

# INSTALLATION INSTRUCTIONS - 115500-075 Rev. A

## Totally Tubular Fertilizer Tube Installation

### Models: 3000 Series KINZE Planters

#### BEFORE INSTALLATION

**IMPORTANT:** For safety information, refer to the system and machine manuals.

**NOTE:** Due to the variances in KINZE® planters, two sizes of bolts have been provided: 1 in and 7/8 in; use the bolt that best fits your planter.

**IMPORTANT:** The fertilizer tubes were not meant to be used on planters that are planting deeper than 2 inches. Producers planting deeper than 2 inches may experience rubbing issues on areas of the tube.

It is recommended to replace the disc openers when installing the fertilizer tubes.

#### PARTS LIST - TT-CAPS-301

Description	Qty
Hose Clamp, 5/16 x 1-1/2 Dia	1
FH Cap Screw, 1/4-20 x 7/8 in	1
FH Cap Screw, 1/4-20 x 1 in	1
Cable Tie, 8 in Black	1

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Kinze Starter Fertilizer Placement Tube Part #TT301 is patented by Totally Tubular MFG., Inc

## INSTALLATION

1. Remove the depth gauge wheels and disc openers.

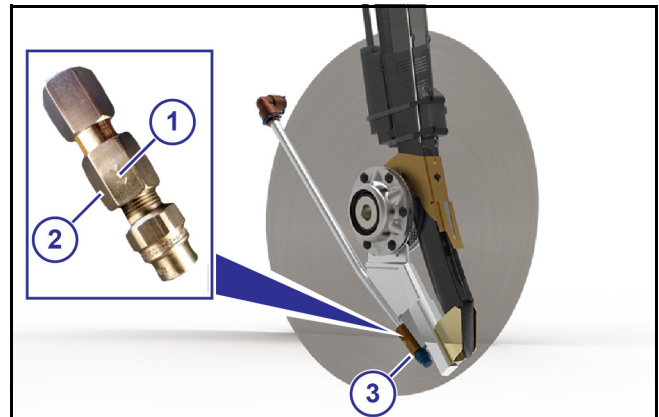
**IMPORTANT:** Make sure to note the correct placement of the shim(s).

2. Install the check valve or coupler.

**FIGURE 1:** Check Valve Installation

- a. Make sure that the arrow (1) on the check valve is pointing downward to match the direction of the fluid flow.
- b. Make sure that machined flat sides (2) on the outside of the check valve and the tip align.
- c. Make sure that the assembled check valve/tip combo (3) is aligned with the flat surfaces facing the disc surface after installing the combo on the fertilizer tube.

**IMPORTANT:** Failure to make sure that the flat surfaces are aligned parallel to the disc surface will result in damage to the check valve and spray tip.



**FIGURE 1**

**FIGURE 2:** Spray Tip Installation

- a. Make sure that the machined flat sides (1) of the spray tip are aligned with the flat surfaces on the opener disc. Failure to do this will cause damage to the spray tip.

All flat surfaced tips must be installed so that the flats are parallel to the opener discs to prevent rubbing against the discs.

Several tip sizes are available. See your planter manufacturer for assistance in selecting the correct tip for your application.

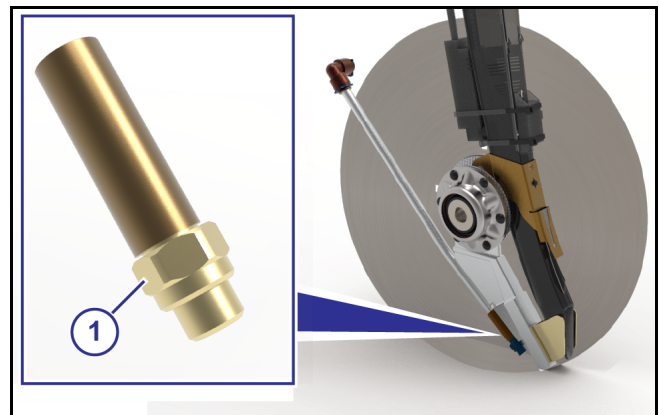
3. Find the 1/4 in casting hole in the shank.

The location is approximately 1 in above and 2 in to the front of the threaded disc opener attachment hole.

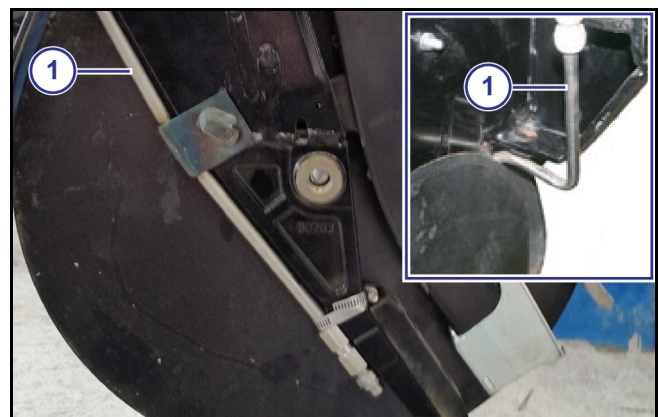
4. Drill out the casting hole to 9/32 in.

**FIGURE 3:**

5. Lift the placement tube (1) into place.



**FIGURE 2**



**FIGURE 3**

## FIGURE 4:

6. Thread the cap screw (1) into the weld nut on placement tube mounting tab.
7. Install hose clamp (2) around the shank and placement tube, just above the inside disc scraper, to hold the tube against the bottom of the shank.
8. Tighten the cap screw.

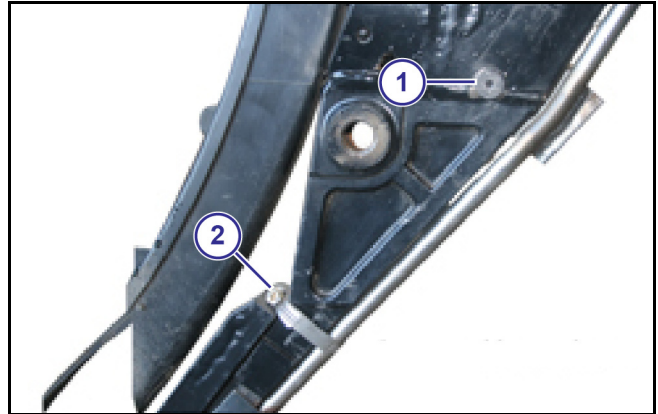


FIGURE 4

## FIGURE 5:

9. Fasten the fertilize tube to the planter with the cable tie (1).
10. Install the disc openers.

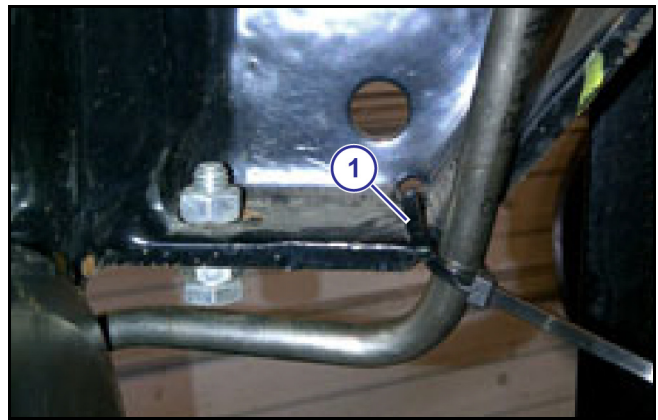


FIGURE 5

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**NOTES**