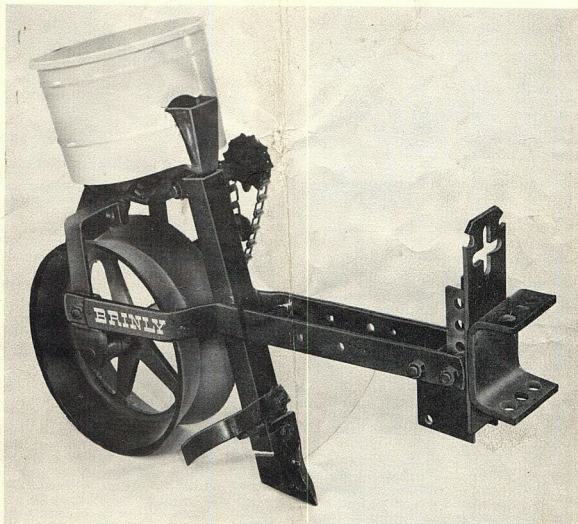


# **BRINLY**

## **MODEL KK-305 GARDEN PLANTER**



**Operating Instructions • Parts List**

**BRINLY-HARDY COMPANY, INC., P.O. Box 1116, Louisville, Ky. 40201**



# INTRODUCTION

## TRACTOR PREPARATION

The Planter is factory assembled and ready to mount on a standard sleeve hitch. Tractors equipped with category "O" 3 Pt. Hitch must have an HH-1000 "A" Frame Adaptor in order to use the planter.

Lower the tractor hitch. When tractor hitch is in lowered position, the top of mounting tube on hitch should be approximately 10" off the ground. If you are using the planter on a 3 pt. hitch (with "A" Frame Adaptor, or if your sleeve hitch is adjustable; adjust your hitch to obtain this 10" dimension in lowered position. Refer to Fig. 1)

Connect planter to tractor hitch. The hitch coupler on the planter is factory assembled and set in the middle adjusting holes which is suitable for most tractors and planting conditions. With tractor hitch adjusted as described above, the planter frame may be moved to any of the adjusting holes to obtain desired planting depth. Always make certain that the "stop bolt" in planter frame never comes in contact with the Hitch Plates during operation of planter. This will take the weight of the planter off the press wheel (at rear of planter) causing planter to drive erratically.

## PLANTING

The Planter is designed to accurately place the seed, (and fertilizer on units equipped with fertilizer accessory) in prepared soil, and then cover and press soil around seed. The spring loaded covering straps may be deflected "in" or "out" by hand for proper covering. Careful planting cannot be over-emphasized, for without it, a satisfactory germination cannot be obtained.

**SOIL PREPARATION** — Work soil into a fine tilth. A drag harrow after plowing and disking is recommended to level the seed bed. Remove large clods (over 1") and trash — weeds, vines, etc.

**PLANNING** — Plan ahead on desired method of cultivation — straddle row or between row cultivation. If straddle row is planned, then tractor wheel tracks can be used as a gauging means between planted rows (See Fig. II). This can be varied by tracking on inner, center, or outer portion of rear wheel track. **NOTE:** Corn can be straddle row cultivated until it reaches a height of 18" to 20". If cultivation is desired beyond this point, then corn rows should be spaced at distances which would allow tractor clearances between rows. For row spacings wider than tractor wheel tracks, use of a row marker accessory is recommended.

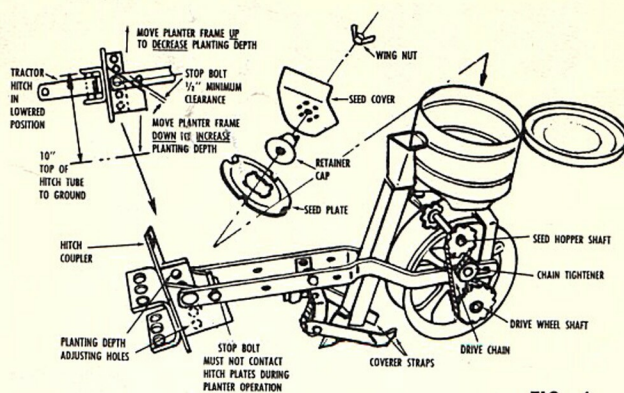


FIG. I

## OPERATION

### SEED PLATE AND SPROCKET SELECTION

You are furnished two interchangeable sprockets (a nine tooth and a twelve tooth) with which the distance between the seed drop is varied. The LARGER the sprocket used on the DRIVE WHEEL SHAFT, the CLOSER will be the seed. Refer to chart on page 3. The chart indicates the various crops which can be planted with each of the five seed plates furnished with your planter and the distance between seeds obtained by switching sprockets. Use the chart when deciding what and how to plant.

The chart is easy to understand and follow. As an example, let us suppose that a person wished to plant bunch beans. His seed dealer advised him to plant them 5" to 6" apart. The OR-100, 16-hole seed plate would be used, and by looking under "Seed Spacing in Inches" and locating the desired spacing, you see that the *nine tooth sprocket* would be used on the drive wheel shaft and the *twelve tooth sprocket* on the seed plate shaft.

Sometimes, depending on local planting practices, it may be necessary to depart from the chart. For example, suppose you are advised to plant baby lima beans 8" apart. Looking at the chart under "Seed Spacings in Inches", you see that distances obtainable with the OR-15, 6-hole plate are 15 3/4" and 9". Since the 8" distance is not listed, you would use the *12 tooth sprocket* on the drive wheel shaft for a 9" spacing. A rough rule of thumb is to use the next higher distance given on the chart if the seed dealer's recommended distance between seeds differs with the distance indicated on the chart. The individual must use his own judgment, however, if he has reason to believe it better to use a distance sprocket that will give a distance *slightly* less than the recommended for the local area.

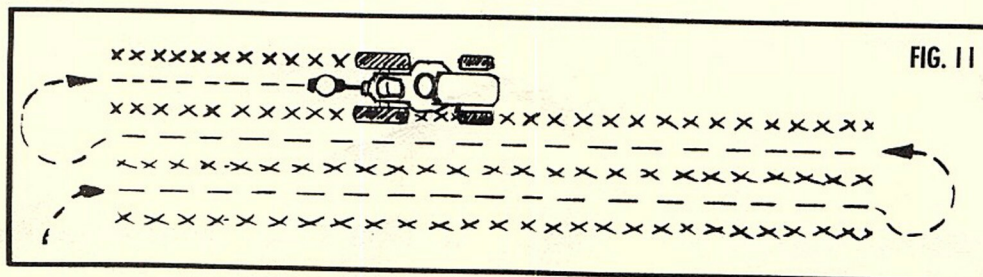


FIG. II



## ADJUSTMENT OF SEED PLATES

**Important!** Improper seed plate adjustment will cause planter to grind small seeds, rather than planting them.

It is recommended that the planter first be used with larger seeds as this will allow the planter (especially the seed hopper base) to "wear in" before using the small seed plate (OR-82), which requires careful adjustment.

(Refer to Fig. 1) To change seed plate:

- (1) Remove wing nut and lift off seed cover.
- (2) Remove seed plate retainer cap by rotating counter-clockwise.
- (3) Change seed plate and replace retainer cap (tighten snugly). When using the small seed plate (OR-82), tighten retainer cap until planter drive wheel drags slightly. (Continue rotating drive wheel while tightening plate.)
- (4) Reinstall seed cover, aligning projection on retainer cap with the *closest hole in seed cover*. Replace and tighten wing nut.
- (5) Roll the planter across the ground (approx. 3 feet).

*If drive wheel skips or does not turn easily* — Remove seed cover and *loosen* retainer cap one adjusting hole and reassemble wing nut. Repeat this adjustment, *one* adjusting hole at a time, (reinstalling the seed cover and wing nut each time), until drive wheel turns freely and the seed plate has a very small amount of "play" in it (but not an excessive amount). This adjustment is *very critical*, especially when planting small seeds.

*If seed plate is too loose* — Remove seed cover and tighten retainer cap *one* adjusting hole at a time (reinstalling the seed cover and wing nut each time) until proper adjustment is obtained.

Occasionally check plate tension during first 5 hours of use to insure proper planting of small seed.

## SPROCKET AND CHAIN ADJUSTMENT

Refer to Fig. 1. The 12-tooth and 9-tooth sprockets on your planter may be used on the drive wheel shaft or the seed hopper shaft depending on seed spacing required (See chart on page 3.) Sprockets are removed by moving chain tightener back, loosening set screws on sprockets, and sliding them off the shaft. When installing, *always* check sprocket alignment with a straight edge before tightening. **DO NOT OVER-TIGHTEN CHAIN TIGHTENER.**

## DISTANCE CHART FOR ALL PLATES AVAILABLE

Sprocket for Drive Wheel Shaft	B-418 9 tooth	B-424 12 tooth
No. of cells in Plate	Seed spacing in inches	
2	57	32
6	19	10
8	14	8
10	11½	6½
16	7½	4
28	4	2¼
32	3½	2
50	2	1

## SEED PLATES

The following plates come with your planter; crops planted are:

OR-15 (6 cell) — Medium flat corn, squash, cucumber, baby lima, cantaloupe, watermelon, sunflower.

OR-100 (16 cell) — Bunch bean, medium lima, pea, small and medium peanut, large kernel corn.

OR-126 (16 cell) — Okra, beet, tomato, pop corn, sugar beet, milo.

OR-72 (32 cell) — Small bean, (soy bean — drill medium quantity), acid delinted cotton (2 per hill), small young hybrid corn, field pea.

OR-82 (50 cell) — Asparagus, turnips, lettuce and similar small seeds over ⅜" dia.

Refer to parts list on back page for other seed plates available.

## LIMITED WARRANTY

We warrant each Brinly Product sold by us to be free from manufacturing defects in normal service for a period of one (1) year commencing with delivery to the original retail user.

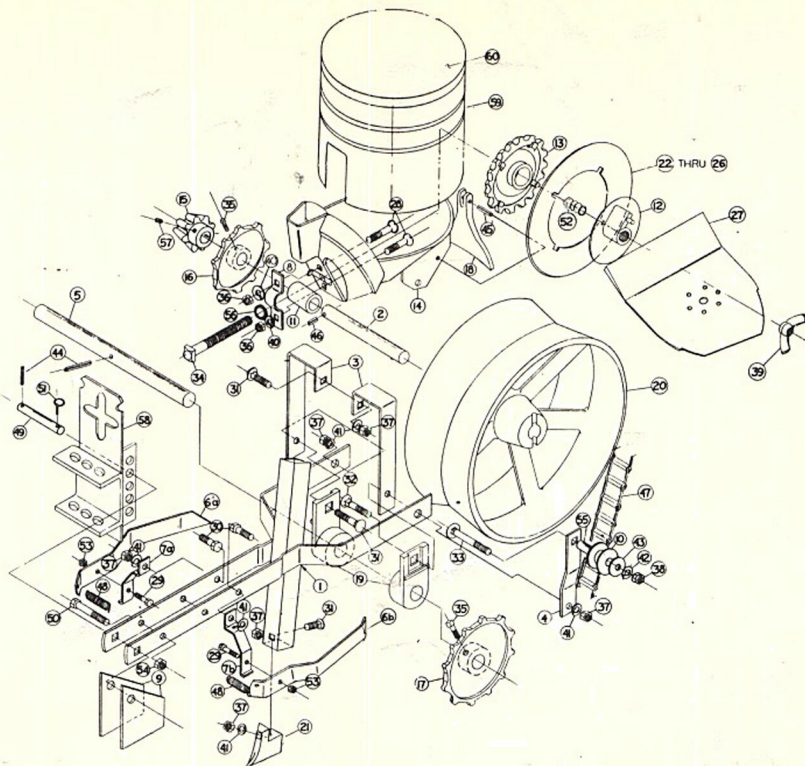
Our obligation under this warranty is expressly limited, at our option, to the replacement or repair at Brinly-Hardy Company, (340 E. Main Street, Louisville, Ky. 40202) of such part or parts as inspection shall disclose to have been defective. This warranty does not apply to defects caused by damage or unreasonable use (including failure to provide reasonable and necessary maintenance) while in the possession of the consumer.

For parts and service, see your local dealer. Use part NAME and NUMBER when ordering.

WE SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES OF ANY KIND, including but not limited to, consequential labor costs or transportation charges in connection with the replacement or repair of defective parts.

ANY IMPLIED OR STATUTORY WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. We make no other express warranty, nor is anyone authorized to make any in our behalf.





## PARTS LIST

Ref. No.	Part No.	Part Name
1	20-674	Chassis Assembly
2	30-351	Seed Hopper Axle
3	30-352	Hopper Arm (Upright)
4	20-670	Chain Tightener Arm
5	20-671	Press Wheel Axle
6a	20-726 RH	Seed Coverer
6b	20-727 LH	Seed Coverer
7a	20-728 RH	Hanger Arm
7b	20-729 LH	Hanger Arm
8	A-1002	Bearing Strap
9	20-725	Hitch Plate
10	CT-1	Chain Tightener Roller
11	45-677	Bearing Tube (Seed Shaft)
12	30-353	Seed Plate Retainer Cap
13	U-72	Seed Plate Gear
14	30-343	Seed Hopper (Casting)
15	U-70-1	Axle Gear (Bottom)
16	B-418	Sprocket (9 Tooth)
17	B-424	Sprocket (12 Tooth)
18	20-724	Wheel Scraper
19	30-356	Wheel Bearing Block
20	20-730	Press & Drive Wheel
21	20-723	Opening Foot
22	OR-100	Seed Plate (16 Cell — Large Seed)
23	OR-126	Seed Plate (16 Cell — Small Seed)
24	OR-72	Seed Plate (32 Cell)
25	OR-15	Seed Plate (8 Cell)
26	OR-82	Seed Plate (50 Cell)
27	30-402	Seed Hopper Divider
28	25M0812P	Flat Head Mach. Screw — $\frac{1}{4}$ " x $\frac{3}{4}$ "
29	1M0814P	Hex Bolt — $\frac{1}{4}$ " x $\frac{7}{8}$ "
30	1M1016P	Hex Bolt — $\frac{5}{16}$ " x 1"
31	10M1020P	Carriage Bolt — $\frac{5}{16}$ " x $1\frac{1}{4}$ "
32	10M1024P	Carriage Bolt — $\frac{5}{16}$ " x $1\frac{1}{2}$ "
33	10M1236P	Carriage Bolt — $\frac{3}{8}$ " x $2\frac{1}{4}$ "
34	5M1248P	Square Head Bolt — $\frac{3}{8}$ " x 3"
35	55M1007P	Set Screw — Square Head — $\frac{5}{16}$ " - 18 x $\frac{7}{16}$ "
36	30M0800P	Hex Nut — $\frac{1}{4}$ "
37	30M1000P	Hex Nut — $\frac{5}{16}$ "
38	30M1200P	Hex Nut — $\frac{3}{8}$ "
39	R-311P	Wing Nut — $\frac{3}{8}$ "
40	40M0800P	Lock Washer — $\frac{1}{4}$ "
41	40M1000P	Lock Washer — $\frac{5}{16}$ "
42	40M1200P	Lock Washer — $\frac{3}{8}$ "
43	O-80	Flat Washer — $\frac{3}{8}$ "
44	K-178	Roll Pin — $\frac{1}{4}$ " x $1\frac{1}{4}$ "
45	K-179	Roll Pin — $\frac{1}{4}$ " x $1\frac{1}{2}$ "
46	K-180	Roll Pin — $\frac{3}{16}$ " x $\frac{3}{4}$ "

Ref. No.	Part No.	Part Name
47	K-181	Chain, #25 (29-32 Links)
48	30-399	Spring — Coverer
49	20-734	Chassis Pivot Pin
50	1M1248P	Hex Bolt — $\frac{3}{8}$ " x 3"
51	30-237	Klick Pin
52	30-396	Spring — Seed Hopper
53	33M0800P	Hex Lock Nut — $\frac{1}{4}$ "
54	33M1200P	Hex Lock Nut — $\frac{3}{8}$ "
55	J56-3	Bearing — Roller
56	K-182	"O" Ring (Rubber)
57	V-623	Set Screw — $\frac{5}{16}$ " - 18 x $\frac{3}{8}$ "
58	K-151	Hitch Assembly
59	30-397	Seed Hopper Assembly
60	50-530	Lid Assembly

## OPTIONAL SEED PLATE LIST

Cells	Part No.	Description
8	OR-11	Corn, small flat
6	OR-12	Corn, medium flat
8	OR-15	Corn, medium flat
6	OR-27	Corn, large flat
8	OR-28	Corn, large flat
6	OR-40	Corn, extra large flat
8	OR-41	Corn, extra large flat
8	OR-38	Corn, small round
8	OR-23	Corn, medium round
8	OR-36	Corn, large round
16	OR-93	Small peanut — 3-5 seed A. D. cotton
16	OR-100	Medium peanut
10	OR-112	Large peanut — 5-8 seed A. D. cotton
10	OR-102	Extra large peanut
16	OR-126	Milo, Sorghum and Popcorn
32	OR-72	Small bean: soybeans 1-2 per cell; A. D. cotton 2 per cell; field peas 2 per cell
32	OR-71	Medium beans: soybeans 2 per cell; A. D. cotton 3 per cell; field peas 3 per cell
28	OR-81	Large beans: snap beans; soybeans 3 per cell; A. D. cotton 3-4 per cell; field peas 4 or more per cell
8	OR-53	Use when it is desirable to plant 5" to 18" apart in hill — Drops 3 to 6 seeds per hill
8	OR-75	Bush lima
2	OR-50	Watermelons
6	OR-131	Cantaloupe, cucumbers, squash
50	OR-82	Asparagus, turnips and similar small seed