REBOUNDER™ & LIQUID FERTILIZER TUBE MOUNTING INSTRUCTIONS

John Deere 1560-1990 Drills with One Piece Seed Boot

(Read Instructions Completely before Beginning Installation)

Before working on your planter or drill

DANGER: When storing or working on the planter or drill always install cylinder stops or place the planter or drill on stands to prevent personal injury or damage to the Rebounder. **WARNING:** Do not roll back or back up the planter or drill in or on the ground as this can result in damage to the Rebounder.

Mounting Instructions

Before you begin, verify all items listed in the "package contents" table at the right.

NOTE: *Drills made in the last 2-3 years probably need metric bolts*

Step #1: Pull metal seed tube out of top of seed boot (to get to bolt holding seed tube).

Step #2: Take bolt out of seed flap at bottom of seed boot.

Step #3: Now install liquid fertilizer tube at top and bottom of seed boot.

Step #4: Take nut off bolt at top of seed boot and slide liquid fertilizer tube in from the top by placing painted tab over bolt (yellow tab is left and green tab is right **[fig. (a)]**).

Step #5: Put two 7/16" washers over bolt and replace nut on bolt **[fig. (b)]**. Fertilizer tube needs to be positioned in bottom of boot where seed flap or Rebounder goes **[fig. (c)]** & **[fig. (d)]**. If using your old seed flap, cut notch out so tube can be placed beside flap. Do not tighten top bolt until you have Rebounder or seed flap installed.

Step #6: If using Rebounder, install Rebounder at bottom of seed tube. Place the two 1/4" washers over the Rebounder and insert 1/4" screw to hold in place **[fig. (c)]** & **[fig. (d)]**.

Step #7: Tighten top bolt and bottom screw. Replace seed boot in your drill.

Liquid Fertilizer Tube Package Contents (per single row)	
Item	**Quantity**
Stainless Steel Tube	1
7/16" Washer	2
1/4" Washer	2
1/4" Screw	1
Instruction Sheet	1

Rebounder Package Contents (per single row)	
Item	**Quantity**
Rebounder for Stainless Tube	1

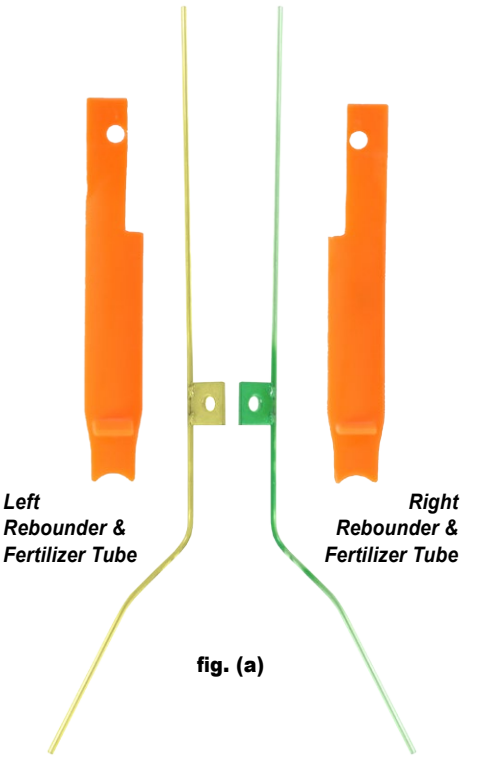

fig. (a)

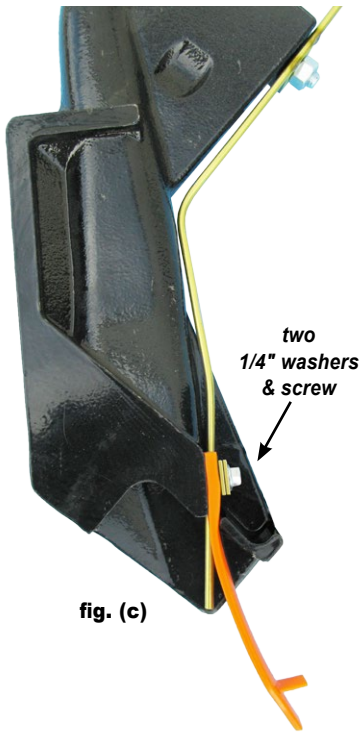

fig. (c)

fig. (d)

OVER

REBOUNDER™ & LIQUID FERTILIZER TUBE MOUNTING INSTRUCTIONS

John Deere 750 Drills with One Piece Seed Boot

(CONTINUED)

Troubleshooting

In some cases, the top ends of the tubes might need to be shortened or cut off to add strength to the tab that is welded on at the top end of the tube. You may have to cut as much as 6" off the top of the tube **[fig. (e)]**, depending on the manifold system you have.

If you are using a manifold system that runs down the rocker arms of the drill where the row units are bolted, then you will leave the full length of the tube and use a short (2' +/-) hose connecting to the stainless tube that doesn't have to be tied to anything.

If you are using a manifold system on the center of each section of the drill and running the fertilizer hoses strapped to the seed hoses, then you need to leave enough slack on the fertilizer hose that connects to the stainless tubes so that the flexing of the seed tubes won't break the welded tab on the fertilizer tube. In this case you should cut the stainless tube off on the top side to relieve the flexing pressure as you travel in the field **[fig. (e)]**.

On some drills you may have to bend the top end of the tube and re route fertilizer hoses being careful not to break the welded tab off the tube. Placing the tube in a vice to bend it will help keep the welded tab from breaking. Tube may be bent any way **[fig. (f)]**.

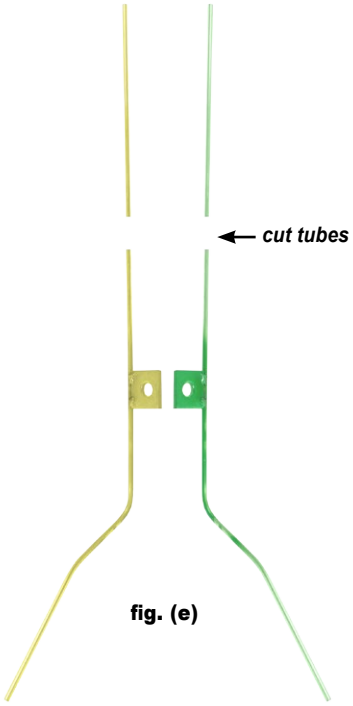

fig. (e)

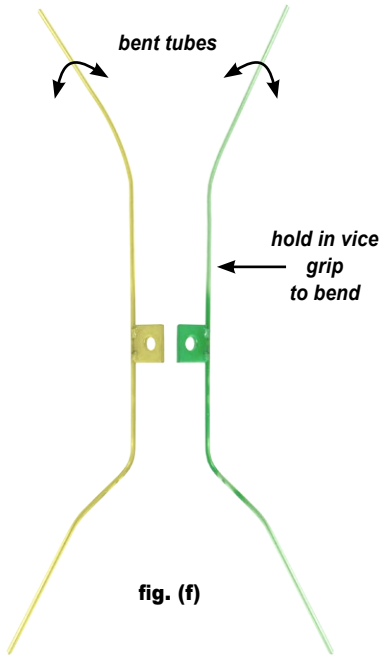

fig. (f)

About the Liquid Fertilizer Tube (Chad's Tube)

This is one of several designed attachments that Schaffert Mfg. Co. sells to place starter fertilizer in the furrow of most John Deere model 750-1990 No-Till Drills. *(NOTE: JD 750 Drills require a different mounted tube. Please specify when ordering if you have a JD 750 Drill.)*

We call this "Chad's Tube" because it was designed by a farmer named Chad who plants crops with a John Deere No-Till Drill. "Designed by a farmer for farmers." It is probably one of the better ways to put starter in furrow with the seed.

Chad's Tube works very well with the Rebounder on these models of drills because the Rebounder has a concave design to put all the seeds in the bottom of the furrow along with the fertilizer from Chad's Tube. The Rebounder takes the place of the John Deere seed flap that sometimes leaves seeds on the side walls or out of the seed trench, thus making fertilizer placement less effective.

Farmers have found by using the Rebounder over the John Deere seed flap that they can back off on higher cost seeding rates because the Rebounder gives them uniform depth placement of all the seeds, and that in turn gives them larger numbers of plants germinating and more uniform emergence. In tests conducted with soybeans where farmers have decreased their seeding rates from 220,000 seeds down to 150,000 seeds per acre their yields haven't dropped by using the Rebounder and starter fertilizer. By cutting the seeding rate by almost 1/3 can be a substantial savings in seed costs and enough to pay for the Rebounder and Chad's Tube in a small amount of acres planted. This makes the drill more like a planter.

Advantages of Chad's Tube and the Rebounder:

- ► Chad's Tube and the Rebounder are protected from trash by being mounted to the back of the seed boot
- ► Places starter inside the boot and below the Rebounder with the seed
- ► Rebounder also keeps fertilizer from Chad's Tube from coming in contact with the press wheel that runs in the seed V
- ► Keeps fertilizer off other parts of the drill
- ► Chad's small tube and the compact design of the Rebounder let both run without interference with the press wheel
- ► Allows the Rebounder to place seeds in the bottom of the seed V
- ► Chad's Tube and the Rebounder allow the press wheel to press seeds in below the starter
- ► Ease of installation with one bolt to the Rebounder and the other to the top of the seed boot
- ► Mounted in two places on the seed boot for stability
- ► Chad's Tube is made of stainless steel for corrosion protection