Manual Disk Seeder
JD-1

Instructions

We appreciate your purchasing our seeder. Please carefully read instructions first before you actually operate our manual disk seeder. This manual includes cautions and how to operate our seeder safely. After reading it, be sure to keep this manual near the seeder.

장자동화
Jang Automation

Congratulations on the purchase of our seeder. Read the directions before operation.
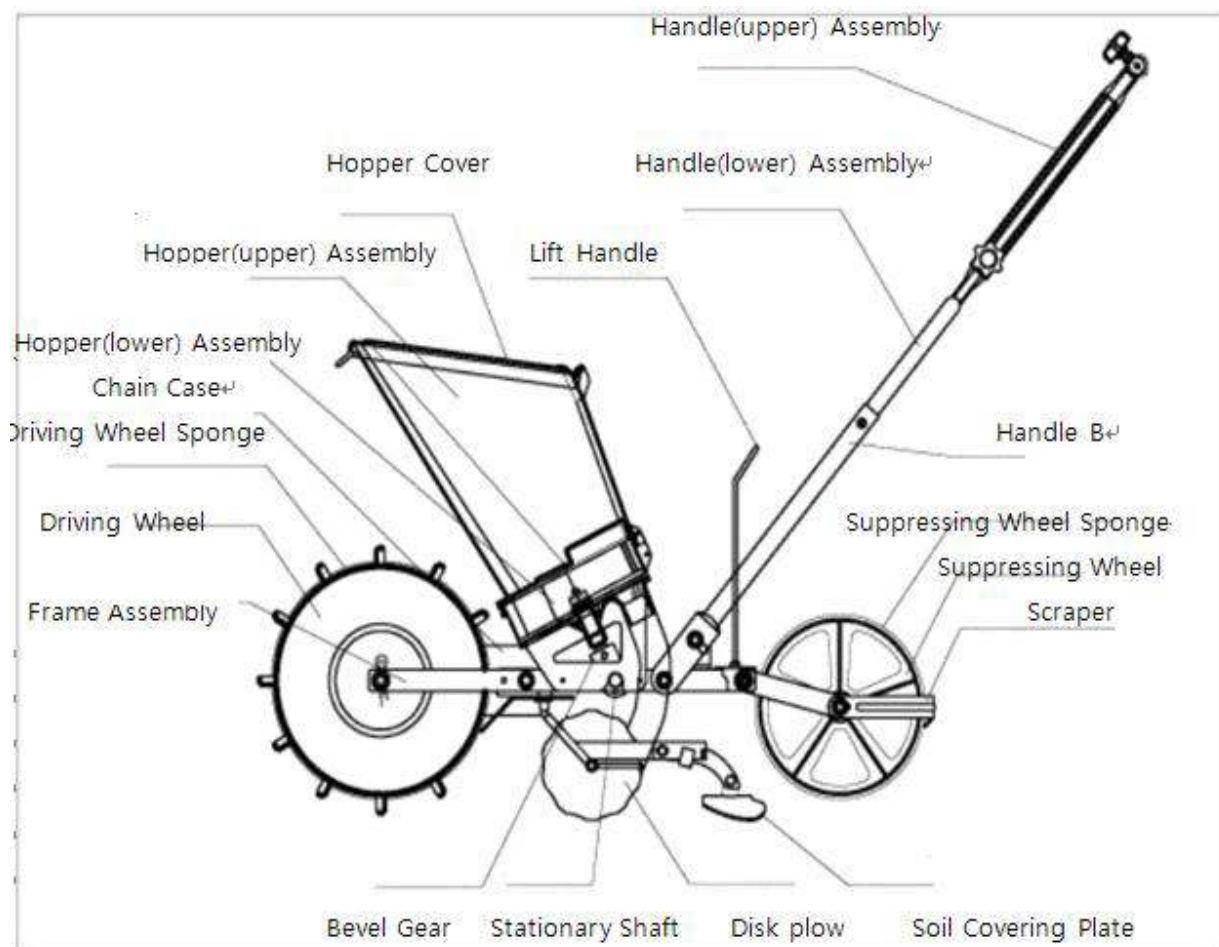
1 Specification

Model	Disk Seeder
Type	Manual type / 1 row
Model Number	JD-1
Length	835mm
Width	155mm (between outer frames) / 662mm (handle) / 100mm (between inner frame)
Height	885㎜
Weight	12kg
Hopper Capacity	7ℓ
Method of Discharging seeds	By rotating inclined disk
Moving Method	Driving wheel and Chain
Distance of spot seeding	By changing sprockets(6~37㎝,33 stages)
Way of making furrow	Stainless double disk type plow
Seeds Available	big pea, small pea, corn, barley, etc. (Just by changing a disk - option)

Note: Specifications above can be changed for improvements without notice.

Features

① Transparent hopper and seed discharging chute.
② Easy attachment and detachment of the hopper and the brush. Simple removal of the remaining seeds and simple disk changing
③ Water-proof structure.
④ Enhanced spot seeding performance
⑤ Replacing sprockets without tools.
⑥ light weight and stronger rigidity

1. Part name

Handle(upper) Assembly

Hopper Cover

Handle(lower) Assembly

Hopper(upper) Assembly

Lift Handle

Hopper(lower) Assembly

Chain Case

Driving Wheel Sponge

Handle B

Driving Wheel

Suppressing Wheel Sponge

Suppressing Wheel

Scraper

Frame Assembly

Bevel Gear   Stationary Shaft   Disk plow   Soil Covering Plate

2. Adjustment of each part

① Seeding disk

Select the proper seeding disk and attach it to the seeding disk shaft.
The side of the seeding disk marked by an arrow should face upward.

Seeding Disk Shaft

Knob

Seeding Disk

Wave Washer

Careful about the position of wave washer
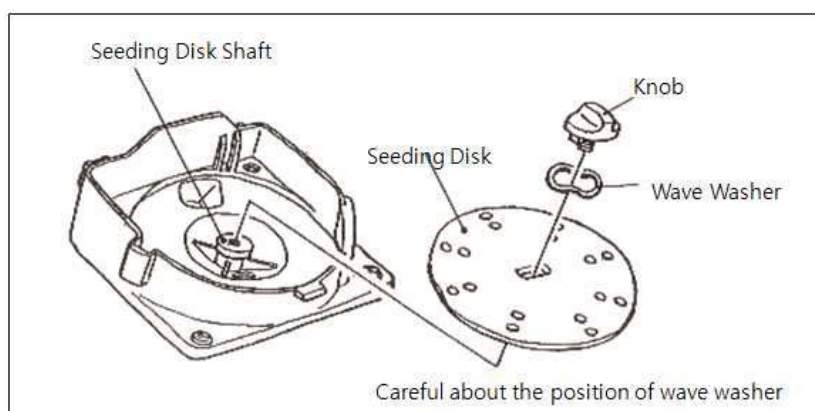
Seed Disk Table

Type	Applicable Seed	Hole Dia.	Shape	No. Holes	Out. Dia.	Thickness	Remarks
A－1	Red beans, small beans	Ø8					
A－2	Beans(30g/100pieces), sweet corn	Ø10.5					
A－3	Beans(40g/100pieces), snow-dent A	Ø12	①	8×1	Ø169	6	X-1processed
C－1	Snow-dent 1, bionia-dent	Ø13.5					
C－2	White-dent corn	Ø17				5	X-2processed
F－1	Red beans, precocious beans	Ø9					
A－11	Red beans, small beans	Ø8					
A－22	Beans (30g/100pieces), sweet corn	Ø10.5					
A－33	Beans (40g/100pieces), snow-dent	Ø12	②	16×1	Ø169	6	X-1processed
A－44	snow-dent A, bionia dent	Ø12.5					
C－11	snow-dent 1, bionia dent	Ø13.5					C-2processed
C－22	White-dent corn	Ø17				5	X-2processed
B－1	Red beans, small beans	Ø8					
B－2	Beans (30g/100pieces), sweet corn	Ø10.5	③	8×2	Ø169	6	
B－3	Beans (40g/100pieces), snow-dent A	Ø12					
B－33	Beans(40g/100pieces), snow-dent A	Ø12	④	16×2	Ø169	5	B-3processed
B－22	Beans(30g/100pieces), sweet corn	Ø10.5				3	B-2processed
B－11	Red beans, small beans	Ø8			Ø170	4	X-2processed
H－1	Precocious red beans	Ø7					X-3processed
G－1	Red beans, precocious beans	Ø9				5	X-2processed
D－1	sweet corn	Ø10.5	⑤	6×2	Ø170	4	X-2processed
D－2	snow-dent 1, bionia-dent	Ø13.5					X-1processed
E－1	Peas	Ø9	⑥	72×1	Ø170	4	B-3processed
E－2	Peas	Ø10					
S－2	Sorgos, wheat (small quantities)	Ø6.8	⑦	16×1	Ø171	5	
W－1	Wheat, sorgos (large grain)	Ø8.6			Ø169	5	
W－2	Barley, beans(30g/100pieces)	Ø10.6	⑧	No hole	Ø170	4	X-3processed
X－1							
X－2							
X－3							

Note: In the event that the appropriate disk is unavailable, the disk holes can be processed with a drill or scraper, or covered with adhesive tape to reduce the number of holes. (Disk shape is subject to change without notification in accordance with technical developments.)

② Brush Adjustment

The Brush controls the seeds entering the discharge holes so that a preset number of seeds can be planted. Unscrew the two wing bolts in order to adjust the brush as necessary. The higher the brush is positioned, the more seeds are fed, and the lower the brush is, the fewer seeds are fed. The standard adjustment is that the brush lightly touches the Disk.

③ Other Adjustments

ⓐ Adjust the handle height by unscrewing the adjusting bolt.

ⓑ To adjust the seeding depth, unscrew the adjusting bolt of the Disk Plow, and adjust the elevation of the Plow. If the depth is set too deep, the Drive Wheel may be off the ground and the seeds may not be planted.

ⓒ Set the seed discharge hose at about 3~5cm higher than the bottom of the plow. If the hose is too long, it may become clogged with soil.

3. Spot Seeding Intervals

In accordance with your field conditions, set the spot seeding intervals with two sprockets in the chain case and the number of holes on the seeding disk.

Two of the 11 teeth sprockets are already set in the chain case and the other sprockets(9,10,13,14) is packed separately.

The seeding spot intervals may vary according to the soil quality and moving speed; therefore, test on the filed where the seeds do not roll to check the appropriate interval.

Spot Seeding Interval Chart (㎝)											
Sprocket on the discharge shaft	9	10	10	11	10	11	11	13	13	14	14
Sprocket on the driving wheel shaft	14	14	13	13	11	11	10	11	10	10	9
Number of holes on the disk	6	15	17	18	20	21	24	26	28	31	33	37
	8	11	13	14	15	16	18	19	21	23	25	27
	16	6	6.5	7	7.5	8	9	10	11	12	13	14
	Barly	More ← Seeding in a row → Less										

4. Cautions

① Do not move too fast, otherwise the seeding intervals may vary or the seeds may be damaged.

② Be sure to lubricate the Discharge Shaft, Drive Wheel Shaft, Firming Wheel Shaft, and other rotating parts before operation.

③ Check if soil or pesticide is piled between the Hopper bottom and the Seeding Disk and clean it.

5. Part List

(1) Hopper(upper) Assembly
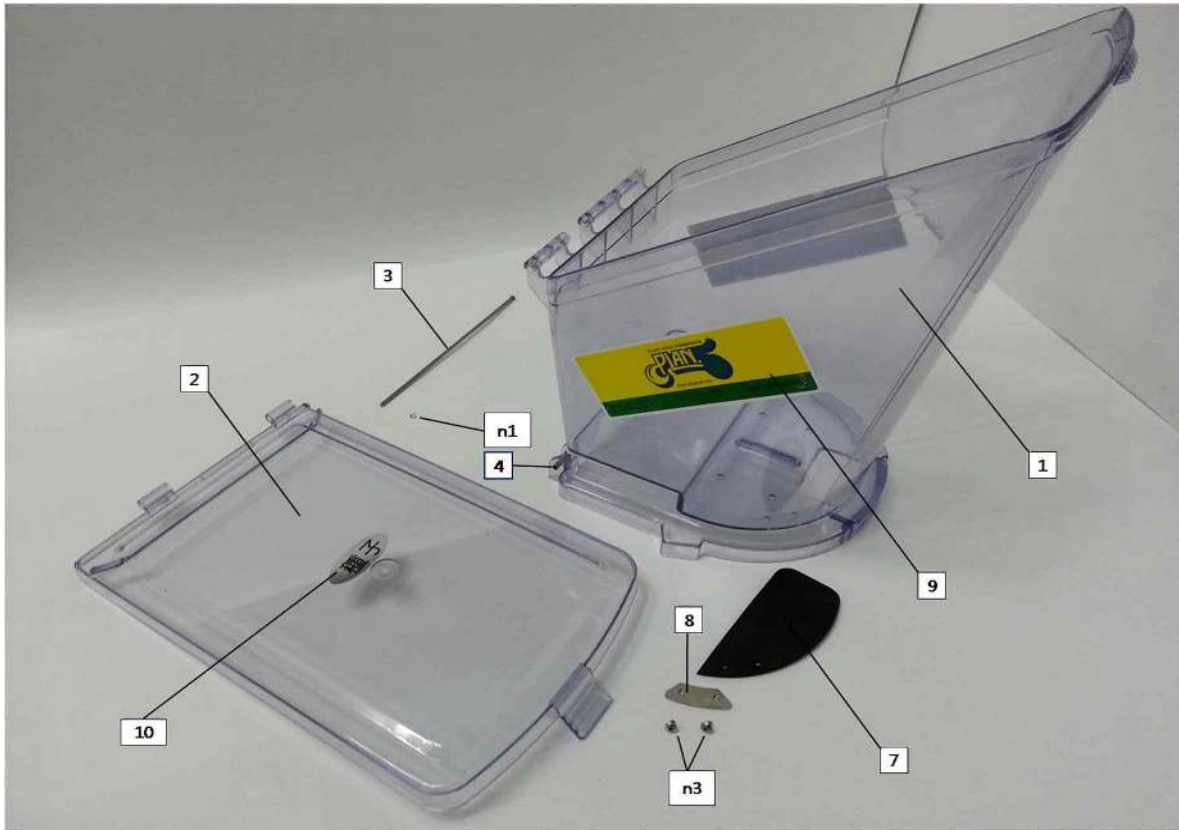
NO	Drawing Number	Name	Quantity	Remarks
0	JDT00-12-0100	Hopper(upper) Assembly	1	
1	JDT00-12-0101	Hopper(upper)	1	
2	JRX00-12-0102	Hopper Cover	1	
3	JDT00-12-0103	Hopper Cover pin	1	
4	JRX00-12-0219	Hopper Pin(small)	2	
7	JDT00-12-0107	Partition Rubber	1	
8	JDT00-12-0108	Fixing Plate	1	
9	JDT00-12-0109	CLEAN SEEDER Sticker	2	
10	JRX00-12-0112	Seed Sticker	1	

(2) Hopper(lower) Assembly

2. JDT 호퍼(하) 부
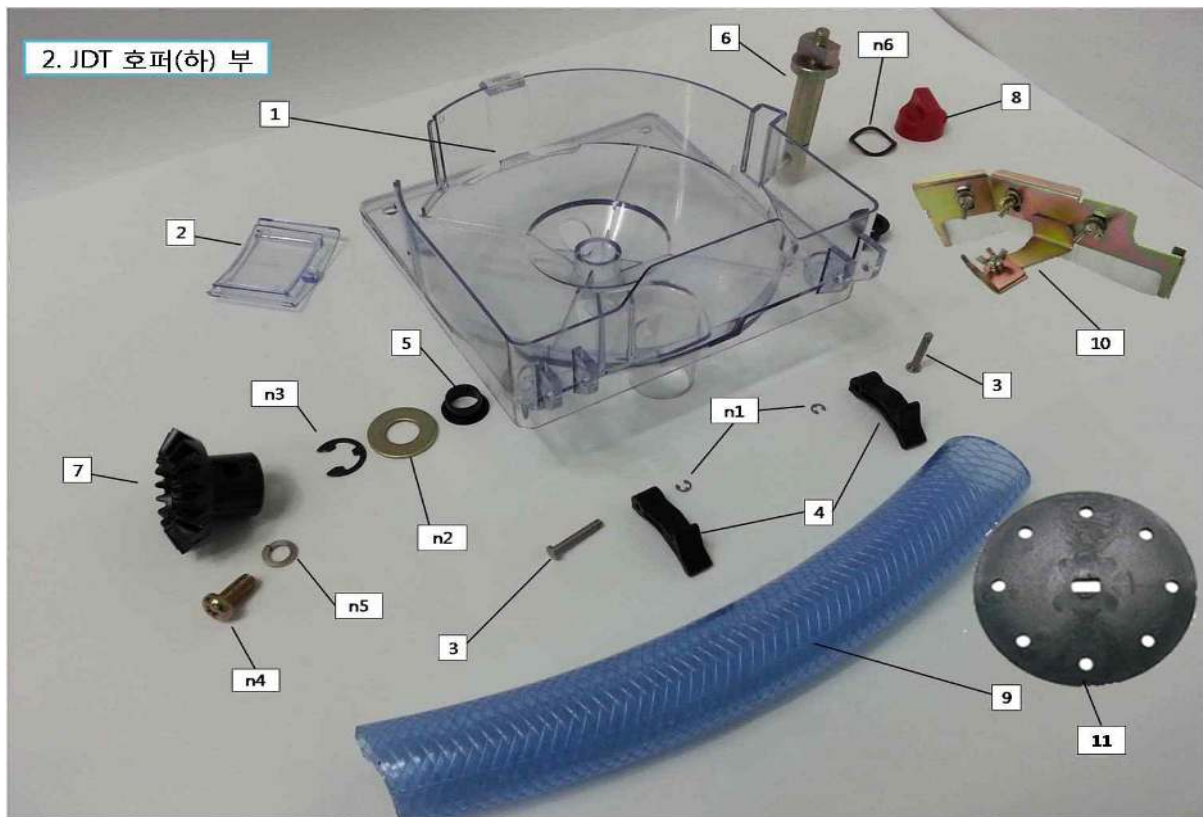
NO	Drawing Number	Name	Quantity	Remarks
0	JDT00-12-0200	Hopper(lower) Assembly	1	
1	JDT00-12-0201	Hopper(lower)	1	
2	JDT00-12-0202	Discharge Plate	1	
3	JRX00-12-0219	Hopper Pin(small)	2	
4	JRX00-12-0106	Grip	2	
5	JP100-11-0106	Oilless	2	
6	JDT00-12-0206	Bevel Gear Shaft(B)	1	
7	JDT00-12-0207	Bevel Gear(B)	1	
8	JDT00-12-0208	Disk Knob	1	
9	JDT00-12-0209	Hose	1	
10	JDT00-12-0210	Brush Assembly	1	
11	JDT00-12-0211	Seeding Disk	1	

(3) Plow Assembly
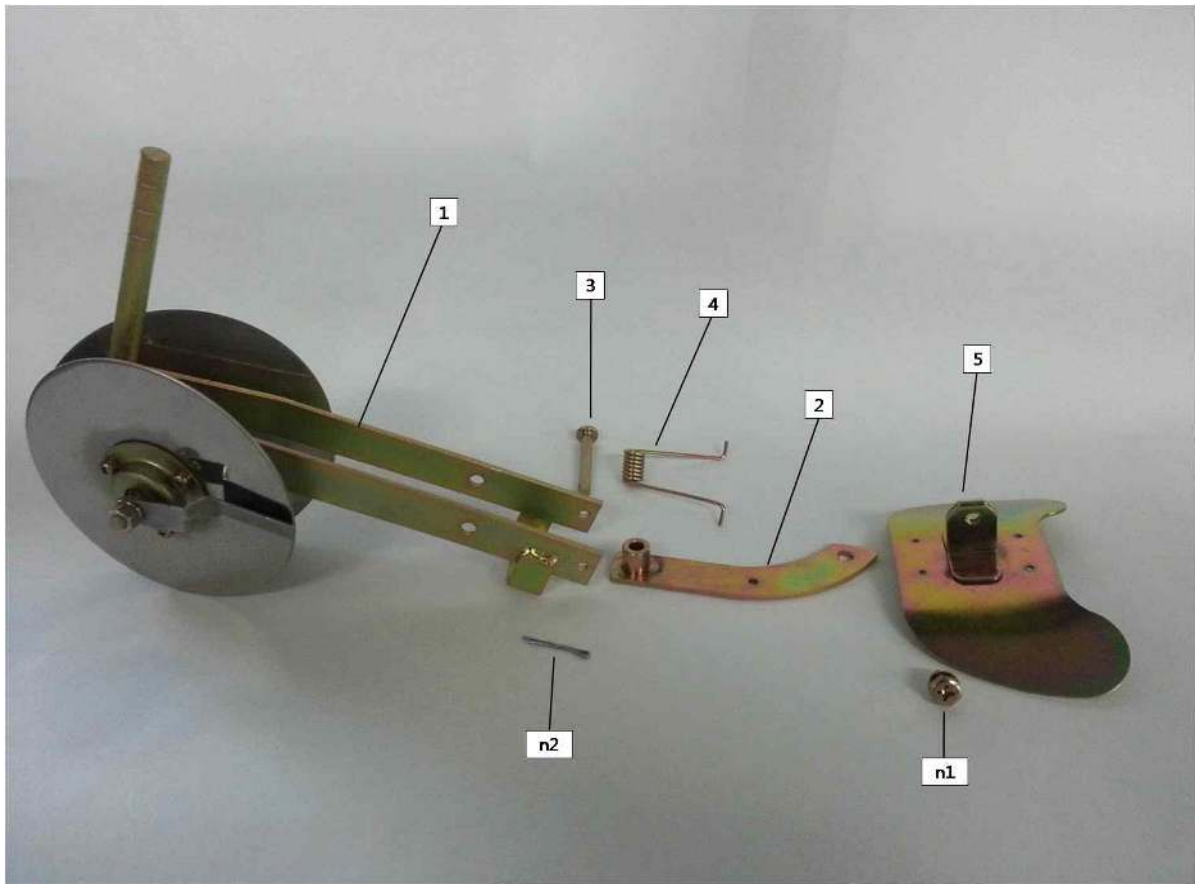
NO	Drawing Number	Name	Quantity	Remarks
0	JD100-12-0300	Plow Assembly	1	
1	JD100-12-0301	Disk Plow(JD-1)	1	
2	JP100-11-0302	Plow Lever	1	
3	JP100-11-0303	Plow Pin	1	
4	JP100-11-0304	Torsion Spring	1	
5	JD100-12-0305	Soil Covering Plate(120mm)	1	

(4) Driving Wheel & Suppressing Wheel
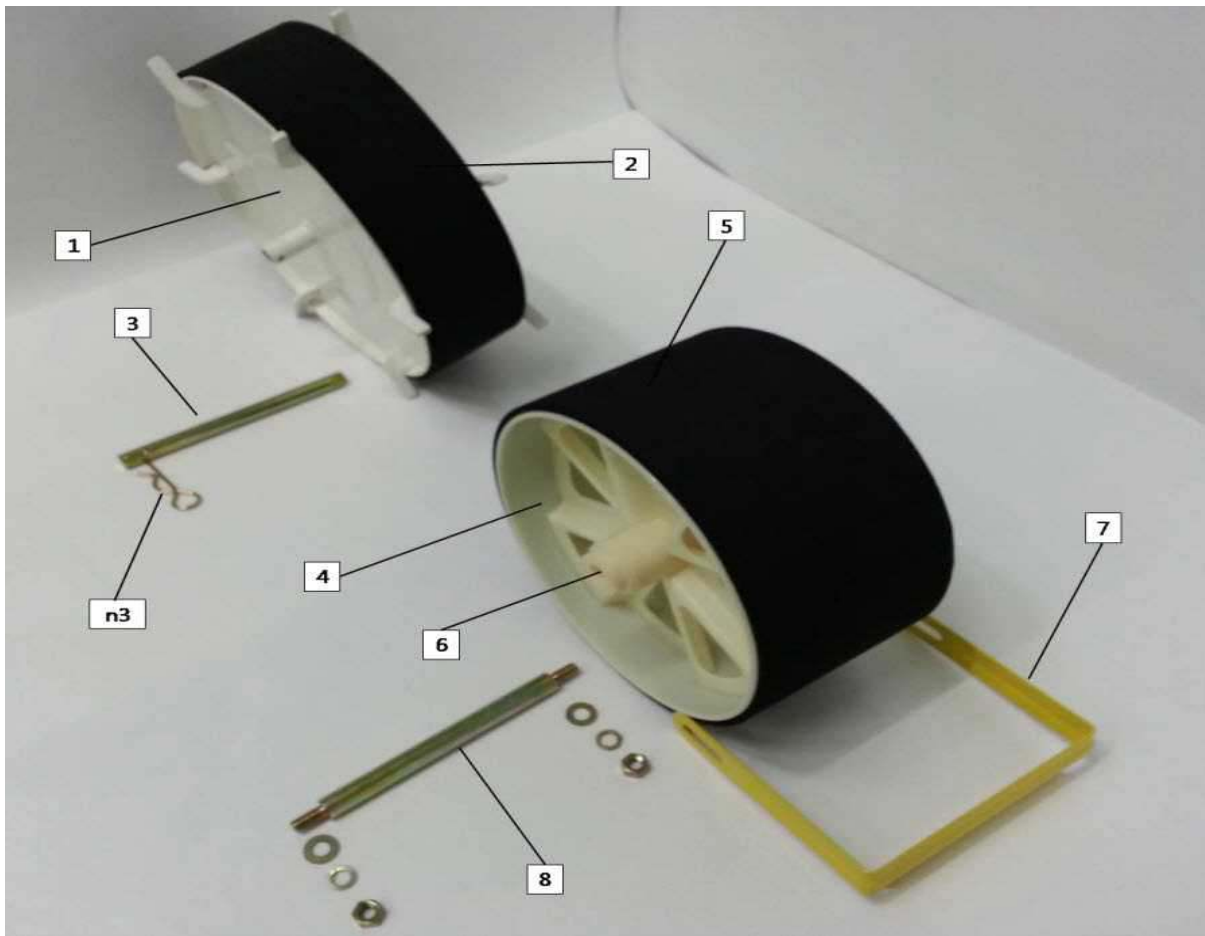
NO	Drawing Number	Name	Quantity	Remarks
0	JD100-12-0400	Driving & Suppressing Wheel Assembly	1	
1	JD100-12-0401	Driving Wheel	1	
2	JD100-12-0402	Driving Wheel Sponge	1	
3	JD100-12-0403	Driving Wheel Shaft	1	
4	JD100-12-0404	Suppressing Wheel(60mm)	2	
5	JD100-12-0405	Suppressing Wheel Sponge(120mm)	1	
6	JP100-11-0406	Spacer	3	
7	JD100-12-0407	Scraper	1	
8	JD100-12-0408	Suppressing Wheel Shaft	1	

(5) Chain Case Assembly

NO	Drawing Number	Name	Quantity	Remarks
0	JD100−12−0500	Chain Case Assembly	1	
1	JP200−12−0501	Chain Case(inner)	1	
2	JP100−11−0502	Sprocket 11T	2	
3	JP100−11−0503	Flat Spring	1	
6	JP200−12−0506	Chain Case(outer)	1	
7	JP100−11−0507	Knob	1	
9	JD100−12−0509	Spot Seeding Chart	1	
10	JP100−11−0510	Sticker	1	

(6) Frame Assembly
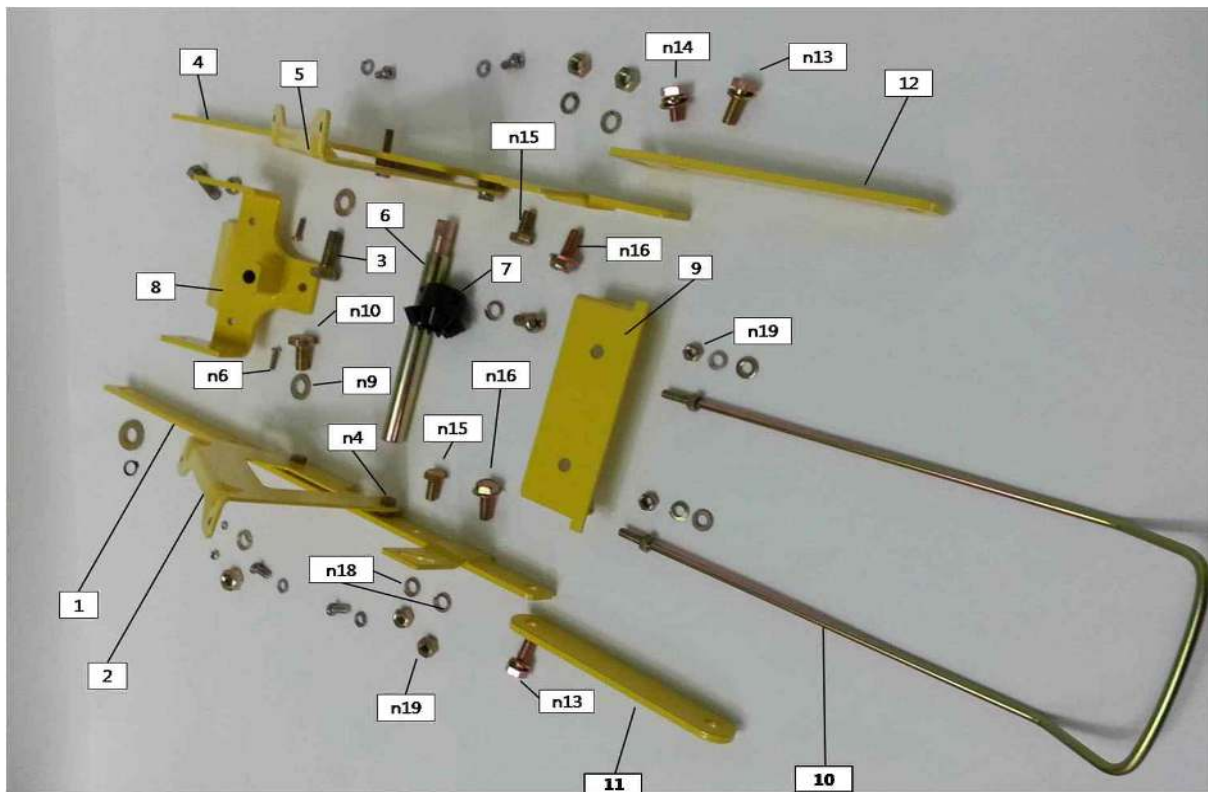
NO	Drawing Number	Name	Quantity	Remarks
0	JD100-12-0600	Frame Assembly	1	
1	JD100-12-0601	Main Side Frame(left)	1	
2	JD100-12-0602	Hopper Support(left)	1	
3	JP200-12-0504	Bolt	1	
4	JD100-12-0604	Main Side Frame(right)	1	
5	JD100-12-0605	Hopper Support(right)	1	
6	JD100-12-0606	Bevel Gear Shaft(A)	1	
7	JDT00-12-0603	Bevel Gear(A)	1	
8	JD100-12-0608	Plow Bracket	1	
9	JD100-12-0609	Lift Handle Bracket	1	
10	JP100-11-0411	Lift Handle	1	
11	JP100-11-0611	Suppressing Wheel Frame(left)	1	
12	JP100-11-0612	Suppressing Wheel Frame(right)	1	

(7) Handle Assembly

07. 핸들부
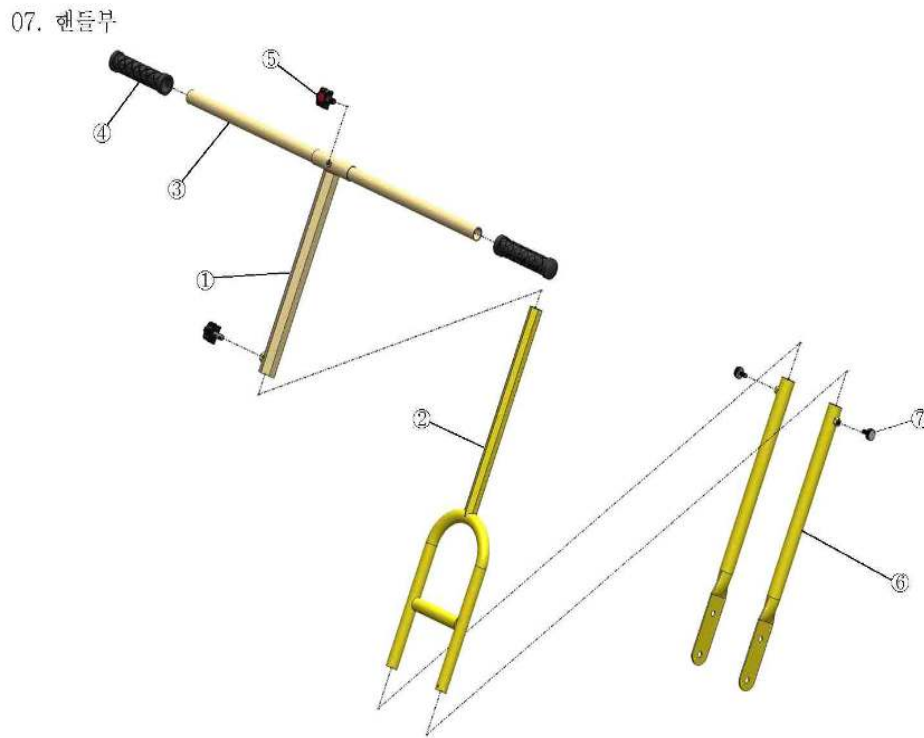
NO	Drawing Number	Name	Quantity	Remarks
0	JD100-12-0700	Handle Assembly	1	
1	JP100-11-0701	Handle(upper)	1	
2	JD100-12-0702	Handle(lower)	1	
3	JP100-11-0703	Handle Bar	1	
4	JP100-11-0704	Handle Grip	2	
5	JP100-11-0705	Knob	2	
6	JP100-11-0706	Handle B	2	
7	JP100-11-0507	Knob	2	

(8) Sprockets
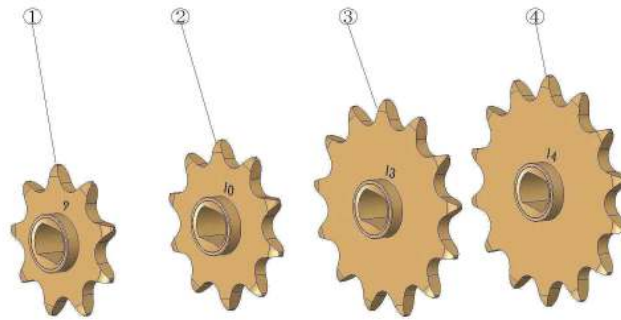
NO	Drawing Number	Name	Quantity	Remarks
1	JP100-11-0802	Sprocket 9T	1	
2	JP100-11-0803	Sprocket 10T	1	
3	JP100-11-0804	Sprocket 13T	1	
4	JP100-11-0805	Sprocket 14T	1	