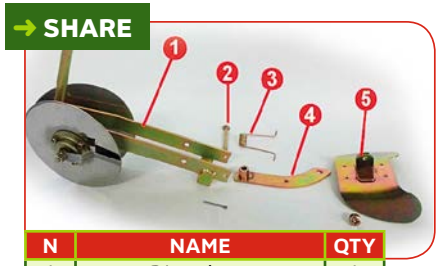
N	NAME	QTY
1	Hopper	1
2	Label	2
3	Rubber spacer	1
4	Clamping plate	1
5	Hopper lid	1

➜ HOPPER - LOWER PART



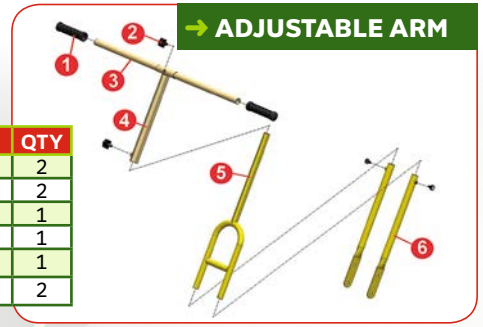
N	NAME	QTY
1	Hopper base	1
2	Drive pin	1
3	Disc clamping bolt	1
4	Brush and seed guide	1
5	Pin	2
6	Hook	2
7	Tube	1
8	Disc	1
9	Pin	1
10	Bevel pinion	1
11	Gasket	1
12	Seed emptying plate	1

➜ SHARE



N	NAME	QTY
1	Disc share	1
2	Pin	1
3	Spring	1
4	Share lever	1
5	Overlap plate	1

➜ ADJUSTABLE ARM



N	NAME	QTY
1	Handle	2
2	Bolt	2
3	Arm	1
4	Upper arm section	1
5	Lower arm section	1
6	Branch (adjustable tilt)	2

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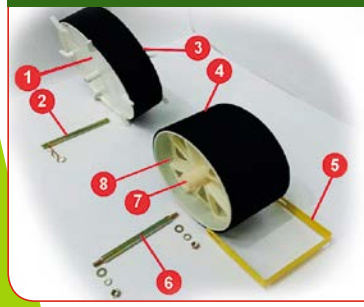
...SPARE PARTS

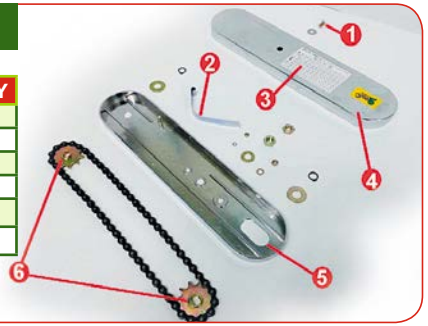
➜ DRIVE WHEEL AND FIRMING WHEEL



N	NAME	QTY
1	Drive wheel	1
2	Drive wheel shaft	1
3	Front protective foam	1
4	Rear protective foam	1
5	Scraper	1
6	Firming wheel shaft	1
7	Spacer	1
8	Firming wheel	1

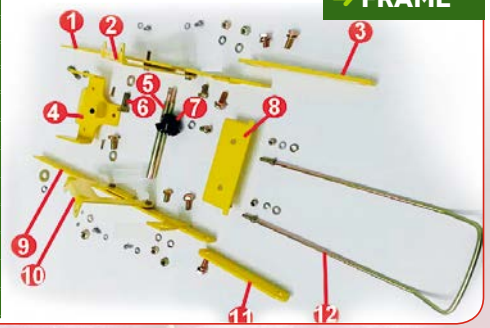
➜ GEARBOX

N	NAME	QTY
1	Bolt	1
2	Chain guide	1
3	Distances table	1
4	Transmission housing (external)	1
5	Transmission housing (internal)	1
6	Pinions	2



➜ FRAME

N	NAME	QTY
1	Right frame section	1
2	Right hopper support	1
3	Right firming wheel frame	1
4	Share support	1
5	Axle	1
6	Bolt	1
7	Bevel pinion	1
8	Handle support	1
9	Left frame	1
10	Left hopper support	1
11	Left firming wheel frame	1
12	Handle	1



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