

CLEAN SEEDER OPERATION MANUAL

MODEL JP-1

Please read this manual carefully before operating the seeder.

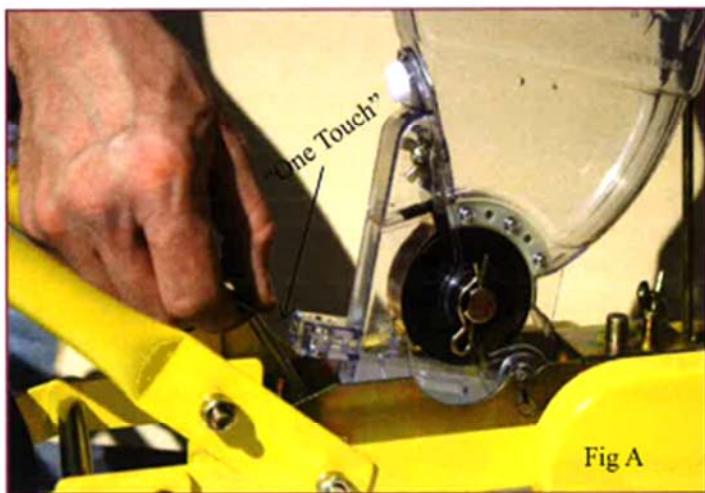


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ASSEMBLY & OPERATING INSTRUCTIONS

1. Check box for the seeder, 2 handle parts and package of sprockets. Your selected seed rollers will typically also be in this box.
2. Assemble handle by fastening middle section into the lower arms and tighten with the two thumb screws. Now put the top offset handle on. Adjust height and tighten knob. (See from cover for handle image) The top of front handle can be moved to one side to prevent walking in or on seed bed.



3. To remove the hopper from the seeder frame, simply push down on the "one touch" lever on the back side of the hopper. Lift the hopper up and out with our other hand (Fig A)

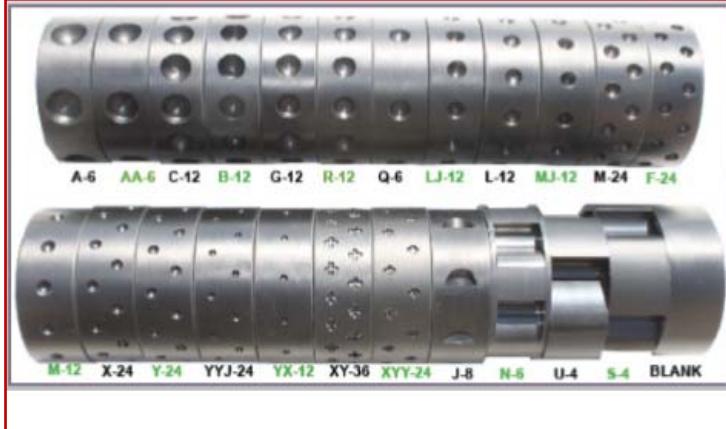


Fig B



Fig B1

4. The seed rollers are easy to install after removing the hopper. Loosen the white thumb screw and pull down on the roller case. Next remove the clip from the sprocket shaft and pull the sprocket shaft and pull the sprocket through the roller and re-install the clip pin. (Fig B) Adjust the brush so it lightly touches the seed roller to knock off extra seeds. Don't put it too tight as this will cause unnecessary wear. Swing the roller case back up and tighten thumb screw again. (Fig B1)



Selecting Seed Rollers

5. Individual seeds should be completely cradled within the hole of the roller, laying flush within the edge of the roller. If they are not flush, the seed could get knocked out by the brush, crack, or cause undo friction on the seed guide plate. It will also wear the guide plate quicker.
6. For larger seeds, such as larger corn, pea, or bean seeds remove the seed guide plate. (Fig. B2) When using the spreading shoes remove the seed guide plate. This will allow the seeds to fall more freely and also allow multiple seed to drop.
7. Our seed list (shown on last page) with the recommended rollers helps to select rollers required, however seeds can vary in size from one variety to another. In that case you may have to use a bigger or smaller roller. If your seed isn't on our list you can send us a sample and we will find a roller. We can custom make rollers by drilling deeper or larger holes.



Fig. B2

Setting Spacing



Fig. C

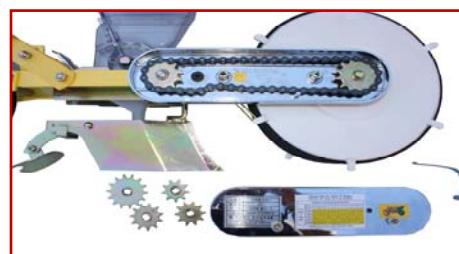


Fig. D

8. Spacing is determined by two factors. First, by the number of holes in the seed roller. Second, by using a combination of 6 sprockets that come with the seeder. By manipulating these sprocket combinations, the roller will spin faster or slower per ground speed, spacing the seeds closer or further apart. (Spacing Chart can be found in this manual or on the seeder chain guard)
9. First, remove the chain guard, (located by the front drive wheel) by loosening the two thumb screws. Look at the spacing chart on the chain guard.

Spacing Chart for JP Series Seeders										
* Spacing may change due to soil conditions										
Number of Teeth in Each Sprocket										
Rear Sprocket	14	14	13	13	11	11	11	10	10	9
Front Sprocket	9	10	10	11	10	11	13	13	14	14
Number of Holes in Seed Roller	3 Hole	20	18	17	15	14	13	11	10	9
	4 Hole	15	14	13	12	11	10	8	7.5	7
	6 Hole	10	9	8	7.5	7	6.5	5.5	5	4.5
	12 Hole	5	4.8	5	4	3.5	3	2.8	2.5	2.5
	24 Hole	2.5	2.5	2	2	1.8	1.5	1.3	1	0.5
	* Shaded area shows inches between seeds									

Example:
(See black circles)

If desired seed spacing is 7", use a 6 hole roller with a 11 tooth sprocket in rear and 10 in front.

10. The top two lines across are your sprocket combinations. (blue arrows) The number of holes in the roller corresponds with the red circle. The shaded area are the spacings available (in inches) by re-arranging the various sprockets.
11. Use the metal chain tightener when using the smaller sprockets. (Fig C - previous page) With the larger sprockets the chain tightener is not needed. Run the chain straight as shown in (Fig D previous page). If there is too much slack, run chain over stud for thumb screw, but without the chain tightener. Be sure to store chain tightener in a safe place when not using.
12. For shoe depth adjustment, loosen nut and then loosen bolt just ahead of hopper. Move shoe up or down and retighten bolt, then tighten nut against frame to lock shoe in place. * DO NOT OVER TIGHTEN (Fig E) The soil covering blade can be adjusted for more or less pressure by loosening the screw and resetting. (Fig F)

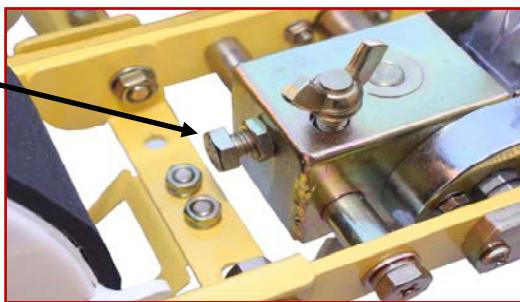


Fig. E



Fig. F

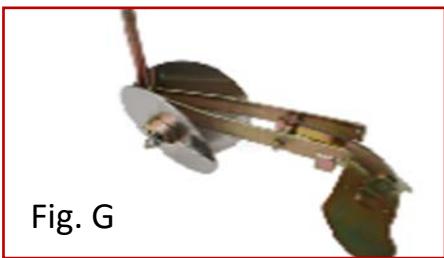


Fig. G

TP-1000D
Double Disk Opener
Used for trashy soil conditions

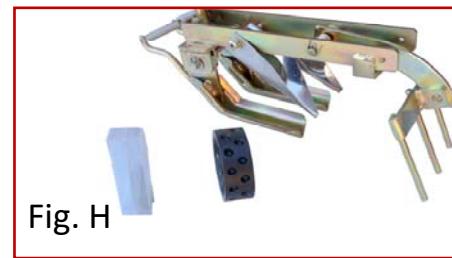


Fig. H

JPDS
Double Shoe
One row, two lines of seed at 2"



Fig. I

JSS5—4.72in
Spreading Shoe



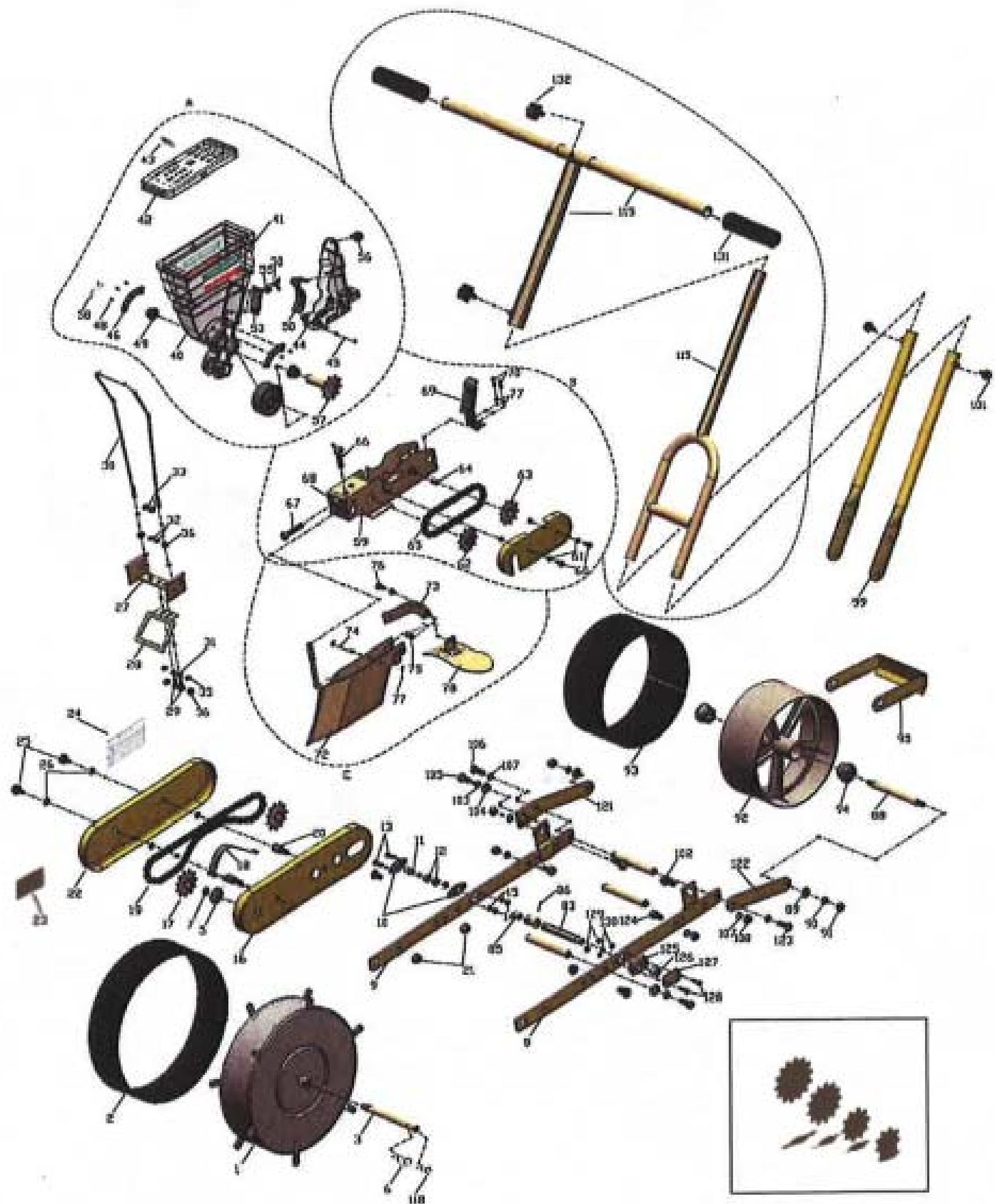
Fig. J

JSS3— 2.95in JSS2—2.36in
Spreading Shoe

12. The optional double shoe comes with a double shoe guide which has splitter in the middle. By using the 24 or 36 hole rollers, you can have two rows of seeds 2" apart. (Fig H)
13. Three spreading shoes are available—2.36", 2.95", and 4.72" wide. By using a 24 or 36" hole rollers (or paddle rollers the N,U or S) many seeds can be spread over a wide area. Used for greens and other crops where a dense amount of seed is needed.

General Tips

- ◆ Work soil so ground is loose and level. Roto-tilling is best.
- ◆ Optimal speed is about 1.5MPH—Actual seed spacing may vary depending on soil condition and operating speed.
- ◆ Check seed rollers for waste or residue build up.
- ◆ Clean roller.
- ◆ Check seed depth.
- ◆ Check for correct seed spacing in field when starting to seed. Seed should be dry.
- ◆ Lubricate chain and other moving parts (never the roller)
- ◆ Check brush and guide plate for wear. Larger seeds like corn or beans may bridge in hopper. Watch for it and tap hopper to keep seeds flowing.



Part List

Part #	Part Name
JJP A	Hopper Assembly
JJP B	Hopper Mtg & Drive Assembly
JJP C	Shoe Assembly
JJP 1	Drive Wheel
JJP 2	Drive Wheel Rubber
JJP 3	Drive Wheel Shaft
JJP 5	Flat Washer M12
JJP 6	Snap Pin 63L
JJP 7	E-Ring
JJP 8	Frame (L)
JJP 9	Frame *
JJP 10	Bearing Case
JJP 11	Clutch Shaft
JJP 12	Bearing
JJP 13	Bolt (+) M5 x 14
JJP 14	Hex Nut M5
JJP 15	Spring Washer M5
JJP 16	Chain Cover
JJP 17	Chain Gear 11T
JJP 18	Chain Tension Spring
JJP 19	Chain #410 x 50L
JJP 20	Chain Cover Hex Nut 12 x 32L
JJP 21	Flange Nut M8
JJP 22	Chain Cover
JJP 23	Profile Table
JJP 24	Spacing Chart
JJP 25	Knob M6 x 11L
JJP 26	Flat Washer M6
JJP 27	Scraper Stopper
JJP 28	Drive Scraper
JJP 29	Hex Bolt M6 x 12L
JJP 30	Lift Handle
JJP 31	Flat Washer M6 (JJP26)
JJP 32	Spring Washer M6
JJP 33	Hex Nut M6
JJP 35	Spring Washer M6
JJP 36	Hex Nut M6
JJP 40	Hopper
JJP 41	Clean Seeder Stickers
JJP 42	Hopper Cover
JJP 43	Spot Seeding Mark Sticker
JJP 44	Hopper Case
JJP 45	Hopper Case Shaft
JJP 46	Roll Rib
JJP 48	(+) Truss Bolt (SUS) M2 x 5
JJP 49	Oil less Bushing
JJP 50	Guide Plate
JJP 51	Guide Plate Protector Cover
JJP 53	Brush
JJP 54	Wing Bolt M5
JJP 55	Flat Washer M5
JJP 56	Knob M5
JJP 57	Hopper Sprocket 10T
JJP 58	Snap Pin 44L
JJP 59	Hopper Block
JJP 60	Hex Bolt M5
JJP 61	Spring Washer M5 (JJP15)
JJP 62	Hex Sprocket 10T
JJP 63	Idle Sprocket 10T
JJP 64	Du Bushing

Part #	Part Name
JJP 65	Chain
JJP 66	Wing Bold M6
JJP 67	Hex Bolt M8
JJP 68	Hex Nut M8 (JJP91)
JJP 69	Grip
JJP 70	Hex Bolt (SUS) M4
JJP 71	Spring Washer (SUS) M4
JJP 72	Shoe Less Wing
JJP 73	Shoe Arm
JJP 74	Shoe Head Pin
JJP 75	Torsion Spring
JJP 76	Sem's Bolt M8 x 20L
JJP 77	Sem's Bolt M8 x 15L
JJP 78	Soil Recovering Wing
JJP 79	Guide Shaft (Front)
JJP 80	Sem's Bolt M8 x 15L
JJP 81	Plate Hexagon Head Bolt
JJP 82	Guide Shaft (Back)
JJP 83	Hex Shaft 12 x 94.5L
JJP 84	Clutch Bearing Collar
JJP 85	One Way Clutch Bearing
JJP 86	Spring Pin
JJP 88	Packing Wheel Shaft
JJP 89	Flange Nut M8
JJP 90	Spring Washer M8
JJP 91	Hex Nut M8
JJP 92	Packing Wheel
JJP 93	Packing Wheel Rubber
JJP 94	Packing Wheel Spacer
JJP 95	Scraper
JJP 99	Lower T- Handle Assembly
JJP 101	Knob M6 x 11L
JJP 102	Flange Bolt M8
JJP 103	Spring Washer M8 (JJP90)
JJP 104	Flange Bolt M8
JJP 105	Spring Washer M8 (JJP91)
JJP 106	Hex Bolt M8
JJP 107	Spring Washer M8 (JJP90)
JJP 108	Hex Nut (JJP 91)
JJP 110	Sprocket 9 T
JJP 111	Sprocket 10 T
JJP 112	Sprocket 13 T
JJP 113	Sprocket 14 T
JJP 115	T-Handle Bar Assembly
JJP 118	Snap Pin 37L
JJP 121	Packing Wheel Arm (L)
JJP 122	Packing Wheel Arm (R)
JJP 123	Sem's Bolt M8 x 20L
JJP 124	Sem's Bolt M8 x 15L
JJP 125	Bracket
JJP 126	DU Bushing
JJP 127	Bracket Cover
JJP 128	Round Head Cross- Bolt
JJP 129	Hex Nut M5 (JJP14)
JJP 130	Spring Washer M5 (JJP15)
JJP 131	T-Handle Grip
JJP 132	Cap Knob
JJP 133	Hex Bolt M8
JPD SG	Double Seeding Guide
JPS G	Seed Guide