

# DUAL PLACEMENT FERTILIZER TUBES IN-BETWEEN

## Case IH 2100

Before working on your planter or drill

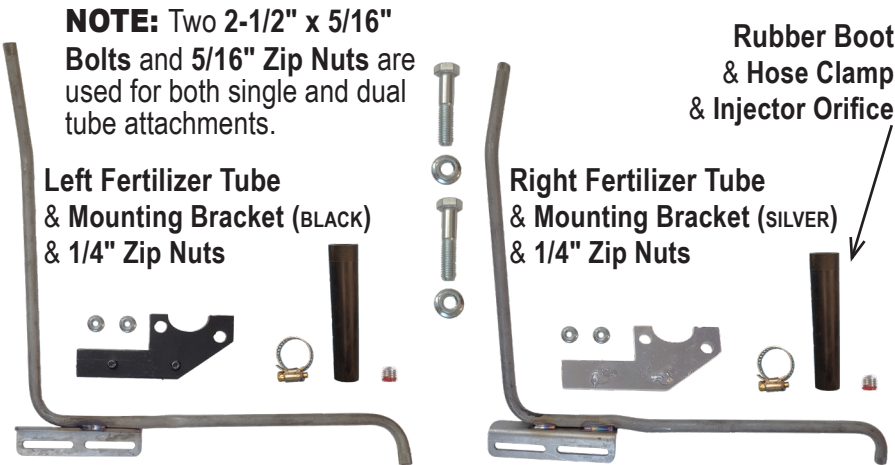
**DANGER:** When storing or working on the planter always install cylinder stops or place the planter on stands to prevent personal injury or damage to the attachments.

**PLEASE:** Read instructions completely and verify all package contents before beginning installation

**NOTE:** These fertilizer tubes will fit all versions of Case IH 2100 tail sections.

! Make sure the lead opening disc and lead covering disc are on the same side of each row unit.

! Due to variations in the manufacturing process, some tweaking to the tube and/or mounting locations may be necessary to properly align injector nozzle to the furrow.



Case IH 2100 In-Between Fertilizer Tubes Package Contents (per single row)		
Item	Qty DUAL	SINGLE
Fertilizer Tube (Right and/or Left) . . . . .	2	1
Mounting Bracket R/L with welded-in bolts . . . . .	2	1
5/16" x 2-1/2" Bolt . . . . .	2*	2
5/16" Zip Nut . . . . .	2*	2
1/4" Zip Nut . . . . .	4	2
Rubber Boot . . . . .	2	1
3/4" #6 Hose Clamp . . . . .	2	1
Instruction Sheet . . . . .	1	1

*\*Dual kits may contain an extra two 5/16" bolts and zip nuts if kits are processed as single side*

Injector Orifice Package Contents (per single row—use if needed)		
Item	Qty DUAL	SINGLE
Injector Orifice (High Pressure Nozzle)* . . . . .	2	1
<i>*Orifice sizes vary according to planned gallons per acre (gpa) and speed (mph). Specify when ordering.</i>		
Orifice & Fertilizer Chart . . . . .	1	1

### INSTALLING THE INJECTOR ORIFICE & RUBBER BOOT

#### STEP #1:

For ease of installation, install the injector orifices into the tubes prior to attaching the tubes to the planter.

Screw the proper sized injector orifice into the bottom of the tubes using a 5/32" Allen wrench. The orifice end with the small hole is screwed in towards the inside of the tube, with the colored end towards the outside.

Don't over tighten the set screw orifice, but ensure it's tight enough to hold in place.

**NOTE:** If orifice starts hard, use a 5/16-24 standard tap threader to clean out the tube's threads.



#### STEP #2:

After you've installed the injector orifices, slide the rubber boot up over the ends of the tube. Secure in place with small hose clamp.

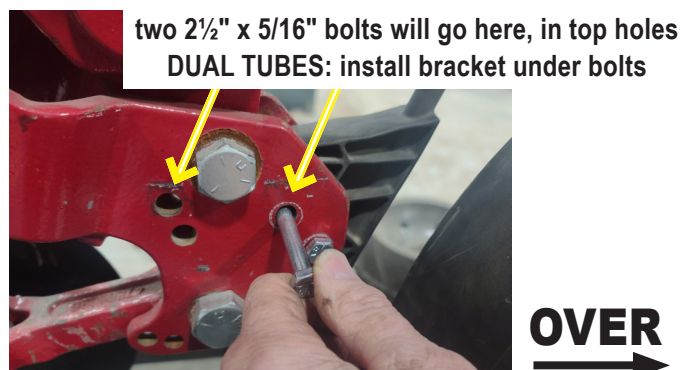
**NOTE:** You can cut off the ends of the boots if they're too long.

### INSTALLING THE MOUNTING BRACKET

#### STEP #3:

Pull out the top front pins, as depicted in photo.

Put the two 2-1/2" x 5/16" through the top holes as shown.



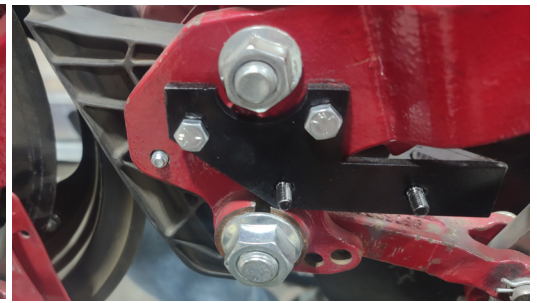
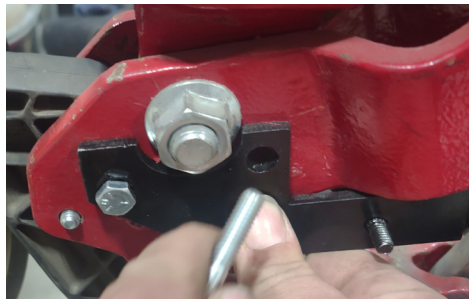
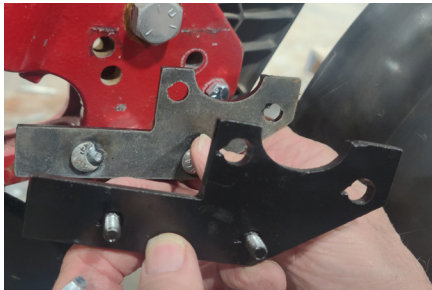
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### STEP #4:

There are **black Left-hand** and **silver Right-hand** mounting brackets.



Slide the 2-1/2" x 5/16" bolts in from the outside through one of the brackets. The welded-in bolts should be in the position shown, pointing outwards and towards the back.

**NOTE:** It does not matter which side you do first.

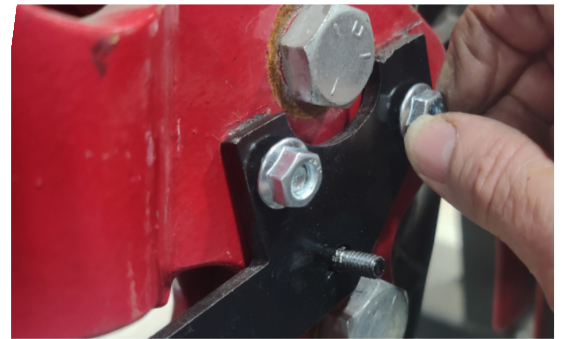
### STEP #5:

Slide the other bracket on over the bolts from the other side of the planter.

**NOTE:** Skip this part of the step for single tubes.



Secure brackets in place with the two 5/16" zip nuts.



### STEP #6:

Use washers as needed between the mounting bracket and fertilizer tube so that the end of the tube is lined up directly behind the concave or straight covering disc.

See step #10 on page 4 for more information on changing covering discs.

You may need to add a washer on the front/forward bolt in order to line the tube up with the slice cut by the cover disc.

The tube should be spaced far enough to the side of the cover disc so that it will not rub on the disc.



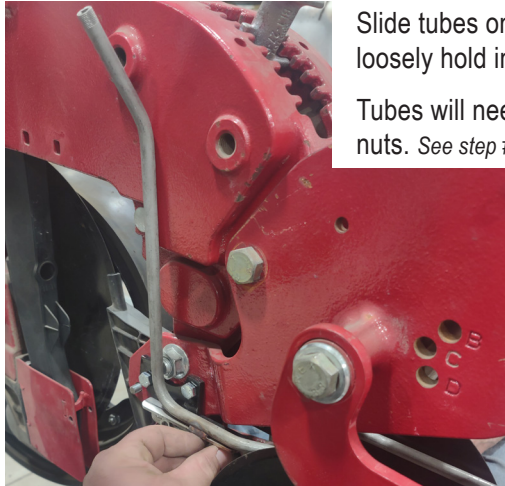
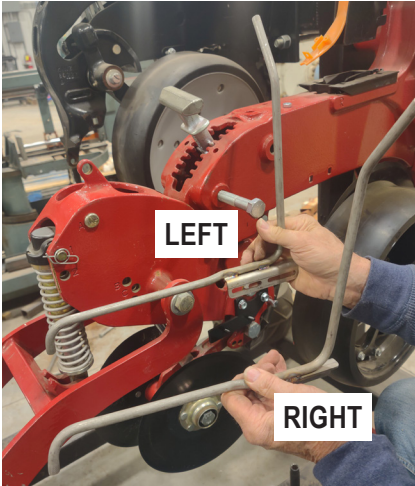
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### INSTALLING THE FERTILIZER TUBES

**STEP #7:** There are Left-hand and Right-hand fertilizer tubes. The mounting tabs are positioned on the insides.



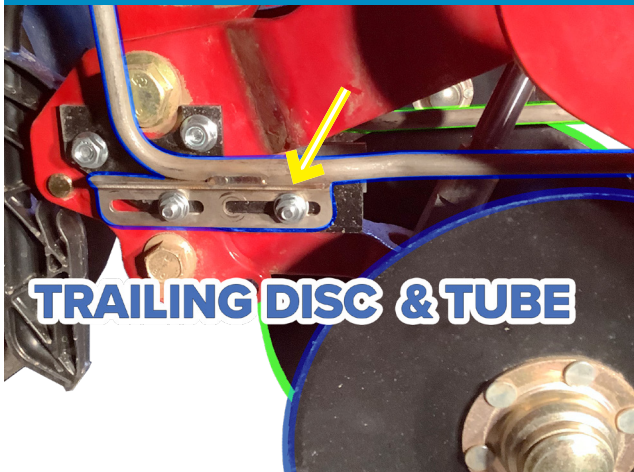
Slide tubes on over the bracket's welded-in bolts, and loosely hold in place with two 5/16" nuts.

Tubes will need slid into proper location prior to tightening nuts. See step #8



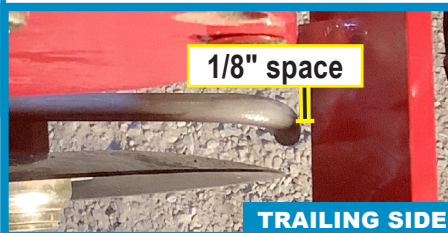
**STEP #8:** Each tube's proper location is determined by whether it is over the leading or the trailing covering disc.

#### TUBE OVER TRAILING DISC



Slide the tube over **TRAILING** covering disc **TOWARDS THE BACK** so that there is **1/8" SPACE** between the tube and horizontal bar on

the press wheel bracket (bolts will be further forward than on the leading side)



**TRAILING SIDE troubleshooting:**  
See note on next page →

#### TUBE OVER LEADING DISC

Slide the tube over **LEADING** covering disc all the way **FORWARD** (bolts will be towards the back)



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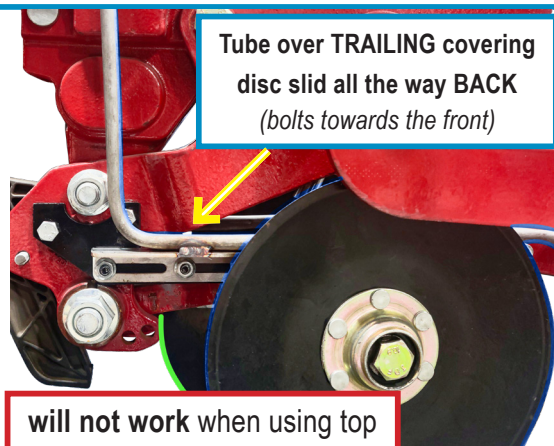
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### NOTE for troubleshooting **TRAILING** side:

You may run into problems if you have the trailing tube all the way back (*bolts all the way forward*) and are using the bottom hole for down pressure on your Case IH 2100 tail section. This will cause the tube to hit the horizontal cross bar.

If you are using the top hole for down pressure, you should be able to push the trailing tube all the way back on the bolts and still have enough space (1/8") between it and the horizontal bar.



### STEP #9: Tighten nuts.

Install injector orifice and rubber boot if you haven't already done so. See step #1 & #2

## CHANGING THE COVERING DISC

**STEP #10:** We have alternative covering disc styles available as well, such as the 9" serrated STP disc shown here.

Changing out your covering disc is simple and comes with many benefits. Swap the original concave disc with the straight disc, inserting a 1/4" spacer bushing on the inside of the new straight disc to maintain proper distance.

### Benefits of switching from a concave disc to the straight disc:

- Easier to push into the soil than the concave disc
- Provides better seed furrow closure
- Cuts soil the full distance or 3" from the furrow for a distance of at least 5" long, breaking it down into finer particles (whereas the concave disc only cuts soil on its front half, 4" of the 8" disc)
- With the concave disc, you are forcing soil 1-1/2" wide cut 2" from the seed furrow to the center to close the seed V, which takes a lot of down pressure
- 25# to 30# less down pressure needed to close the seed furrow
- Saves wear and tear on the closing disc brackets and bushings
- Use a 1/4" spacer bushing to space the disc out further from the seed furrow so it will be the same distance as the concave disc is at its center point



insert a 1/4" spacer bushing on the inside of the straight disc

