

INTRODUCTION

USE OF ROW MARKER

The function of the planter row marker is to help the operator maintain a more accurate or constant row spacing. A constant crop row spacing will make for simpler and more effective cultivation, especially when cultivating between rows.

Before planting any type of crop, consideration should be given to the subsequent cultivating operation. Will the crop be cultivated straddle row or between rows? Tractor wheel spacing will definitely be a factor in determining row spacing; when planting tall growing crops such as corn, a minimum of 10" over largest tractor width (usually outside of rear tractor wheels) should be allowed for easy maneuvering between rows. For example, if the widest tractor width is 30". Add 10"; 30 plus 10 equals 40". This would be the recommended minimum row spacing for corn.

When planting low bushy type crops such as bunch beans, etc., and straddle row cultivation is contemplated, row spacing should be within plus or minus 4" of rear tractor wheel center-to-center spread. For example, if rear wheel center-to-center spread is 24"; a row spacing of 20" to 28" would be recommended for crops to be straddle row cultivated. (i.e. 24 minus 4" equals 20" or 24 plus 4" equals 28").

OPERATION

ADJUSTING MARKER

Referring to diagram Figure 3, of planter marker. If a row spacing of 40" is desired; first, measure tractor front wheel center-to-center spacing (S). For example, 24". Take one half of 24" — this equals 12". (S/2) 24/2 equals 12. Subtract 12" from desired row spacing of 40" to obtain (X) marker setting. Example: X equals 40 minus 12 or 28". Set shovel to make a mark 28" from center line of planter. After first planting pass, follow mark with R.H. or L.H. front wheel of tractor according to direction of travel. After following mark a short distance on second row, check actual planted space. Slight adjustment of marker shovel may be necessary to obtain actual 40" spacing. Constant and accurate row spacing will depend on how carefully the operator follows row mark with tractor wheels. Do not attempt to plant at excessive speed. Turning to watch planter while moving will usually cause operator to run off course.

At the end of each planted row be sure to store marker arm in transport position, prior to lifting planter. See sketch Figure I. Sketch A shows marker arm stored in transport position. Sketch B shows marker arm in working position.

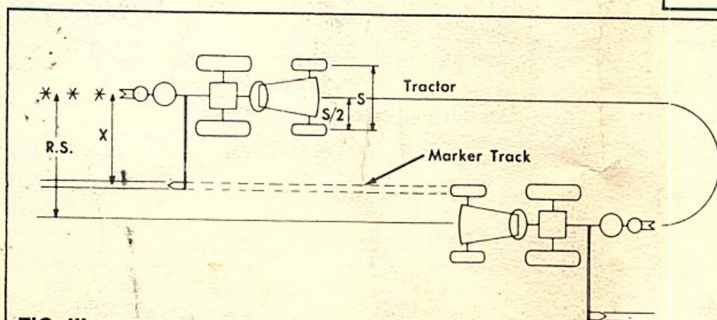


FIG. III

ASSEMBLY

Assemble Row Marker as shown in diagram.

- (1) Attach Marker Bars (1) to each side of Hitch Assembly (on KK-305 Planter) at slotted end as shown. Secure with two $\frac{3}{8}$ " x $1\frac{1}{4}$ " Carriage Bolts (4) and Lock Nuts (6). Adjust Lock Nuts so that Marker Bars move freely on Hitch Plate.
- (2) Select hole in Marker Bars which will give desired row spacings and insert Marker Extension (2) between Marker Bars. Secure with $\frac{3}{8}$ " x $1\frac{1}{4}$ " Carriage Bolt (4) and Lock Nut (6).
- (3) Attach Marker Shovels (3) to ends of Marker Extension with bent tips pointing toward REAR of Planter as shown. Secure each with $\frac{3}{8}$ " x $1\frac{1}{4}$ " Plow Bolt (5) and Lock Nut (6).

Caution — Do not position Marker Shovels with Points forward. They might hang up on an obstruction and damage Marker Assembly.

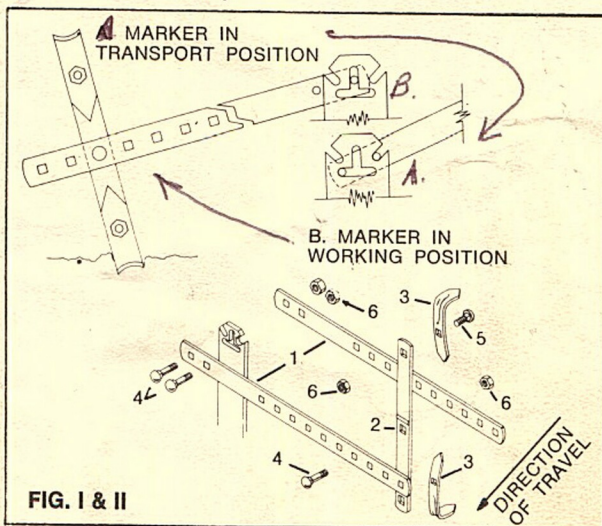


FIG. I & II

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	QUANTITY
1	K-154	Marker Bar	2
2	K-155	Marker Extension	1
3	K-168	Marker Shovel	2
4	10M1220P	Carriage Bolt, $\frac{3}{8}$ " x $1\frac{1}{4}$ "	3
5	15M1220P	Plow Bolt, $\frac{3}{8}$ " x $1\frac{1}{4}$ "	2
6	B-1675P	Hex Lock Nut, $\frac{3}{8}$ "	5

R.S. — Desired Row Spacing (inches)
 X — Marker Setting (inches)
 S — Front Wheel Center to Center Spread (inches)
 S/2 — $\frac{1}{2}$ Front Wheel Center to Center Spread (inches)
 X = R.S. — S/2

Marker should always be set towards unplanted area. Follow Planter Row Mark with R.H. Front Wheel when making a R.H. turn at end of field. Follow Planter Row Mark with L.H. Front Wheel when making a L.H. turn at end of field.

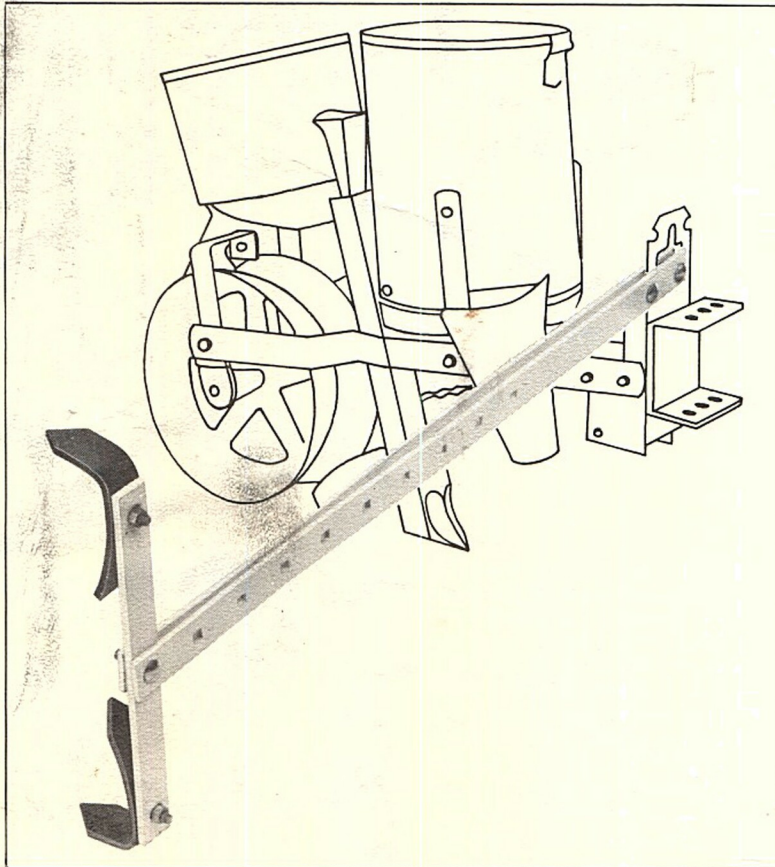
BRINLY



MODEL KK-310

ROW MARKER ATTACHMENT

For use with Brinly Model KK-305 Garden Planter



Assembly Instructions Operating Instructions • Parts List

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.

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