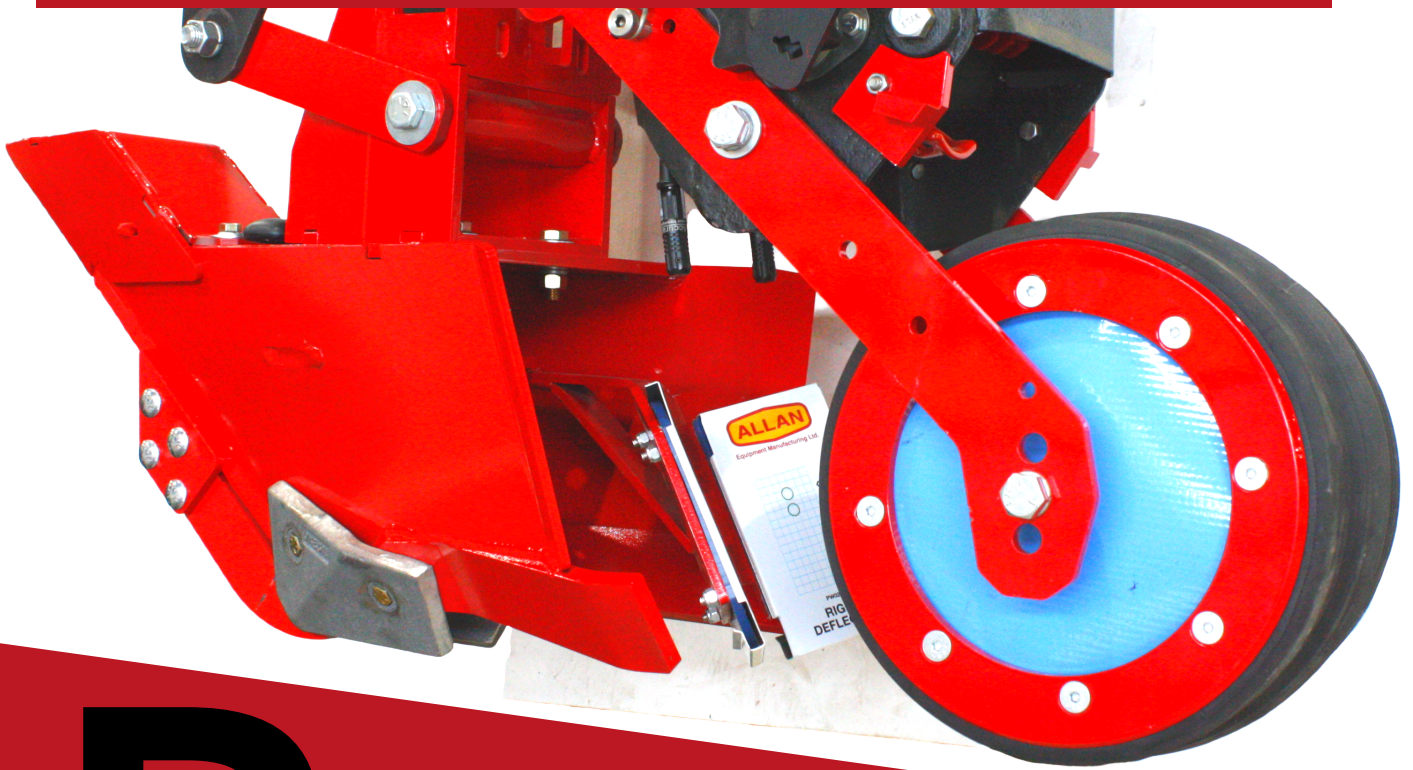




Before using the Press Wheel Planter, read installation, assembly and maintenance information in this user manual carefully.



# P ress wheel planter

## USER MANUAL for Grimme



Equipment Manufacturing Ltd.

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# GENERAL

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## **Preface:**

This document is intended as a reference for authorized users only, who can use and maintain Press Wheel Planter in a safe manner. Keep the manual in a fixed place.

This manual gives you information on how to disassemble your planter and installing the Press Wheel Planter Kit as well as the tine kit.

Allan Equipment Manufacturing Ltd. is not responsible or liable for any damage or injury caused by not following the instructions mentioned in this manual.

## **Introduction:**

The Press Wheel planter kit can be fitted to most commonly used planters. This kit eliminates set roll, and in doing so, increases seed placement accuracy, allowing operators to be able to increase planting speeds.

The Press Wheel Planter is intended to be used to plant potato seeds only. Any other use is regarded as improper use and is not covered by the manufacturer's warranty.

The Press Wheel Planter Kit includes all material required for assembly.

# SAFETY REGULATION

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## **General:**

Allan Equipment Manufacturing Ltd. assumes no responsibility or liability whatsoever for damage or injury caused by not following safety rules and instructions in this manual, or by negligence during use and maintenance of the Press Wheel Planter Kit. Contact Allan Equipment Manufacturing Ltd. immediately if you see a potential danger when installing this kit. The user of the Press Wheel Planter Kit is always fully responsible for following the local safety rules.

## **User Instruction:**

The operator and installer of the Press Wheel Planter kit must be familiar with the contents of this user manual and follow the instructions outlined therein. Never change the order of the required steps.

# INSTALLATION AND ASSEMBLY

## **Safety devices:**

Persons working on the disassembly, installation and assembly of the Press Wheel Planter Kit must be equipped with the necessary personal protection gear. This includes, but is not limited to:

- Safety shoes
- Gloves
- Hearing protection (for grinding)
- Safety glasses
- Work clothing
- Fire resistant clothing for grinding

When moving, hoisting or lifting the planter and Press Wheel Planter kit, all parts have to be fastened or immobilized in such a way that there is no danger that these parts will cause injury.

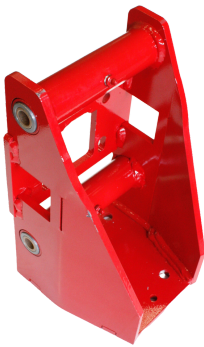
When grinding is required during installation, it has to be done in a room screened off in such a way that there is no danger of fire.

The floor of the work space must be even and there must be enough space to work safely. The planter has to be secured with stands to ensure that the planter cannot fall on top of the person working underneath it.

## PARTS



Shoe



Tower



Nose



## PARTS



Deflector



Press Wheel



Swing Arm



Shoe Mounting Plate

## PARTS



Lower swing arm stops



Shoe bushings

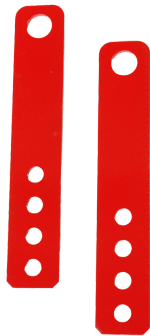


Bushings



Upper wheel stops

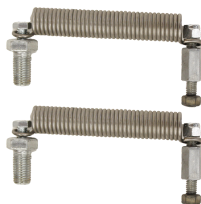
# PARTS



Coulter extensions



Coulter tension extension



Spring set



Deflector calibration plates

## PARTS



Seed Tube



Laser Sighters



Tower Cutout Template



Some parts may not be used for certain planters. Follow the instructions carefully.



## OPTIONAL PARTS



### Ski

Addition to shoe if terrain is rocky.



### Scrapers

Wheel scrapers if wheelpacks up too much.



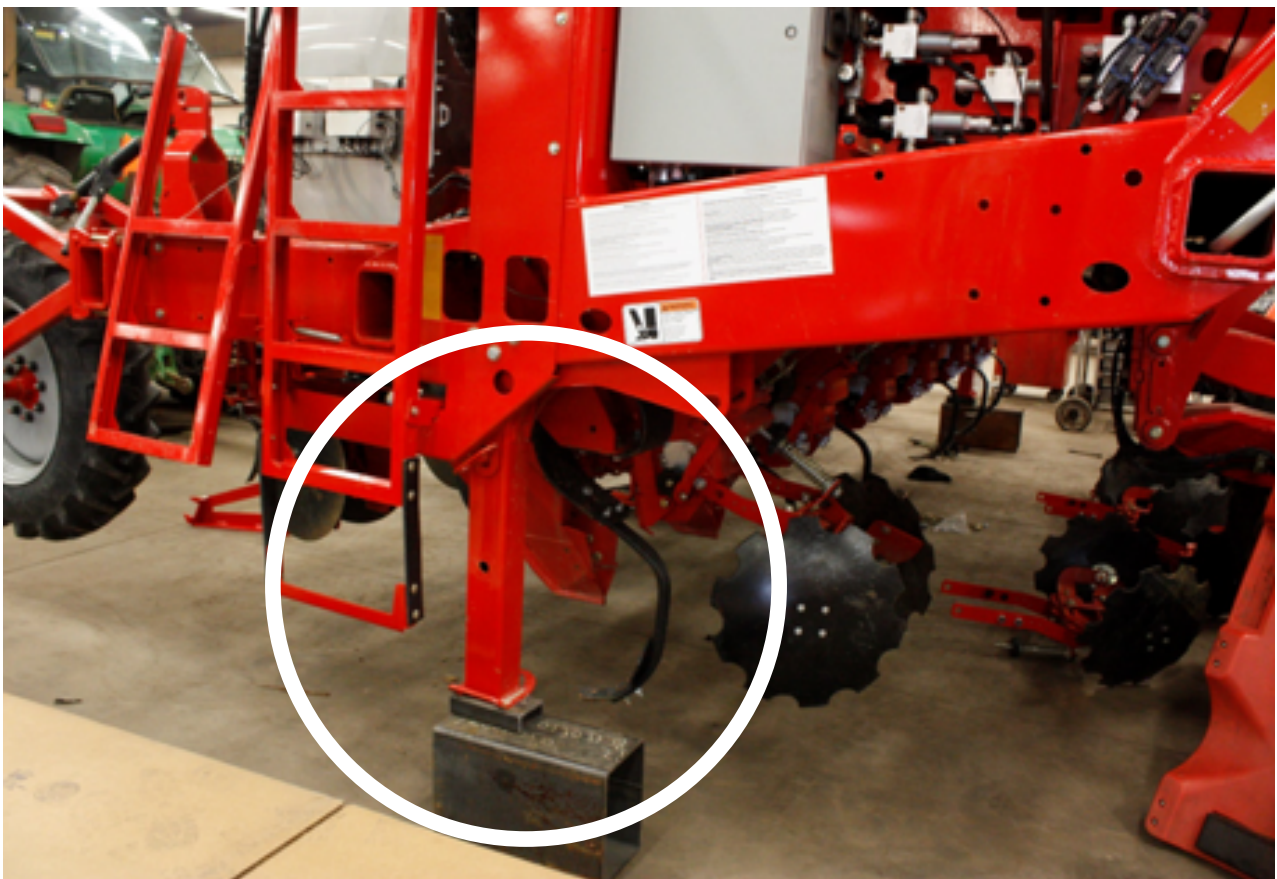
Some parts may not be used for certain planters. Follow the instructions carefully.

# PREPERATIONS



FOR YOUR OWN SAFETY FOLLOW THE  
INSTRUCTIONS CAREFULLY

Before you begin make sure that the planter is lifted off the floor and secure on its stands.



## DISASSEMBLY



**1**

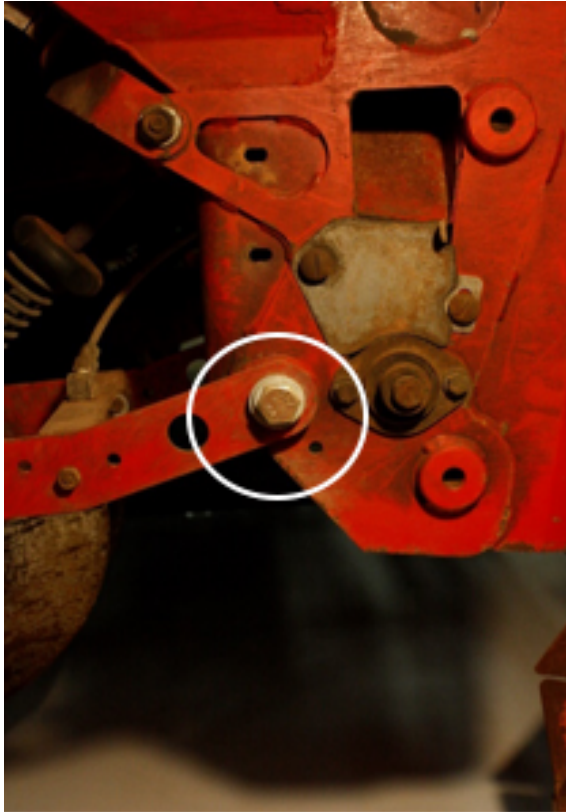
Undo bolt for spring mechanism.



**2**

Unwind bottom part of bolt.

## DISASSEMBLY



# 3

Start by raking off the covering coulter from the tower.



# 4

Insert floor-jack to support both shoes.



## DISASSEMBLY



# 5

Undo bolts of lower drag link arms and top H bracket.

After the shoes are unbolted, pull them out from underneath planter.



Keep shoes on floor-jack.



# 6

To remove seed tubes, undo the locking nuts at the top and bottom of the tower and screw bolts in **all the way**.



If bolts are seized, cut flush with grinder.

## DISASSEMBLY



# 7

Unscrew the bolt at the diviner and remove the diviner.



# 8

To remove the cup belt, loosen nut on tensioner on both sides of the tower. Then remove the wire at lacing and pull cup belt out.



## DISASSEMBLY



# 9

Remove the seed tubes by using a pry-bar to pull the bolt out of the tower. Once it is easy to pull the seed tube out, remove from planter.





# 10

The last step of disassembly is to mark the position where the old shoes are positioned on the square tubing. Then removing the shoes.





## INSTALLATION

# 1

Wipe the bottom part of the tower and place sticker to guide cutting.



# 2

Use a cutting wheel to cut along the tower cutout template.



## INSTALLATION



**3** Install the stainless-steel seed tube.



Make sure to hook the seed tube at the top of the tower.



## INSTALLATION



Fasten the bolt into the seed tube through the hole in the lower hole only.

## INSTALLATION



# 4

Install cup belts.



Install the diviner and tighten the tensioners.

## INSTALLATION



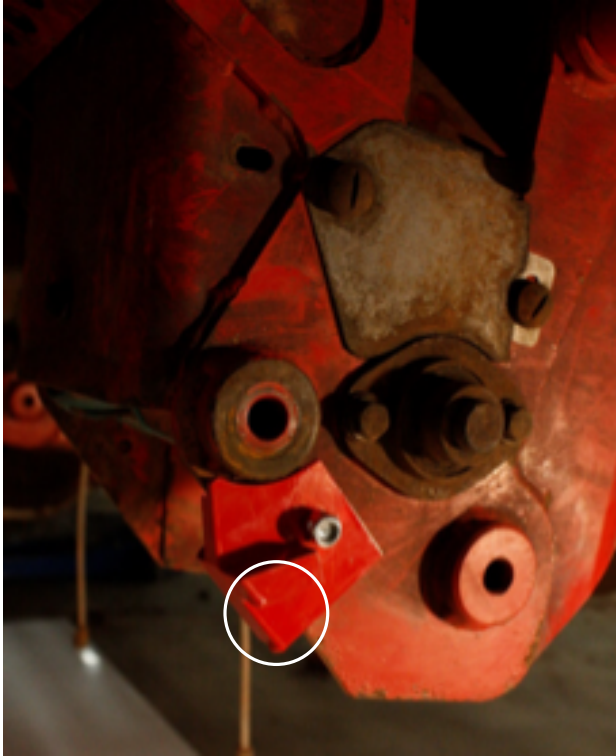
- 5** Lift the arms and insert the  $\frac{5}{8}$ " x 10  $\frac{1}{2}$ " spacer bolt under the arms, Reuse original H-bracket and drag links to install the shoe.



- 6** Install the upper wheel stops to both sides of the tower. Chase the threads with a tap to clean out the hole, then tighten the special M16x40 bolts with lock washers.



## INSTALLATION



# 7

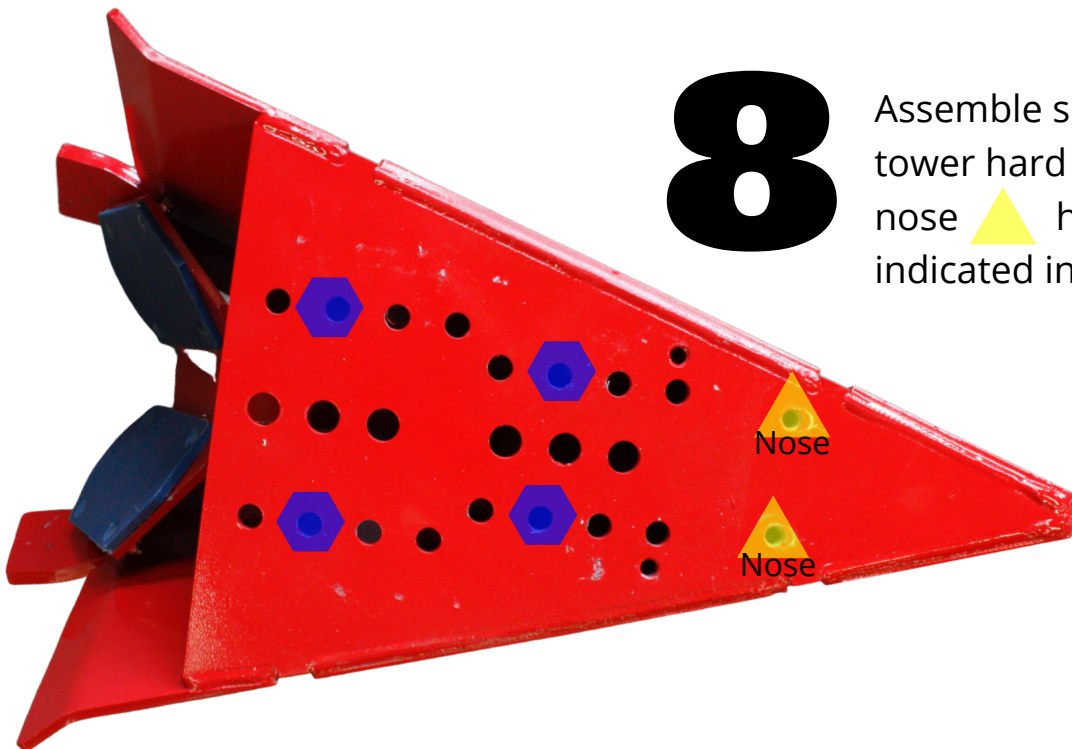
Install the lower swing arm stops with 5/16" x 1 1/4" bolts on either side of the tower.





If there is no hole in the tower mark the hole with the stop and drill.



The nut must be on the outside of the tower.



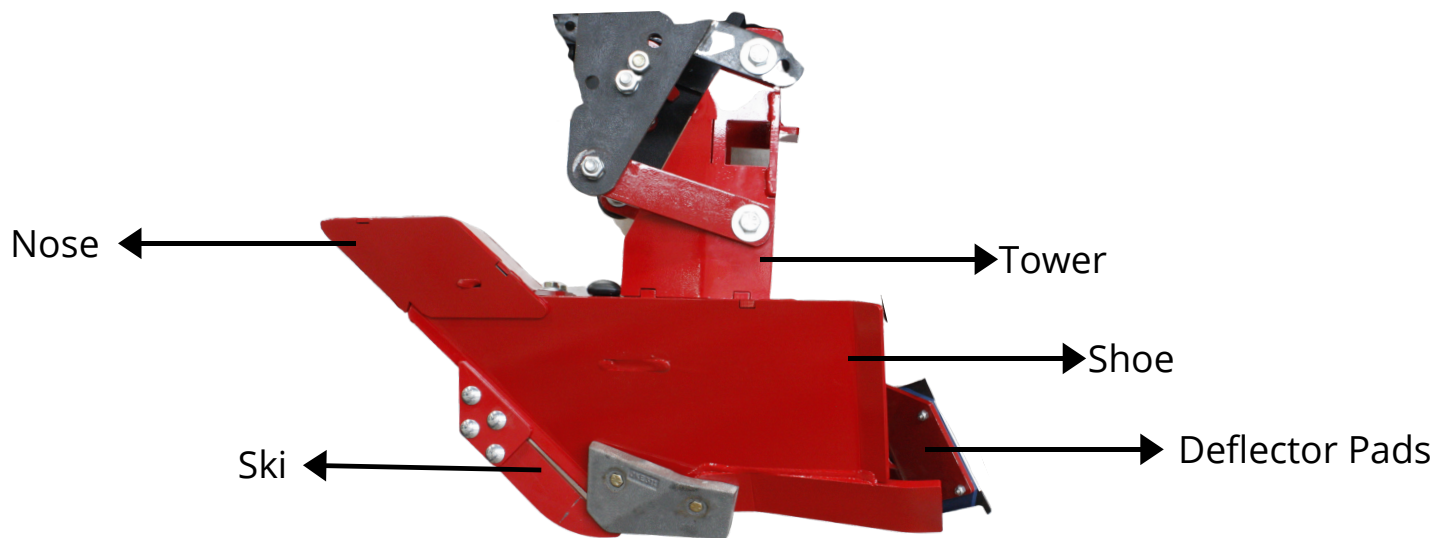
# 8

Assemble shoe by using the tower hard wear kit and the nose  hard wear kit as indicated in the picture 

Nose

Nose

# INSTALLATION





## INSTALLATION

# 9

Insert shoes on the square tubing to mark made earlier. Just tighten slightly on tube. Then position the shoe assembly underneath planter.



# 10

Insert the bushing into the upper and lower holes on the shoe. Lubricate them before pushing through. Grease the zerks after installation



## INSTALLATION

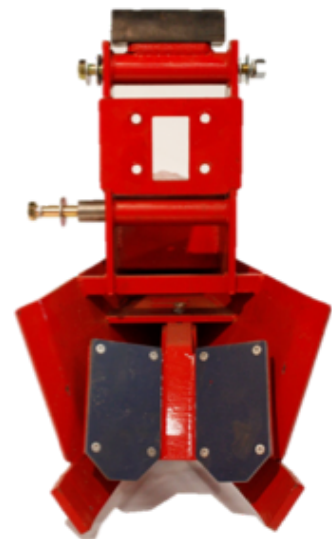


# 11

Raise the jack so the top bushing and upper arm holes align. Place the bolt in inside hole.

Insert the 5/8 x 9 1/2" bolt. Put the washer in-between the upper arm and shoe.

Then swing the shoe so the lower arm hole and bottom bushing aligns, then insert 5/8 x 9 1/2" bolt in the same manner as the upper arm.



## INSTALLATION

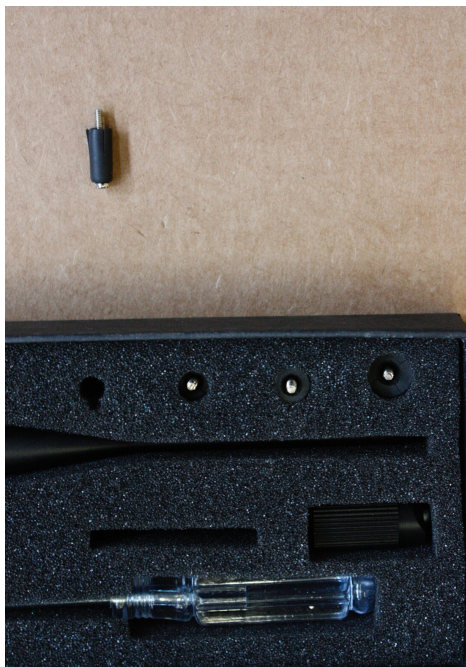


Tighten the 4 bolts on the shoe mounts so shoes are secure.



Grease zerks and check for range of full movement of shoe assembly with the floor jack up and down.

## INSTALLATION



# 11

Use smallest tip in laser kit and screw onto laser point.



Insert the lasers with a dab of grease or vaseline into the tubing on the stainless-steel seed tube.

## INSTALLATION



Finger tighten bolts to allow movement of the deflector pads. Align the lasers with corresponding marks on the deflectors. Once aligned tighten bolts on deflector arm.



Tighten the bolts using an extension ratchet coming from under the shoe between the ware plates. Remove the calibrations plates and the lasers from the unit.

# 12

To install the swing-arm, insert the bushing and fasten the bottom part of the spring set to the middle hole of the swing arm.





## INSTALLATION



Spring set assembly



Chase the threads with a tap to clean out the holes on the tower. Then align the bushing of the swing arm and fasten the M16 x 40 bolts and the lock washer to 175 ft/lbs.



Check that the swing arm moves freely.

Then thread a  $\frac{3}{8}$ " x 1" bolt into the special bolt and hook the spring to it.

Also hook the spring to the swing arm and fasten the nut to secure it.

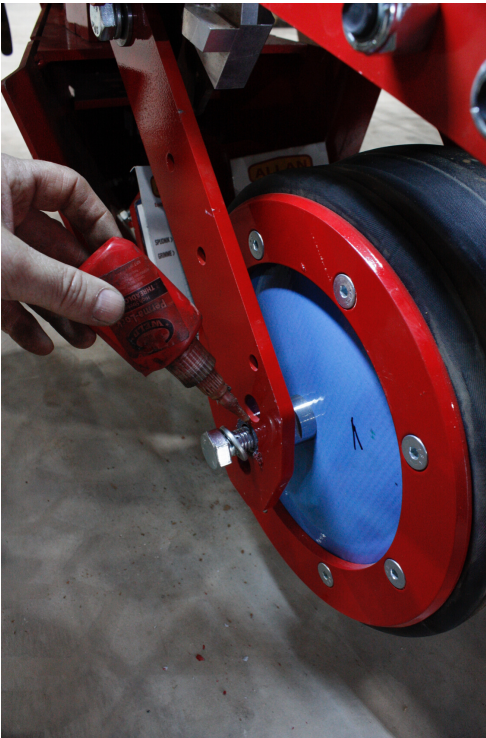


## INSTALLATION



# 13

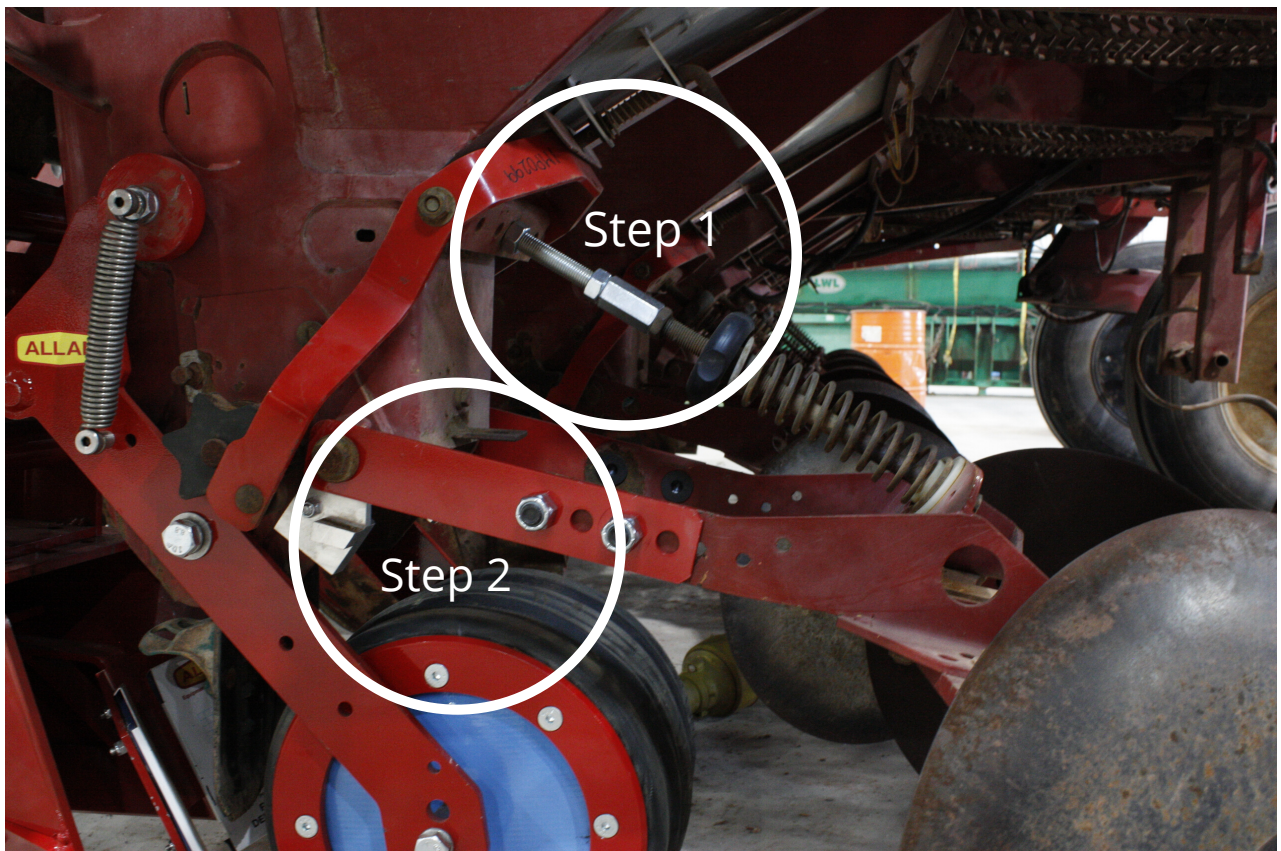
Place the press wheel on the floor-jack and position it in-between the arms of the swing arm.



Lift to align holes then thread  $\frac{5}{8}$ " x 2" bolt with lock washer and lock tight blue and torque to 150 ft/lbs.

# 14

To install the covering coulters start by installing the tension extension. Then install the coulters with coulters arm extensions with socket head machine bolts on the inside. Wheel covering coulters in place under planter and install with original M16 x 30 bolts and bushings.



## INSTALLATION

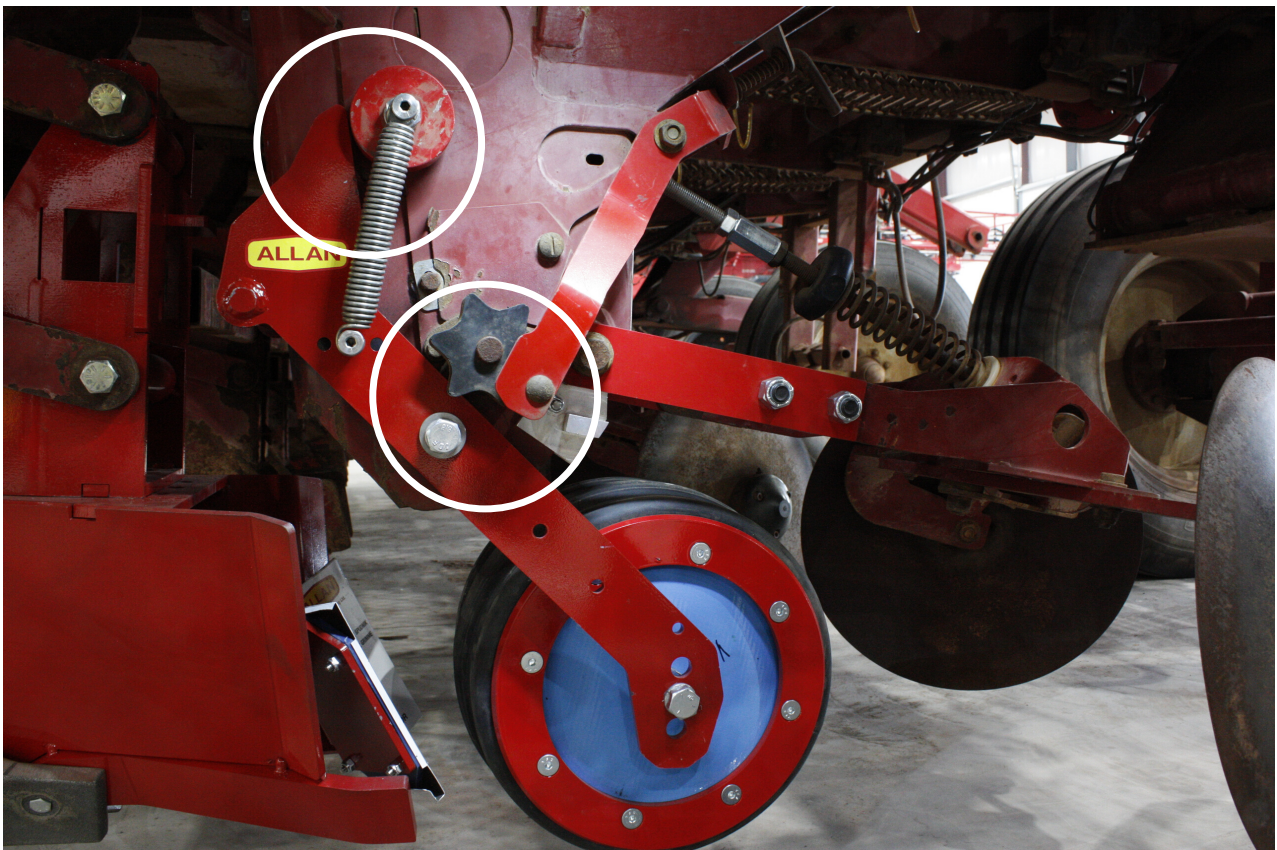


Lift up the coulters arms and tighten extension into middle hole.



## OPERATION

When the press wheel is in operation in the field it is important to check that the arm is off the top stop and not hitting the lower stop. It has to be equal distances from the stops.



## OPERATION

The arms on the shoe should also be parallel to the ground at all times.



If the planter is running to low add a stop collar to your planter's cylinder.



## S-TINE KIT



**1**

Loosen the bolt at current tine and remove the tine.



**2**

Install the tool bar with the bracket to the front of the planter with the middle bracket as close to center as possible and fasten flat plate at the back of the tubing with 5/8" x 7" bolts.



## S-TINE KIT



**3** Insert the 3" x 3" tubing and fasten with the plates and ½" x 5" bolts.



**4** Install the new tines as seen in picture, in the middle of opening coulters and fasten with ½" x 4 ½" bolts.





# MAINTENANCE

While using the Press Wheel:

Grease the zerks on the shoes every  
**20 hours**  
while using your planter.



For yearly maintenance:

- Check the deflector and calibrate if necessary.
- Check that the pressure of wheels are 2 ½ psi.
- Check the shoe movement up and down with the floor jack.
- Grease the zerks on the shoes.
- Check for loose bolts and fasten if they are loose.

## PERSONAL NOTES

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16 horizontal grey bars for personal notes.

## CONTACT INFORMATION

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