

TROUBLESHOOTING CASE IH PLANTERS & SCHAFFERT MFG. ATTACHMENTS

(4 pages)

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 Rebounder. **WARNING:** do not roll back or back up the planter in or on the ground as this can result in damage to the Rebounder.

Troubleshooting Guide

The following will describe the appropriate **down pressure settings** and the **size of the covering discs** to ensure proper seed placement when using the Rebounder Seed Cover with Case IH planters.

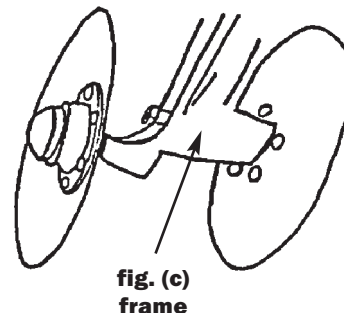
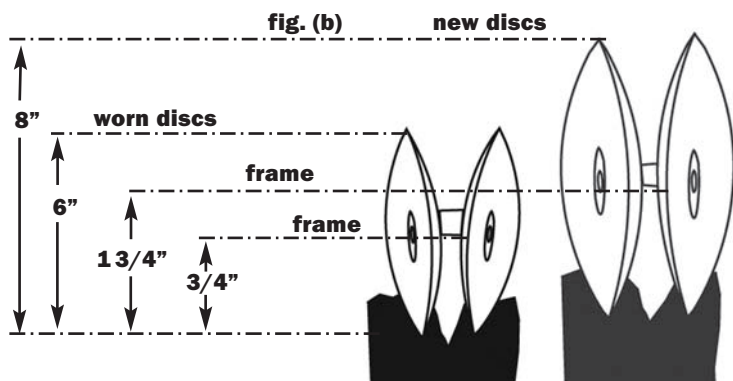
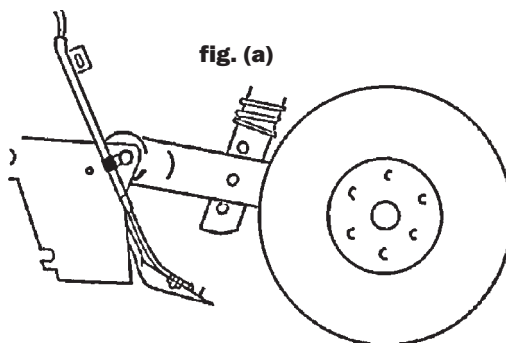
The Rebounder Seed Cover and accompanying fertilizer attachments work very well with Case IH planters. In fact, many farmers have commented on the Rebounder's consistent ability to place the seeds deep into the seed V. They no longer find seeds on top of the ground, or mixed throughout the seed V. Along with this major benefit, the Rebounder also allows farmers to increase air pressure, contributing to better delivery of seeds to the outer rows. Decreasing the worry of blowing seeds out of the V where the tubes are shorter.

Case IH planters have a unique closing system composed of 2 reverse concave discs that squeeze the seed V shut ahead of the press wheel. The 900 and newer series have three holes for down pressure adjustment in the bottom of the tube. This holds the covering disc springs (**fig. (a)**). The top hole provides 20 lbs. of pressure on the discs for closing the seed furrow, while the middle hole provides 30 lbs. of pressure and the bottom one, 40 lbs.

The **800 series planters** have only one hole for down pressure adjustment. However, a **900 update kit** is available with staggered discs and a new tube with 3 holes of adjustment. Or if necessary, drill the other 2 holes in the older 800 tube.

In theory, the more pressure applied, the deeper the discs run in the ground. In heavy textured, no-till soils one might have to run with maximum pressure or have the pin in the bottom hole of the insecticide tube. In minimally tilled or conventionally tilled soils, the pin should be put in the middle or top hole of the insecticide tube, depending on the looseness of the soil.

Not only is the down pressure setting important but so is the size of the covering disc. New discs measure 8", worn discs need to be changed before they reach 6 1/4". Even with the new discs, running 1 1/4" deep puts the frame between the discs at only 1 3/4" above the soil surface (**fig. (b)**). With discs worn to 6 1/4", the frame is within 3/4" of the soil surface. How many root balls or corn stalks can squeeze through a 3/4" opening at 5 mph? (**fig. (c)**) To ensure uniform seed spacing, be sure to monitor the covering discs, this is the most critical area on Case IH planters.



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Specific Areas of the Planter

PROBLEM	SOLUTIONS
Trash build-up	<p>Try not to field cultivate so deeply ahead of planting and trash will not be buried so deep.</p> <p>Use furrow openers or trash wheels in front of the planter to move trash away from covering discs [fig. (d)].</p>
Disc pressure	Set the disc pressure according to soil type and field conditions [fig. (e)], or see IH Dealer for IH 800 update to IH 900 model.
Disc size	Use 7" or larger covering discs on the planter (see pg. 1).
Inconsistent seed placement & depth	Install the Rebounder Seed Cover to ensure proper seed placement and uniform depth.
In-furrow placement	<p>Liquid in-furrow fertilizers, chemicals, or insecticides off the end of the Rebounder are kept in-furrow and away from the seed tube to prevent plugging [fig. (f)].</p> <p>Dry in-furrow fertilizers or insecticides can also be applied through the insecticide tube. This is accomplished by drilling a series of holes through the top of the Rebounder or by cutting the Rebounder off 2" up from the bottom [fig. (g)]. Call for further instructions: 800-382-2607.</p>
Press wheel stop wear	[Fig. (l)] (below) shows the stop that holds the press wheel and covering discs up when the planter is picked up. If this stop gets bent up or fatigues over several years' use, it will let the black cast bracket that holds the press wheel and covering disc come down lower when the planter is picked up, causing the covering disc and insecticide tube to rest on the Rebounder and fertilizer attachments. If this happens, weld a flat 1/2"-3/4" thick square iron piece (the width of the stop) under the stop to raise the press wheel, covering discs, and black cast bracket up to make it like new again [fig. (h)].
Covering disc pressure	<p>Installing Furrow V Closer discs behind the IH covering discs will allow you to run with less pressure on the covering discs [fig. (i)]</p> <p>Better seed-to-soil contact is achieved with a Furrow V Closer because it "stitches" the seed V shut in wet, heavy soils so the seed V does not crack back open after planting</p>
Gauge wheel wear	If there is wear on the gauge wheel arm, the gauge wheels will spread apart and allow dirt and mud to build up, causing the seed V opening to be deformed due to the blade not being scoured clean
Insecticide tube length	To avoid having the insecticide tube hit the Rebounder, it may be necessary to cut 1/2"-3/4" of the insecticide tube off [fig. (k) & fig. (j) above]

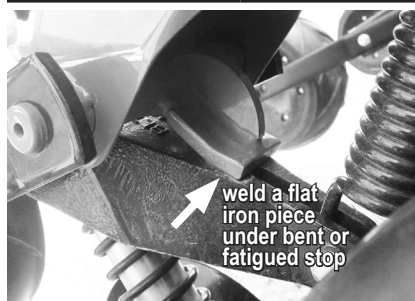


fig. (l)

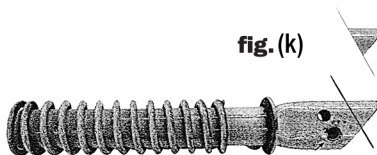


fig. (k)

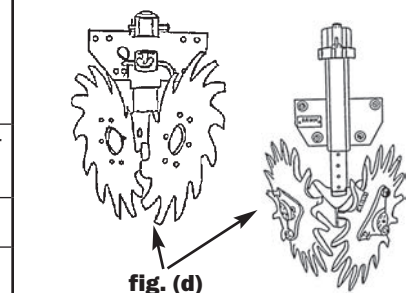


fig. (d)

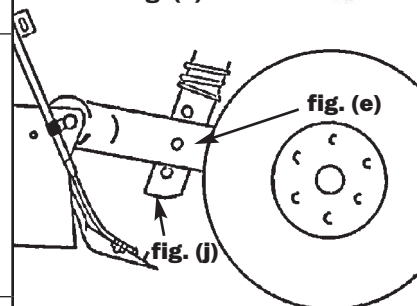


fig. (e)

fig. (f)

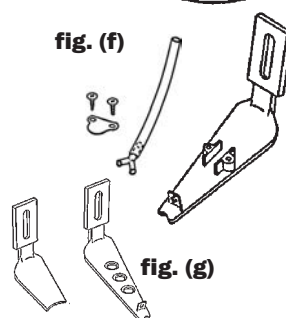


fig. (g)

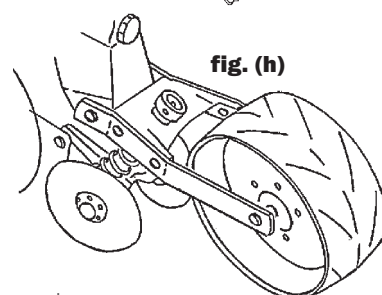


fig. (h)

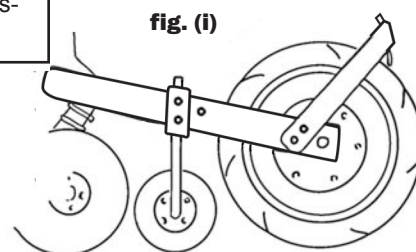


fig. (i)

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PROBLEM

Plugged seed boots

SOLUTIONS

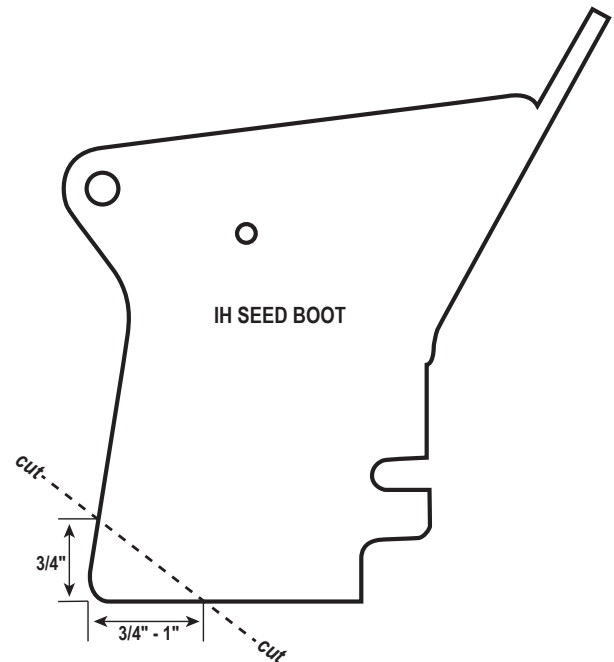
Take the seed boot out of the Case IH planter. Measure up on the back side of the seed boot $\frac{3}{4}$ " up from the bottom edge (do not go more than $\frac{3}{4}$ " up because this will cause the bracket to rub) and then $\frac{3}{4}$ " - 1" forward along the bottom as shown. Do this to both sides of the seed boot. Cut these corners off using a band saw or cut off wheel.

Cutting off each corner of the seed boot eliminates the chance of getting a clod, chunk of wet dirt, piece of residue or a corn stalk wedged inside the seed boot, which plugs the seed tube with seeds. This does not change the integrity or efficiency of the seed boot other than let seeds flow out the bottom without getting plugged inside the seed tube and boot. It lets everything flow evenly.

Cutting both sides of the boot off also does not effect the integrity of the seed trench. Case IH runs a style of gauge wheel tire that does not compact the side wall of the seed trench. It has a concave area on the tire nearest the seed V that keeps the gauge tire from compacting the sides of the seed V too much, making it hard to close back up with the press wheel. This eliminates the narrowness of the seed boot where the seed enters the seed V after it leaves the seed tube from getting plugged up with clods, mud or residue when the planter is set down.

Sometimes when you set the planter down without moving forward it will lodge a clod or piece of residue up inside the boot thus blocking the seed flow out of the tube. By cutting these corners off it lets you plant without plugging.

Many farmers and Case IH dealers feel row cleaners are not necessary with the Case IH planters because of the staggered double disc openers on the planter. By not using row cleaners it makes it difficult to keep residue and clod out of the seed boot. These plugging problems can happen with or without the Rebounder installed. By cutting these edges off the boots it makes the Rebounder work better also.



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When Using the Chicken Tracker

PROBLEM	SOLUTIONS
If mud builds up on the Chicken Tracker	Run your row cleaners shallow, just moving residue away. When the row cleaners are ran deeper into wetter soils, the Chicken Tracker can collect mud.

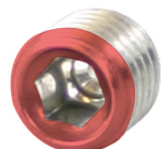


When Using the 2x2 Fertilizer Tube & Injector Orifice

PROBLEM	SOLUTIONS
Filings and crud in tubes and fertilizer application system from the manufacturing process	USE WATER TO FLUSH your entire fertilizer application system and the fertilizer tubes out before use and before installing injector orifices. This will clean out all the crud and filings left over from the manufacturing process and also test for leaks.
2x2 fertilizer tubes are plugging	Use 50 or 80 mesh filters ahead of the tubes to keep them from plugging.
Injector orifice will not thread into 2x2 fertilizer tube	Use a 5/16-24 standard tap threader to clean out the tube's threads. During the manufacturing process, filings and crud can get lodged in the threads.



ORIFICE END



HEX END

TROUBLESHOOTING CASE IH PLANTERS

2 POINT, 3 POINT, & PULL TYPE PLANTERS

NOTE: Photos show Case IH planter. These suggestions apply to all makes of 2 point, 3 point, and pull type planters.



PHOTO 1

- 3 point set so bar is level;
Pull type planters set bar level
- Full down pressure on press wheels
- Planter is running nose down
- Press wheels are not closing the seed furrow



PHOTO 2

- 3rd link adjusted back 2 rounds from level bar;
Adjust hitch up on pull type planters
- Full down pressure on press wheels
- Planter units running more level; bar down a little in back
- Press wheels closing the furrow better



PHOTO 3

- 3rd link adjusted back 4 rounds from level bar
- Reduced pressure on press wheels to 2nd notch
- Planter units down some in the back
- Press wheels closing seed furrow the best

- By nosing planter down in the front, seeds will not be placed properly in the seed V as the seed tube angles out and back too far.
- Worn parallel link bushings on planter units cause planter to run nose down in front, even with the bar set level. An eighth of an inch wear on bushings can equal close to an inch difference on the back of the planter.
- Positioning planter units down in the back makes the seed tubes more straight up and down, while also reducing the amount of pressure needed for the press wheels to close the seed V better.