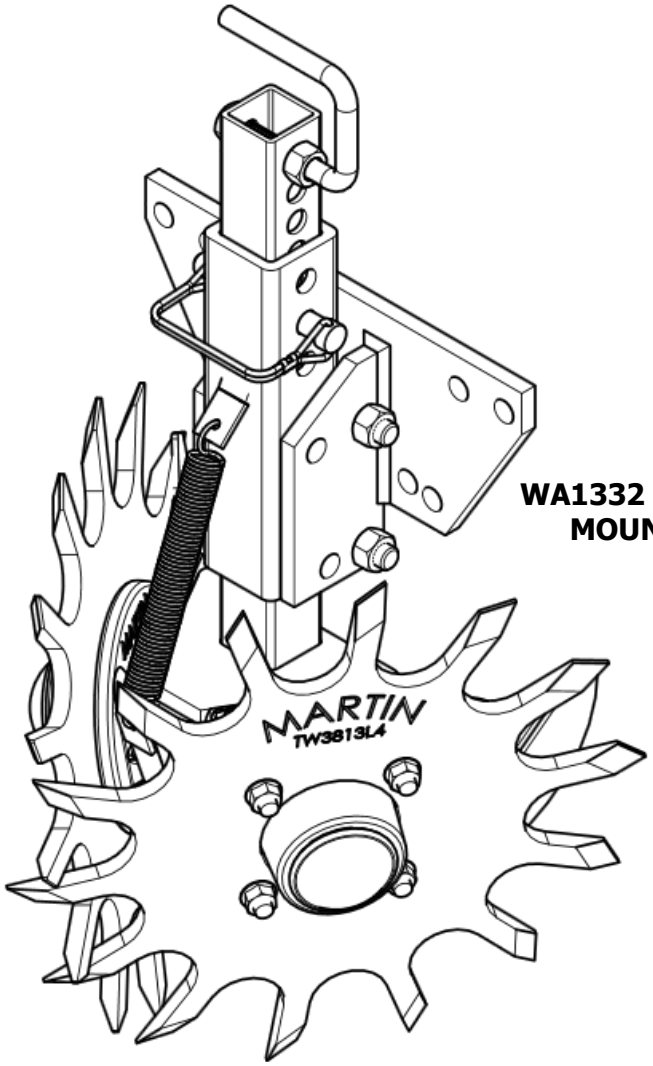
PIN ADJUST ROW CLEANER

APPLIES TO ALL MARTIN PIN ADJUST ROW CLEANERS

INSTALLATION INSTRUCTION



WA1332 WITH MT772 MOUNT SHOWN

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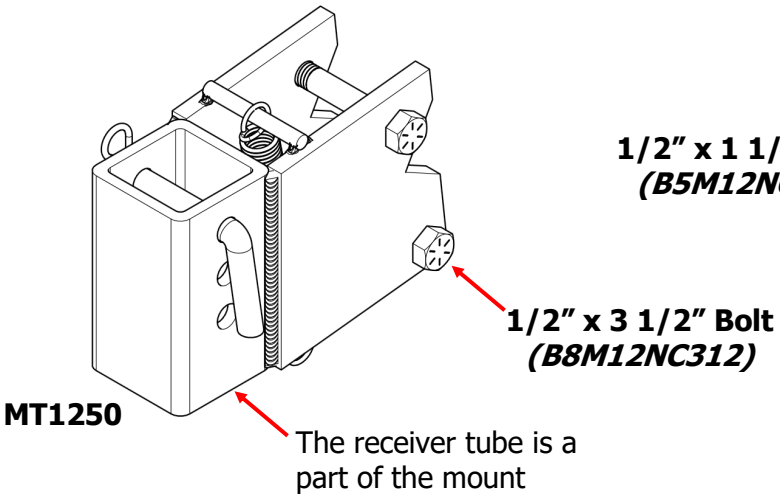
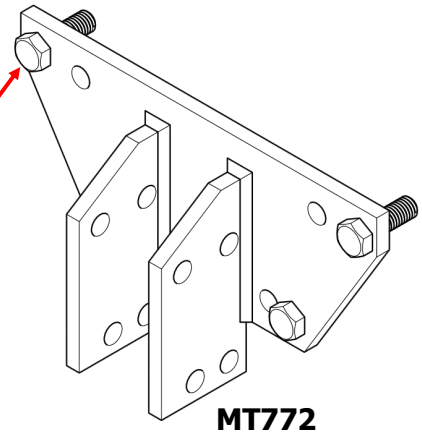
VERSION 04/17/18

STEP 1 : ATTACH THE MOUNT TO THE PLANTER

Using four 1/2" X 1 1/2" bolts, attach the mount to the planter face plate, and torque mounting nuts to 57 ft-lbs. For CaseIH Mounts (MT1250 or MT892), use provided two 1/2" X 3 1/2" Grade 8 bolts and nuts as shown in the left picture. Torque to 80 ft-lbs.





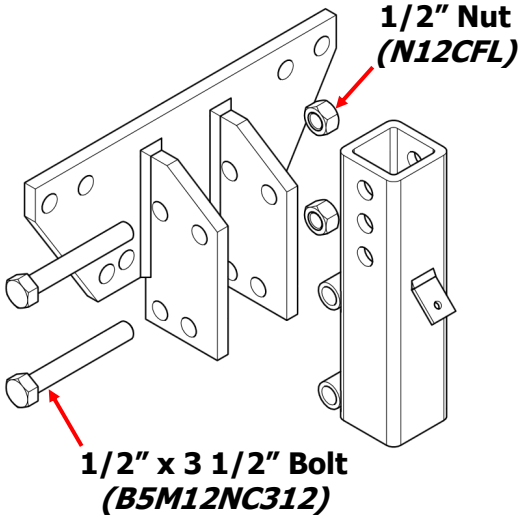
STEP 2 : ATTACH THE RECEIVER TUBE TO THE MOUNT

In some of the mounts such as MT892, MT1250, MT385, MT512, the receiver tube is welded to the mount.

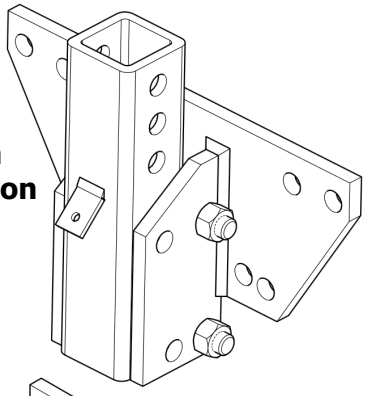
Skip this step if the receiver tube is a part of the mount

For other mounts such as MT610, MT772, MT4772, MT810, you have received a separate receiver tube and you need to attach it to the mount.

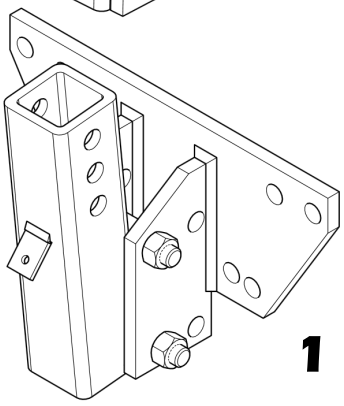
Using two provided 1/2" X 3 1/2" bolts and nuts, install the receiver tube between side plates on the mount. If the side plates of the mount have two set of holes, see illustrations below for correct mounting location. Installing the receiver tube in a wrong location will result in an interference between the top of the row cleaner and the planter's parallel linkage brace when the planter unit moves up going through an up and down land. Select the right location to avoid the interference.



Rear position for planters with lower arm braced in mid position (Early DEERE AND KINZE)



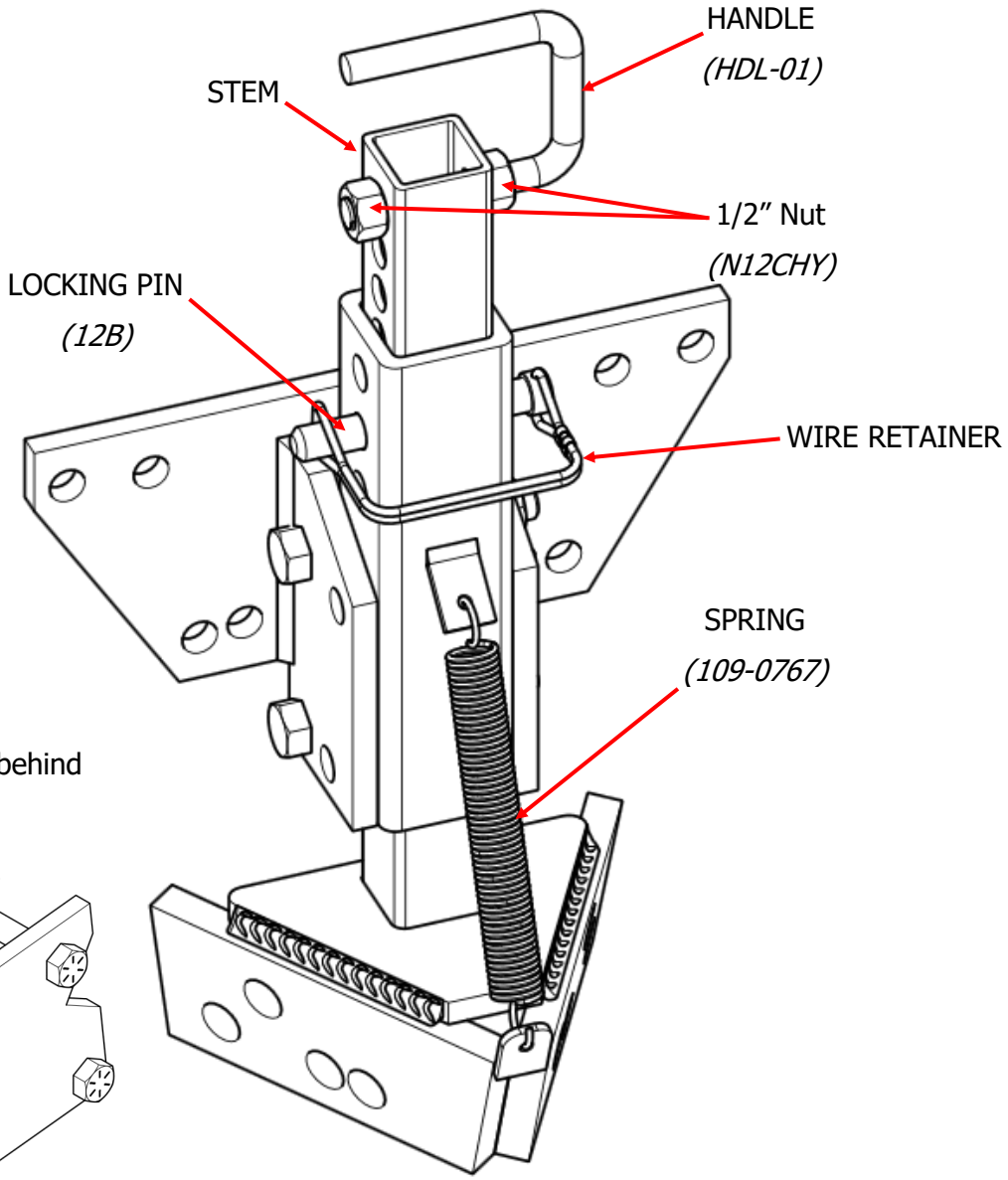
Forward position for planters with lower arm braced in rear position. (Late DEERE AND KINZE)



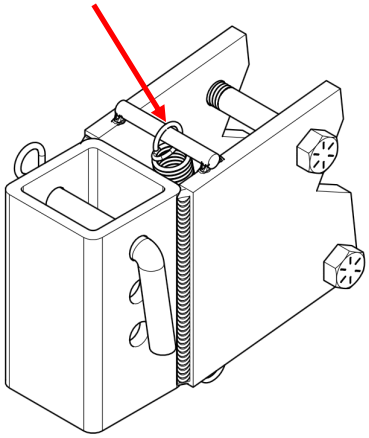
STEP 3 : INSERT THE STEM INSIDE THE RECEIVER TUBE

1) Thread a 1/2" Nut on to the HDL-01 handle.
2) Push the Stem through the Receiver Tube.
3) Push the HDL-01 handle through the top hole in the Stem.
4) Add a 1/2" Nut and tighten.
5) Hook the 109-0767 Adjustment Assist Spring to the hole in the Tab on the Mount.
6) Hook the opposite end of the 109-0767 Adjustment Assist Spring to the hole in the Tab of the Stem or on the piece of rod welded to the mount for 2" Stems.
7) Slide the 12B Locking Pin through the hole in the Stem.
8) Close wire retainer of the 12B Locking Pin.
9) RECHECK ALL BOLTS AND TIGHTEN IF NECESSARY.

NOTE: Adjustment in increments of 1/4" are achieved by installing the pin in one of the three holes in the receiver tube, which are 1" apart, and the holes in the stem, which are 3/4" apart.

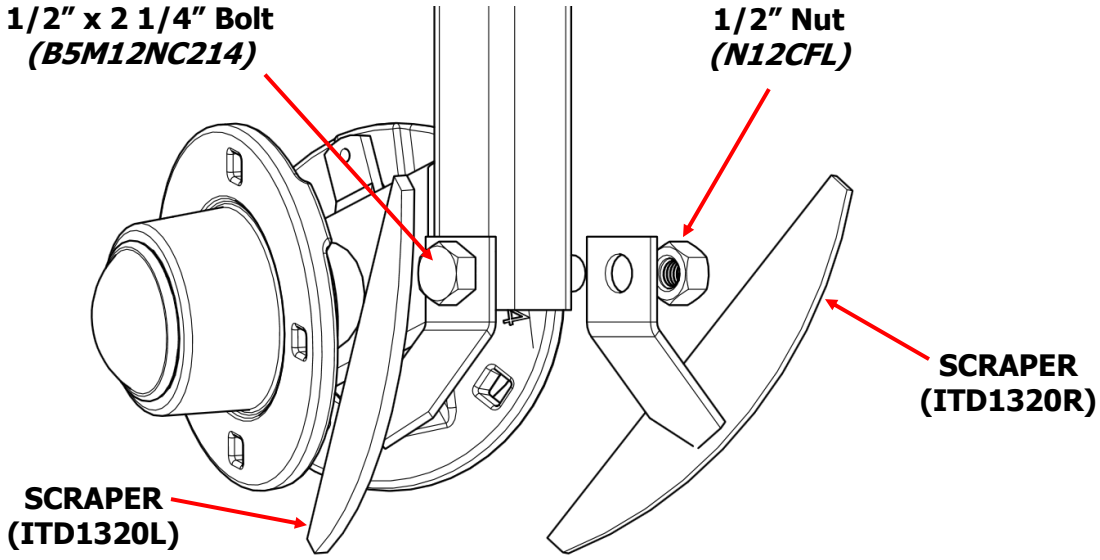


NOTE: Spring is installed behind the Stem for 2" Stems



STEP 4 : ONLY FOR NARROW ROW CLEANER WA1320N

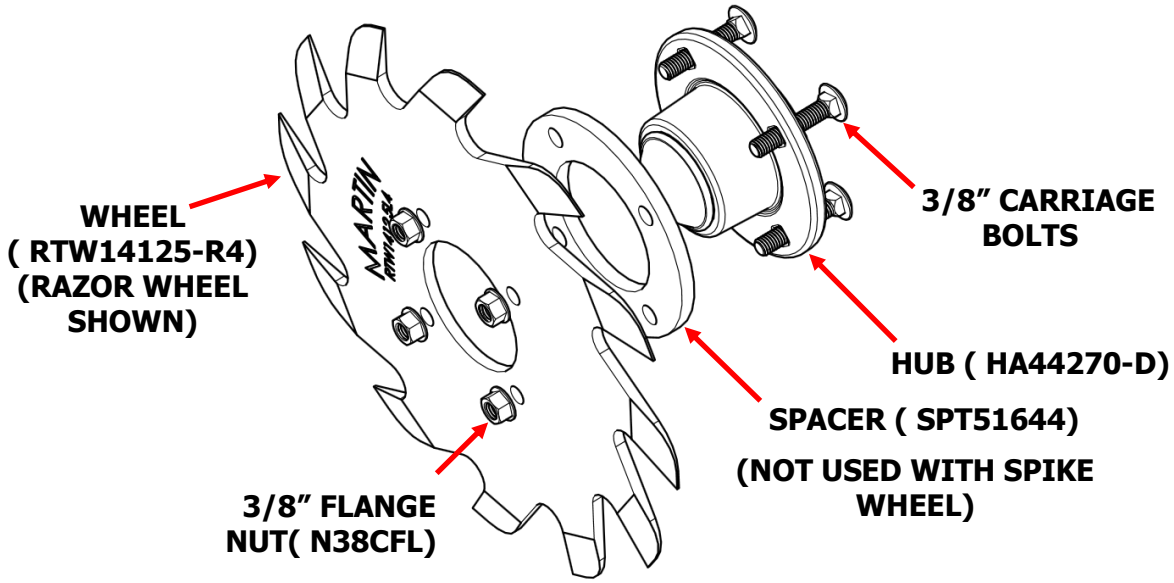
Only for WA1320N narrow row cleaner, Use the 1/2" x 2 1/4" bolt and the 1/2" nut to attach the ITD1320R and the ITD1320L scrapers to the WA1320 Stem as shown below, and go to the next step to assemble the wheels to the hubs and finish the installation.



STEP 5 : ASSEMBLE THE WHEEL TO THE HUB

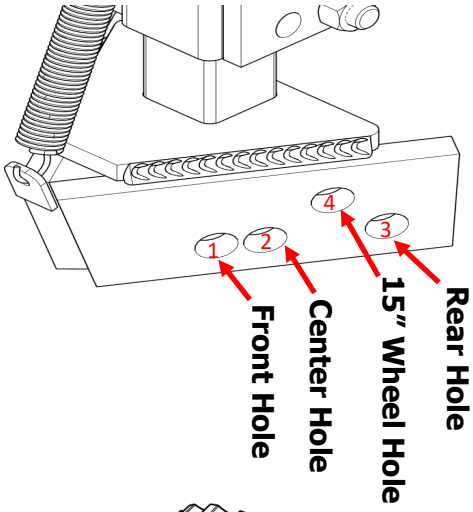
1) Install the wheel (part # to the outside) on the hub, using the four 3/8" carriage bolts and flange nuts. Torque to 23 ft-lbs. Re-tighten after first day's use.
2) The wheel marked TW3813-R4 or RTW14125-R4 is for use on the right side of the frame (as viewed from behind the machine). Repeat for opposite side.

IMPORTANT NOTE: You will receive the Spacer (SPT51644) if you order Razor Wheels (the Spacer doesn't come with Spike wheels). Install the Spacer between razor wheel and hub only in intersected position.(Option B in previous page)



IMPORTANT: Skip the remaining steps for WA1320N Narrow row cleaners

STEP 6 : DETERMINE THE BEST WHEEL CONFIGURATION FOR YOUR SOIL CONDITIONS



As shown in the picture, each Stem's side plate has four holes . One of the holes on each side must be selected based on your soil condition and your wheel size to attach the wheel assembly to the Stem.

The bottom three holes (Numbers 1 to 3 in the picture) are used only for 13" wheels as will be described in next page for different wheel configurations. The remaining hole (Number 4) is used for 15" wheels installation.

Three different wheel configurations are shown from the top views.

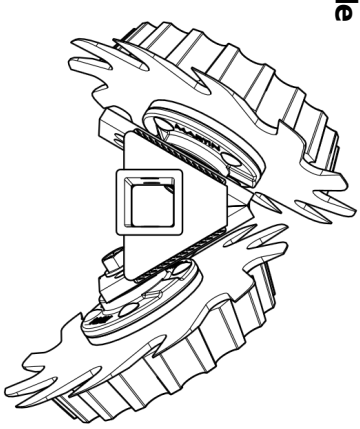
OPTION A: OFFSET

ONE WHEEL IN REAR HOLE (Hole number 3)

ONE WHEEL IN FRONT HOLE (Hole number 1)

The staggered configuration allows the wheels to turn more easily in loose soil.

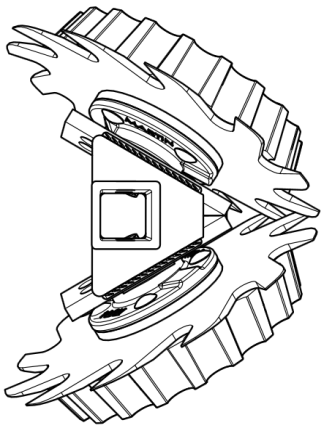
With this staggered configuration, we suggest running the left wheels in the rear hole on the half of the planter and the right wheels in the rear hole on the other half of the planter (when viewed from behind).



OPTION B: INTERSECTED

BOTH WHEELS IN CENTER HOLE (Hole number 2)

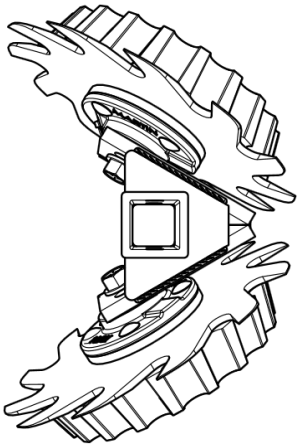
Both wheels forward provides maximum cleaning effect and the interlocked wheels till the middle of the seed row.



OPTION C: BOTH SIDES RETRACTED

BOTH WHEELS IN REAR HOLE(Hole number 3)

With wheels mounted in the back holes this is a Less aggressive setting.



STEP 7 : PROPERLY CONFIGURE THE D-LOCK DEFLECTOR (SCRAPER)

IMPORTANT: Skip this step if not using optional D-Lock Deflector (Scraper)

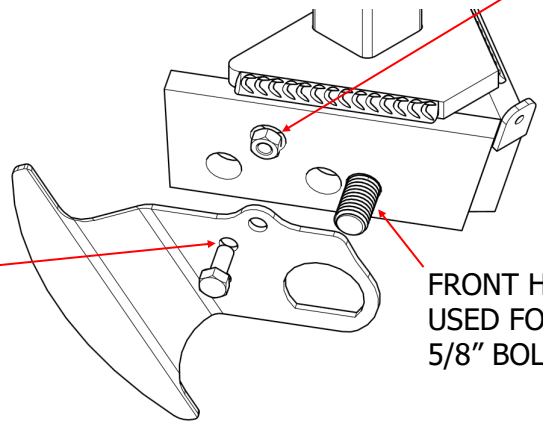
NOTE: *The D-Lock Deflector (Scraper) is not used with 15" wheel.*

NOTE: *The D-Lock Deflector (Scraper) is recommended (in place of the standard D-Lock) when operating in wetter conditions, or damp stringy residue, to reduce wrapping.*

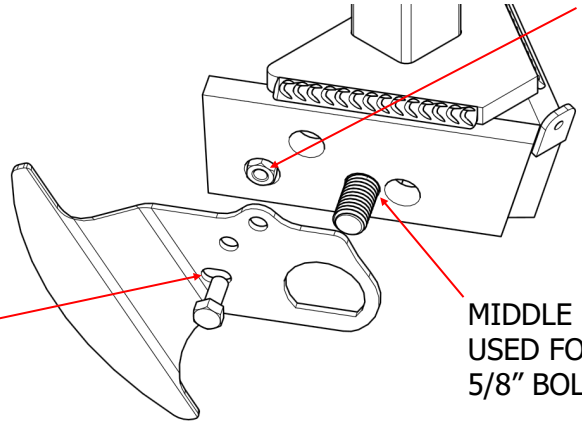
NOTE: *Either the D-Lock Deflector (illustrated below and on next page) or the D-Lock (illustrated on page 7) must be installed to allow the 5/8" bolt to tighten without the hub rotating.*

NOTE: *Proper location of the D-Lock Deflector is determined by wheel configuration chosen on previous page.*

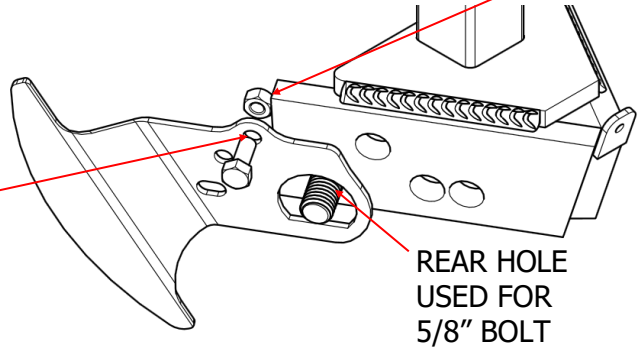
Wheel in front hole



Wheel in middle hole



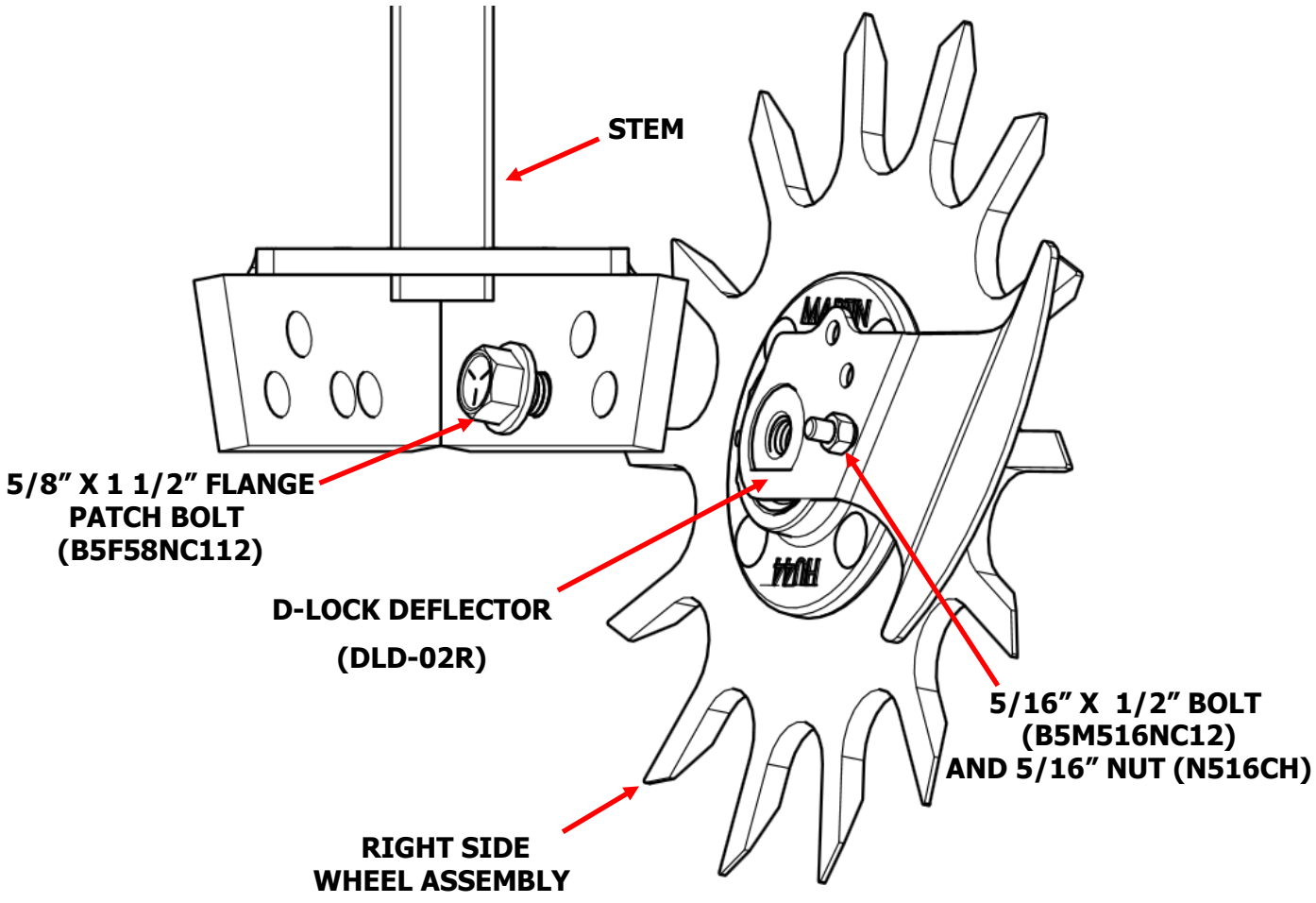
Wheel in rear hole



STEP 8: INSTALL WHEEL ASSEMBLIES USING OPTIONAL D-LOCK DEFLECTOR (SCRAPER)

IMPORTANT: Skip this step if not using optional D-Lock Deflector (Scraper)

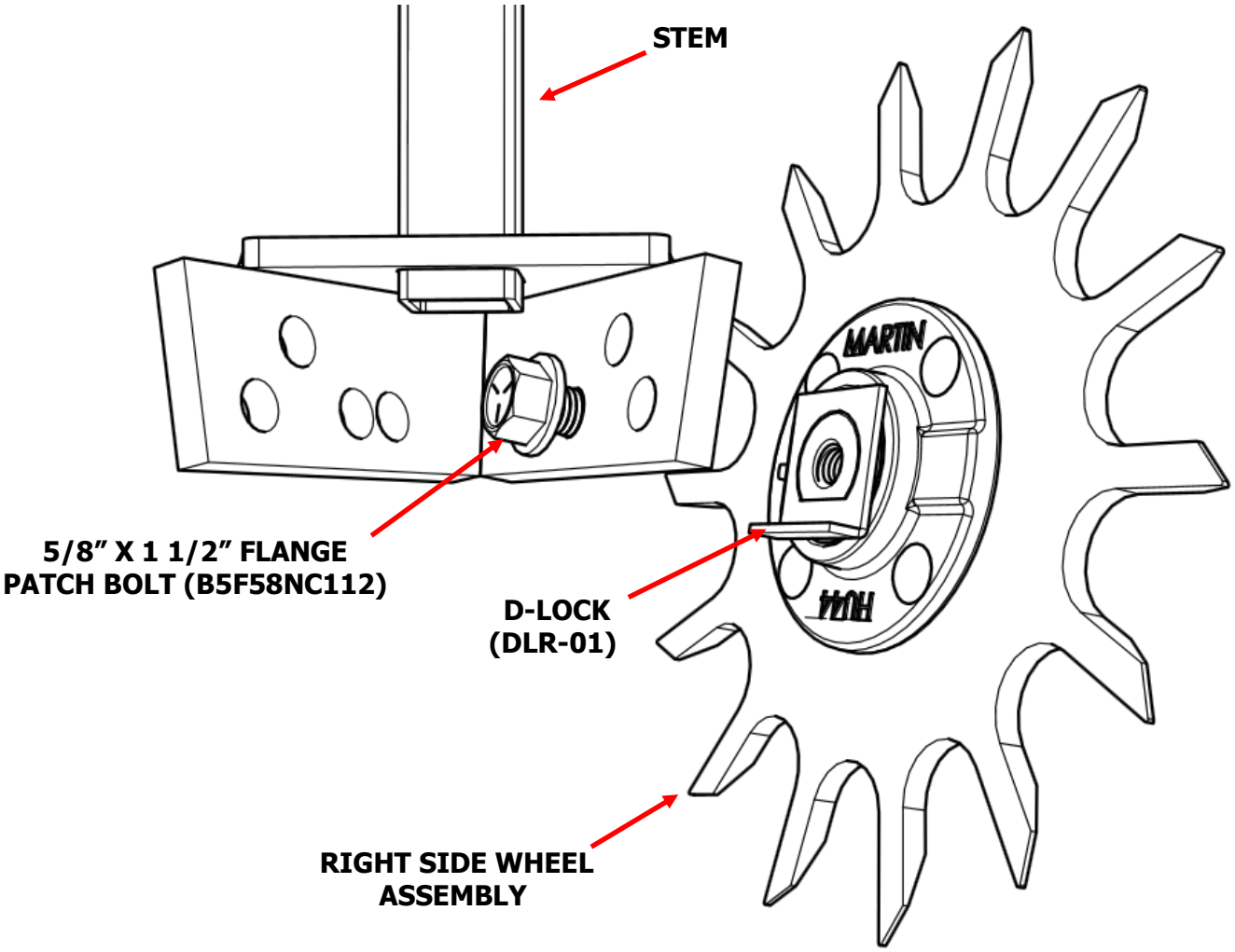
1) Place the 5/16" bolt in the correct hole of the D-Lock Deflector (looking at the figure on previous page) and tight it in place with the 5/16" nut.
2) Attach the D-Lock Deflector (DLD-02) to the end of the hub assembly, making sure it is flush with the end of the axle, before bolting the axle to the frame. The D-Lock Deflectors come in left and right side parts, install the right side D-Lock Deflector to the right wheel assembly as shown in the picture and repeat for opposite side.
3) Secure the hub to the frame with the 5/8" flange patch bolt. Using a torque-wrench, tighten to 112 ft-lbs. Re-tighten after first day's use.



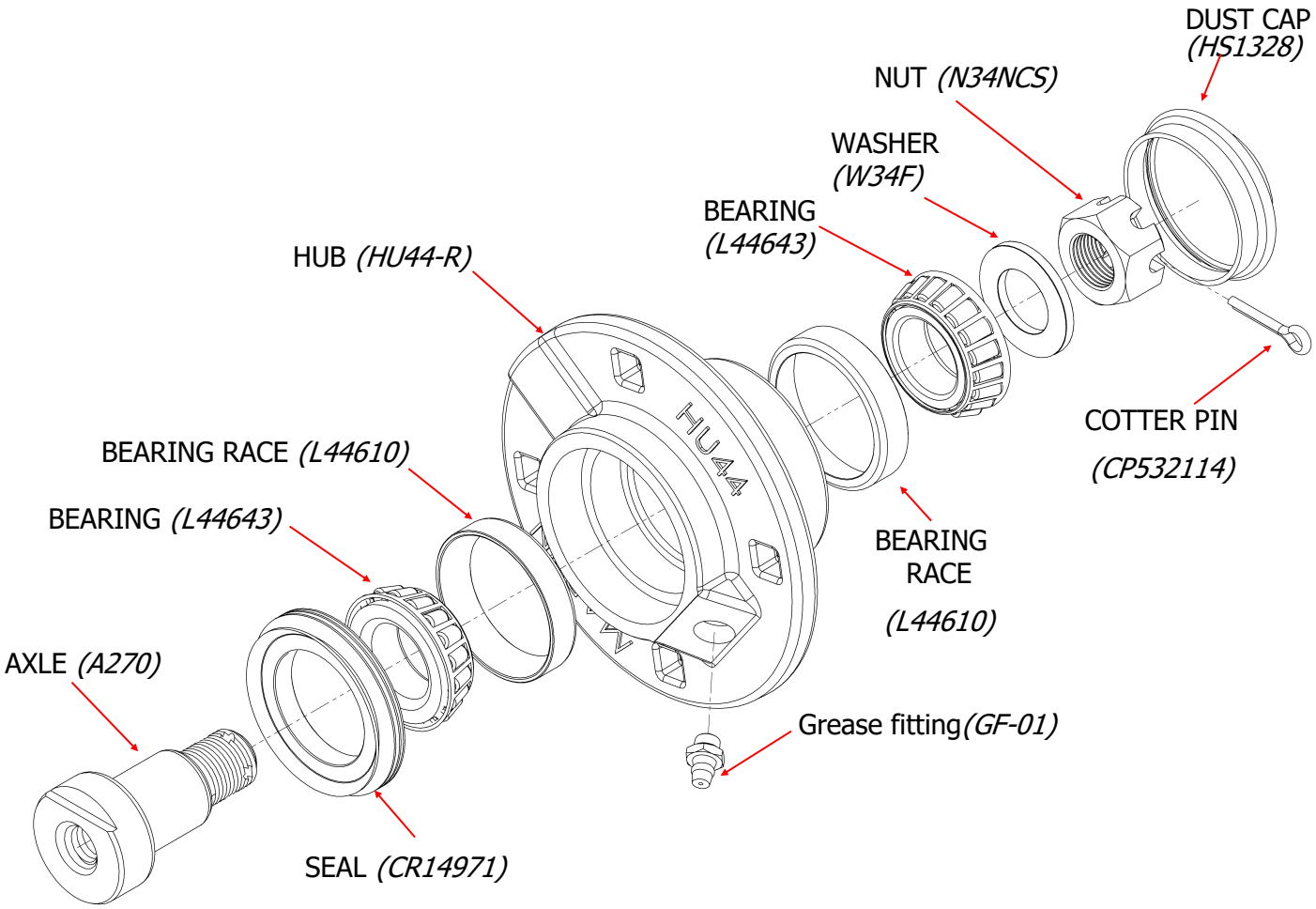
STEP 9: INSTALL WHEEL ASSEMBLIES USING STANDARD D-LOCK

1. Attach the D-lock to the end of the hub axle making sure it is flush with the end of the axle before bolting the axle to the frame.
2. Secure the hub to the frame with the 5/8" bolt. Using a torque-wrench, tighten to 112 ft-lbs. Re-tighten after first day's use.
3. Repeat process for opposite side .

NOTE: Long D-LOCKs are provided for 15" wheel to be used on the top holes.



PARTS LIST FOR 1360 HUB ASSEMBLY (HA44270-D)



Row Cleaner Hub Preventative Maintenance

The Row Cleaner hub is designed to be "flushed out" with lubrication, without damaging the triple lip seal. To "flush" the hub, lubricate until fresh grease is visible around the seal.

- In most conditions annual lubrication of the Row Cleaner hub is sufficient
- More frequent lubrication is recommended in dusty or sandy conditions

NOTE: *Hubs may feel tight when first installed. They will loosen after they "run in".*

Row Cleaner Hub Bearing Preload Adjustment

Maintaining proper bearing preload is crucial to bearing life. Monitor and adjust annually. To adjust:

- Remove the dust cap
- Remove the cotter pin
- Tighten the 3/4" nut until you feel zero end play
- Gently back the nut off, leaving .01" - .012" end play
- Replace the cotter pin and dust cap

NOTE: *End play is checked by pulling out on the top of the wheel while pushing in on the bottom.*

The most trusted name in no-till
Established 1991

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