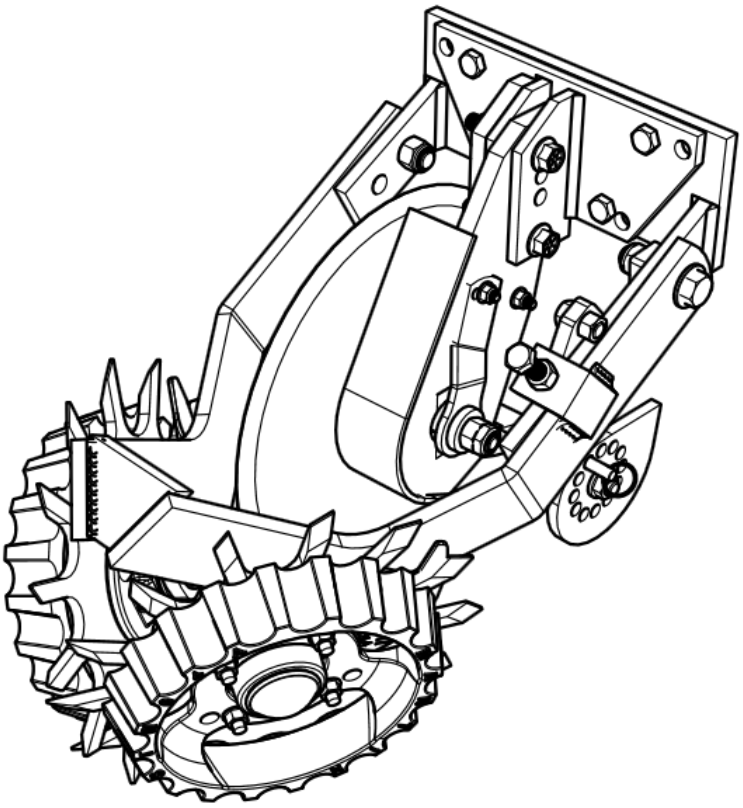
C125 & UMO-C125

APPLIES TO ALL C125 ROW CLEANER

INSTALLATION INSTRUCTIONS



SHOWN WITH OPTIONAL SIDE TREADER WHEELS (*STW-04)* & CAM ADJUST *(CA02)*

Martin Planter Attachments

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VERSION 02 15 2018

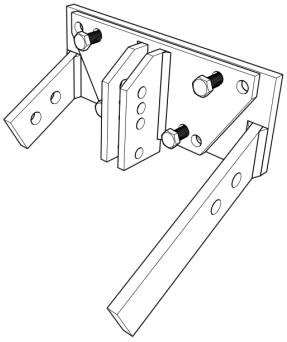
STEP 1 : ATTACH THE MOUNT TO THE PLANTER

Put the mount on the planter's face plate and find the right hole pattern on the mount that place the mount to the center of the face plate. Using four 1/2" X 1 1/2" bolts, attach the Mount to the Planter's face plate, and torque mounting nuts to 57 ft-lbs. Please note that in short brackets (C125MTS), the bracket ears point backward. As a rule of thumb, always install the long leg of the mount pointing to the rear of the planter.

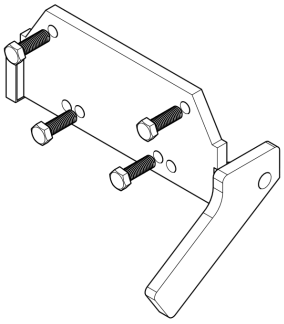
For CaseIH 1200 series planter, use provided two 1/2" X 3 1/2" Grade 8 bolts and nuts . Torque to 80 ft-lbs .

If your Planter is equipped with a unit mounted no-till coulter or a unit mounted fertilizer sprayer, you need to uninstall the unit and reinstall it on the C125 mount Using longer bolts.

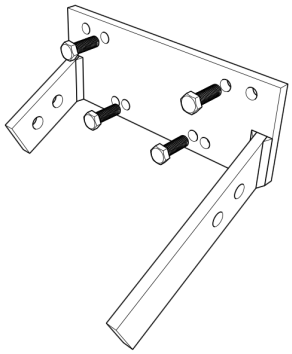
If you have purchased the Martin UMO-100 Fertilizer Opener, then you have received a UMO bracket. Install the UMO bracket on the C125 bracket using provided 1/2" X 2" bolts.



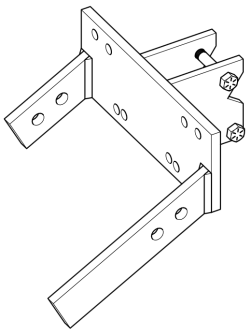
C125MTR + UMO MTA



C125MTS



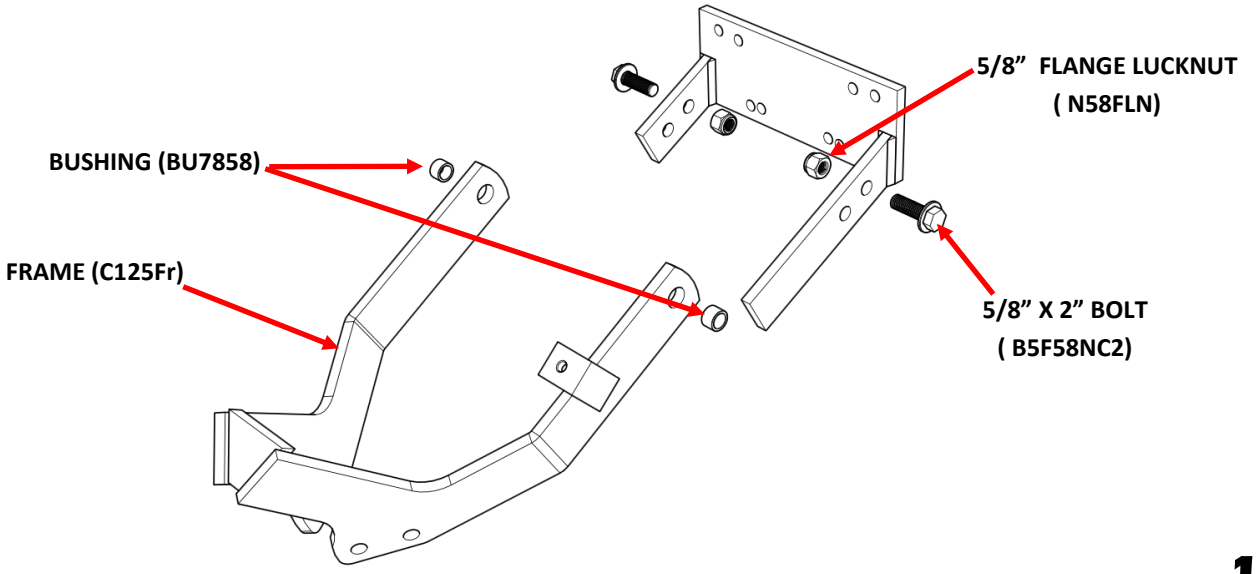
C125MTR



C125MTR_IH

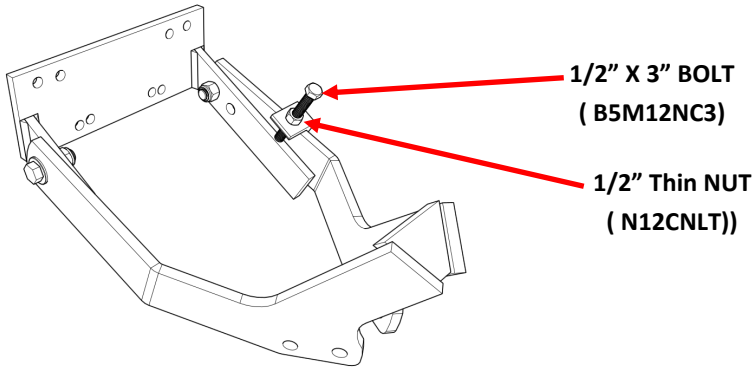
STEP 2: ATTACH C125 FRAME ASSEMBLY TO THE MOUNT

1. Place the bushings (BU7858) inside the frame's arms pin point holes.
2. Align the holes in the mount and the frame assembly. Insert the 5/8" x 2" bolts and washers (you have not received washers if you are provided with flange bolts instead of HEX bolts) from the outside and place nuts on the 5/8" x 2" bolts from inside.
3. Tighten the bolts to 112 ft-lbs. Check after first day of use.
4. Check to ensure the frame is not binding on the mounting bracket and is free to float up and down.



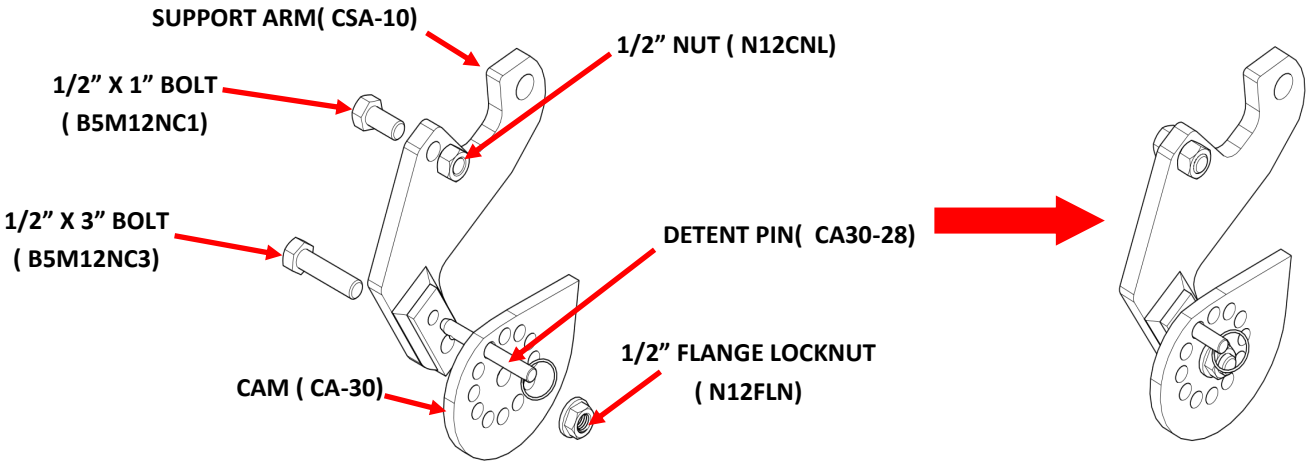
STEP 3 : INSTALL THREADED ADJUSTMENT ASSEMBLY

1. Put the 1/2" nut on the 1/2" x 3" bolt and thread the bolt into the tapped hole of the frame adjustment tab. Use the 1/2" nut to lock the 3" adjustment bolt in place once the desired minimum depth setting has been determined.

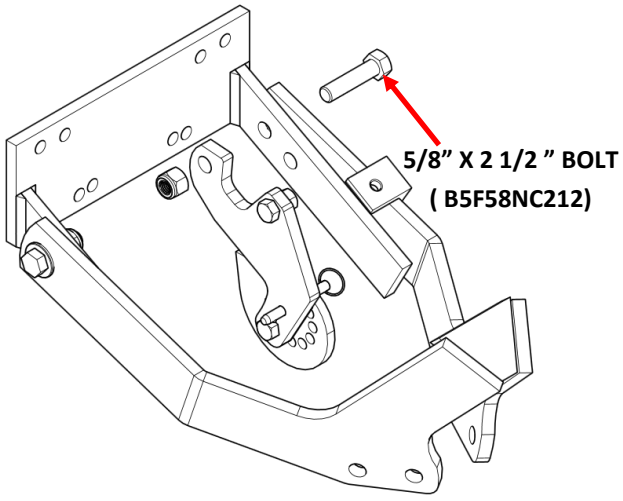


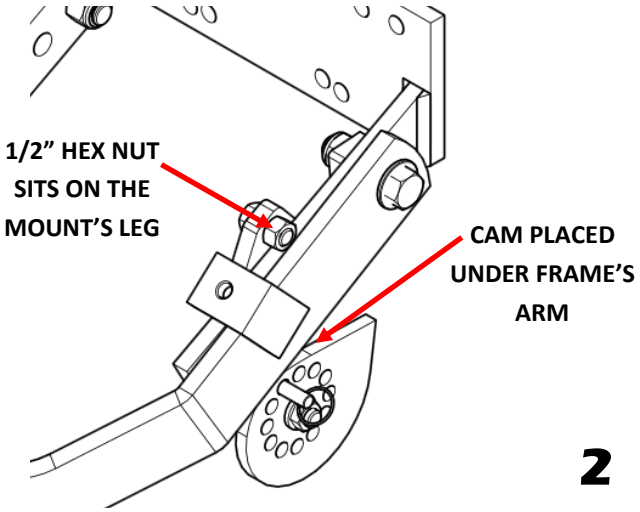
INSTALL THE OPTIONAL CAM ADJUSTMENT ASSEMBLY

1. Build the cam assembly as it is shown in the picture.



2. Remove 5/8" X 2" left hand pivot bolt and install the cam assembly using the 5/8" X 2 1/2" bolt as shown in the picture. The 1/2" hex nut should be resting on the mount leg , and the cam should place under the frame arm as shown in the picture.
3. Using 3/4" wrench, rotate cam to achieve desired height. Secure with detent pin.



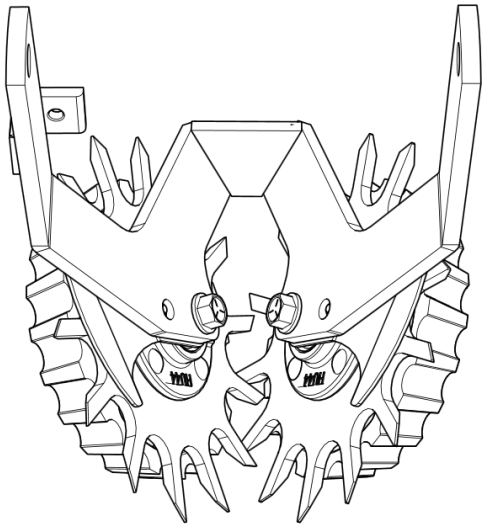


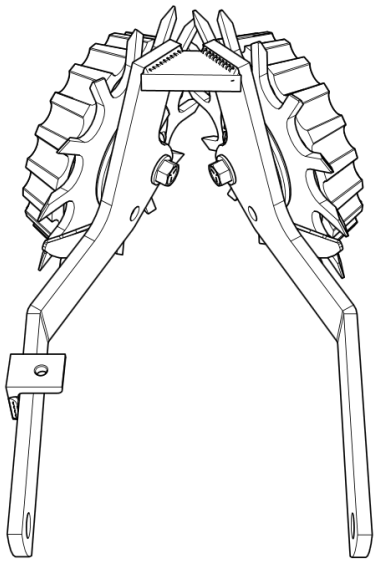
STEP 4 : DETERMINE THE BEST WHEEL CONFIGURATION FOR YOUR SOIL CONDITIONS

OPTION A: INTERSECTED

(Both wheels in front hole)

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



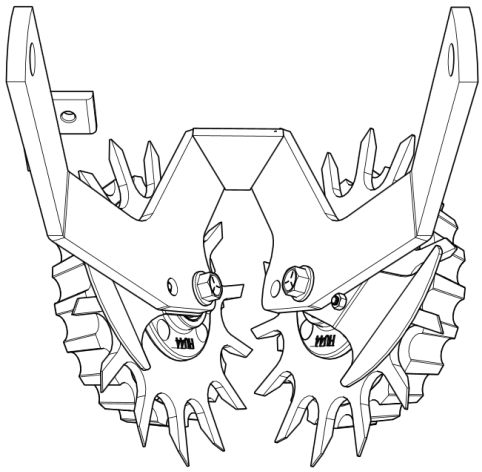


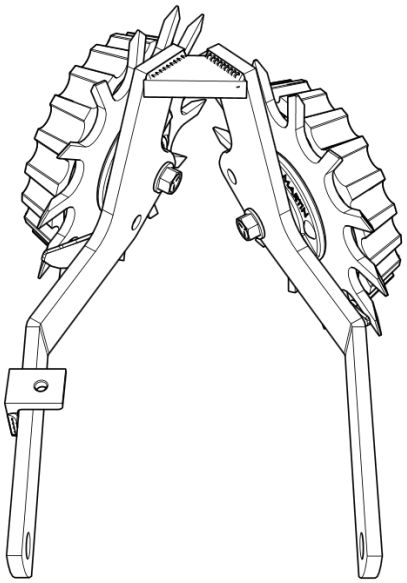
OPTION B: OFFSET

(Left wheel in front hole and right wheel in rear hole)

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

With this 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).





STEP 5 : INSTALL WHEEL ASSEMBLIES

IMPORTANT: Skip to Step 5C if not using optional D-Lock Deflector (Scraper)

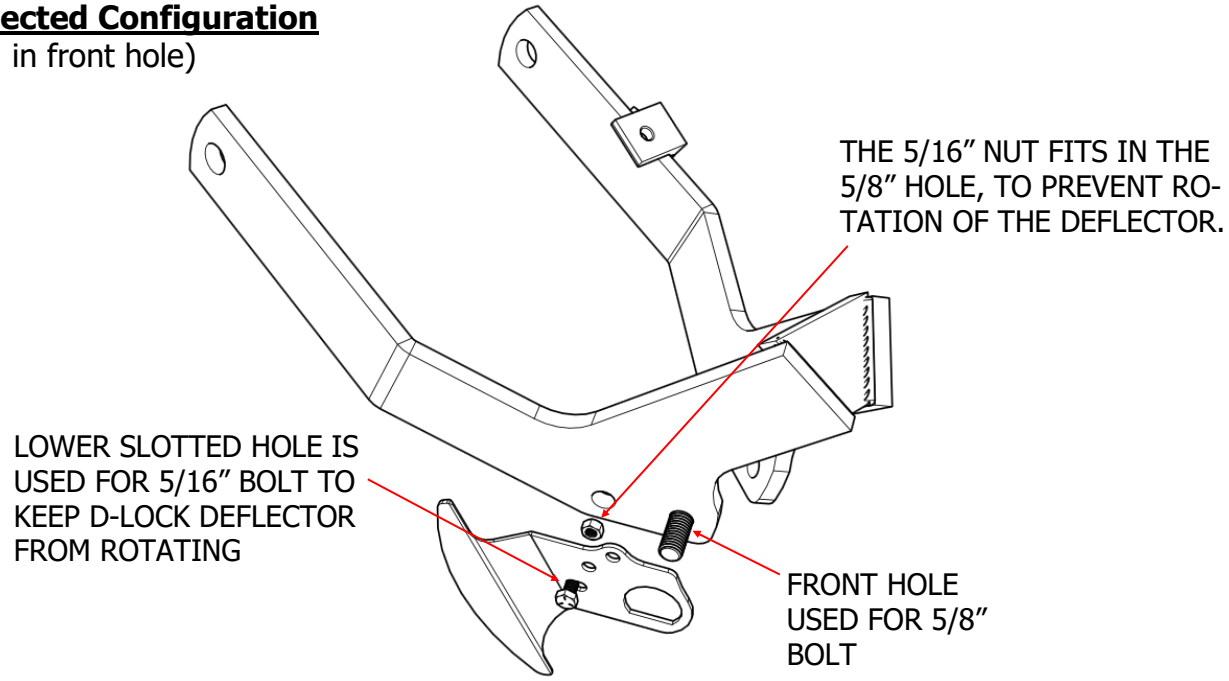
NOTE: *The D-Lock Deflector (Scraper) is recommended (in place of the standard D-Lock) when operating in wetter conditions, or damp stringy residue, to reduce wrapping.*

NOTE: *Either the D-Lock deflector (illustrated below and on next page) or the D-Lock (illustrated on page 6) must be installed to allow the 5/8" bolt to tighten without the hub rotating.*

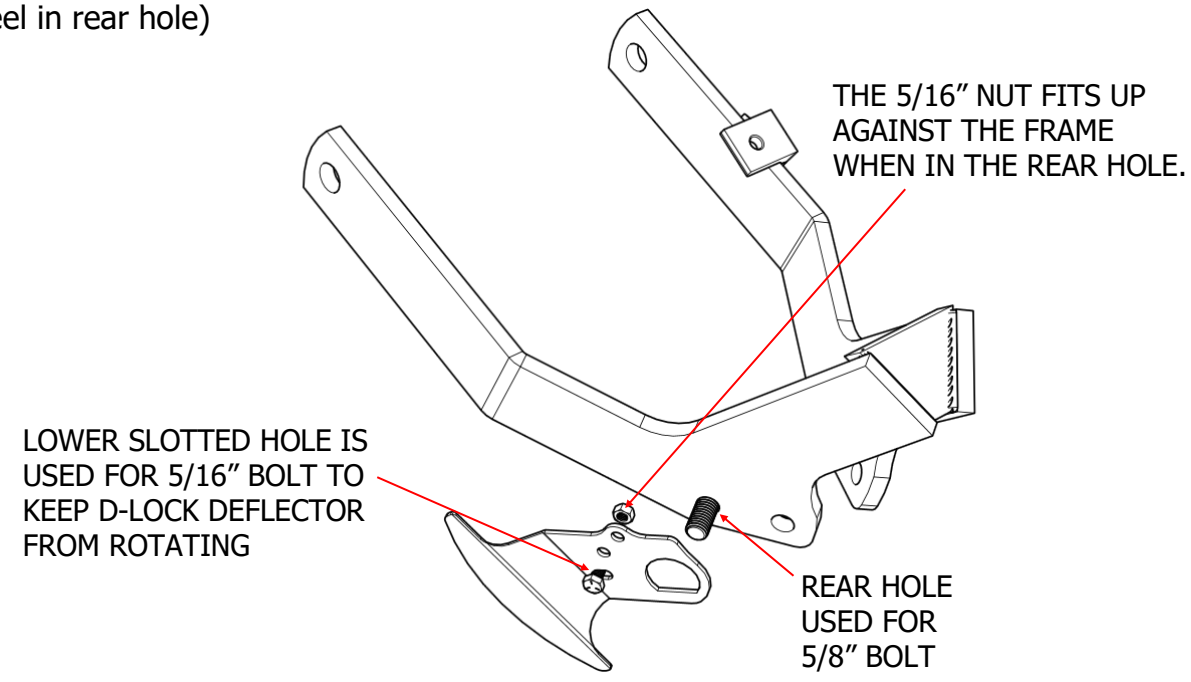
NOTE: *Proper location of the D-Lock Deflector is determined by wheel configuration chosen on previous page .*

STEP 5A: PROPERLY CONFIGURE THE D-LOCK DEFLECTOR (SCRAPER)

Intersected Configuration
(Wheel in front hole)

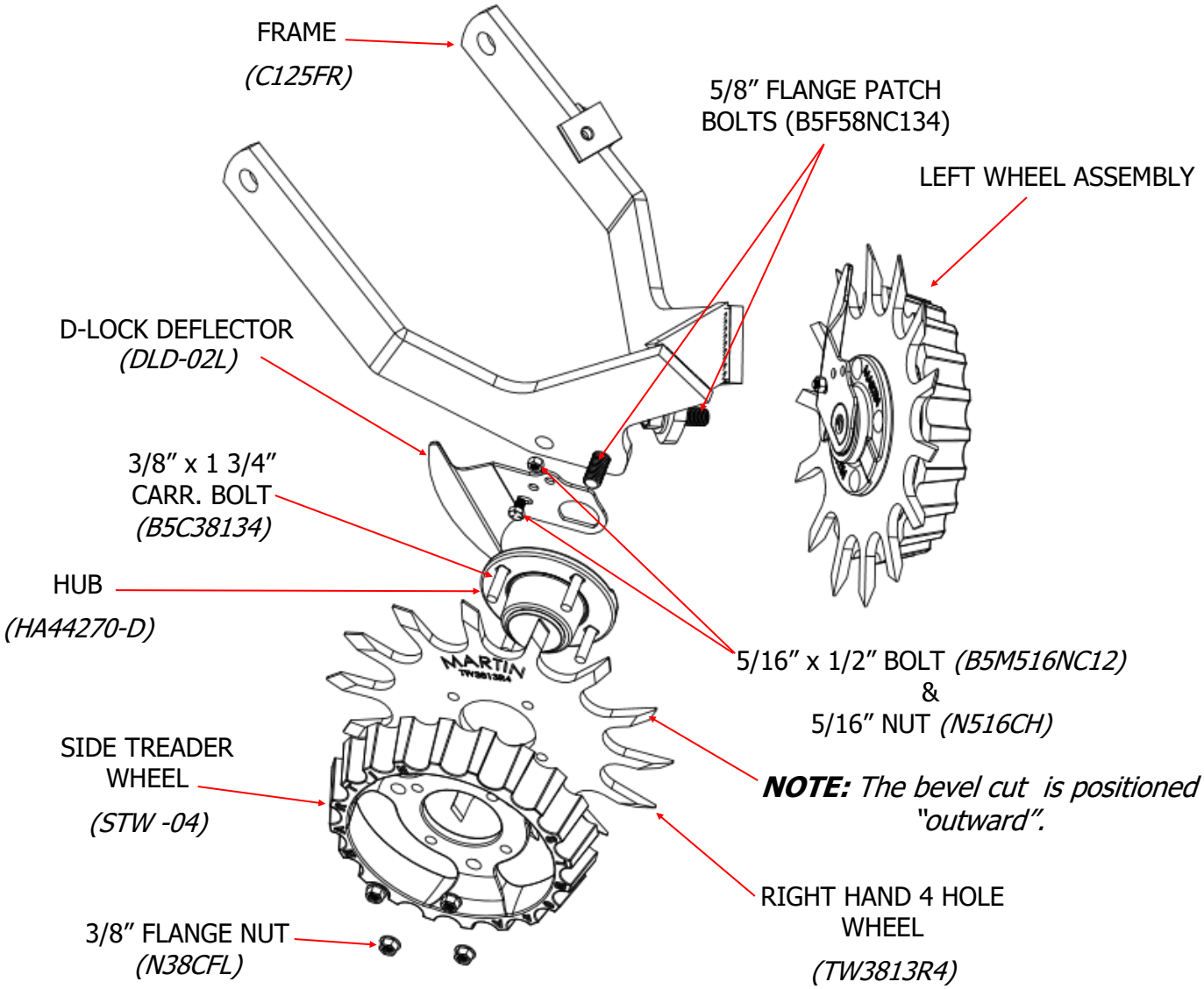


Offset Configuration
(Wheel in rear hole)



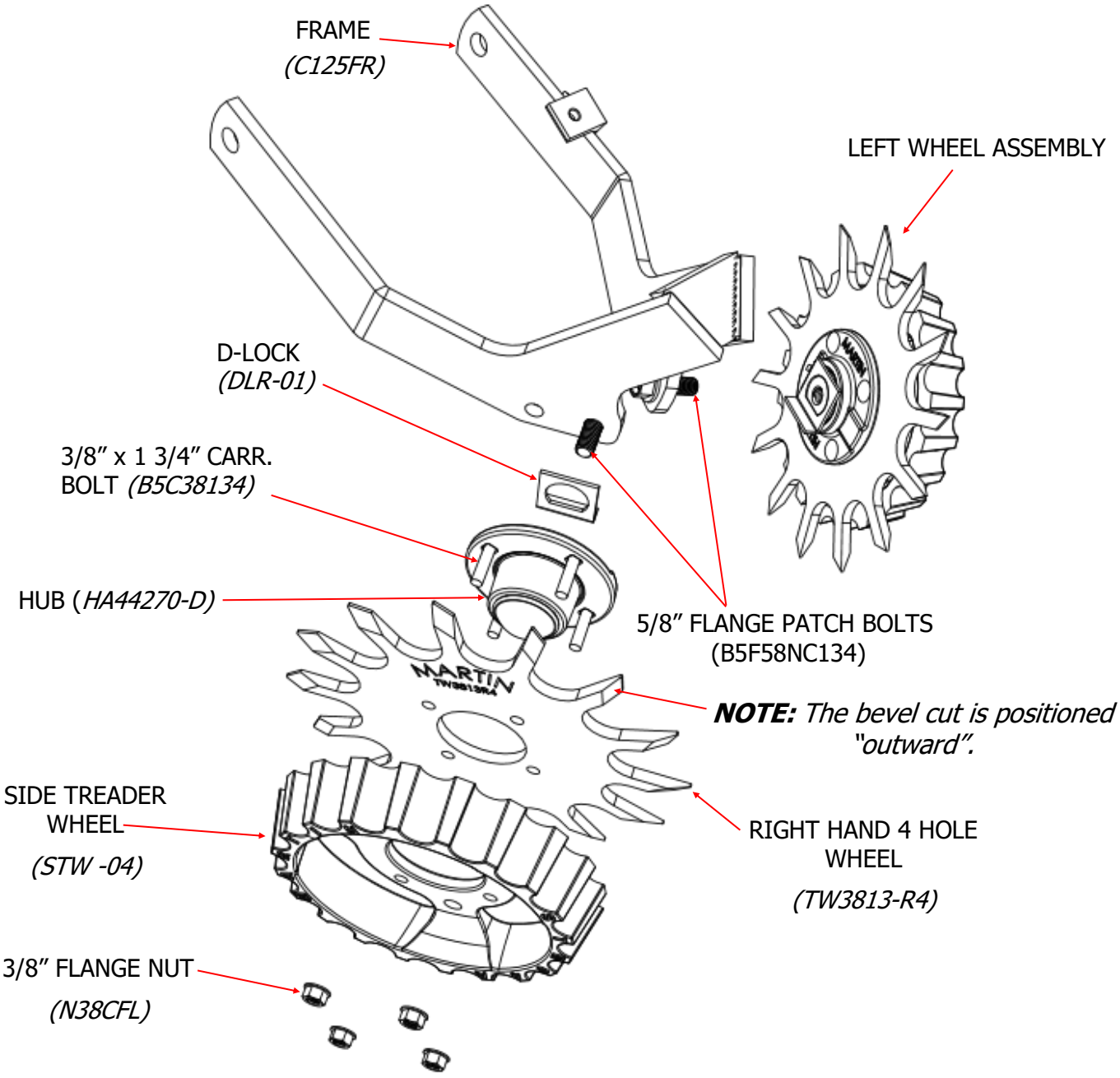
STEP 5B: INSTALL WHEEL ASSEMBLIES USING OPTIONAL D-LOCK DEFLECTOR (SCRAPER)

1) Attach the D-lock deflector (DLD-02L) 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. (For placement of 5/16" stop bolt see figure on previous page)
2) 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.
3) Install the wheel (part # to the outside) and side treader wheel on the hub, using the four carriage bolts and flange nuts. Torque to 23 ft-lbs. Re-tighten after first day's use.
4) The wheel marked TW3813-R4 is for use on the right side of the frame (as viewed from behind the machine). Repeat for opposite side.



STEP 5C: 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. Install the wheel (part # to the outside) and side treader wheel on the hub, using the four carriage bolts and flange nuts. Torque to 23 ft-lbs. Re-tighten after first day's use.
4. The wheel marked TW3813-R4 is for use on the right side of the frame (as viewed from behind the machine). Repeat for opposite side.

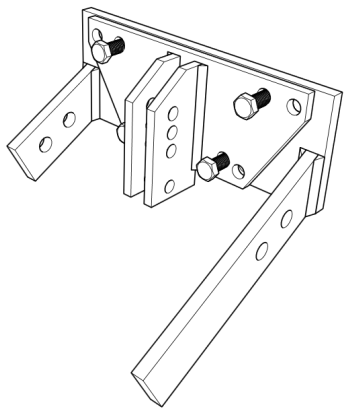


UMO100 FERTILIZER OPENER INSTALLATION INSTRUCTION

Disregard the remaining steps if you didn't purchase the UMO-100 unit

The coming steps are the instructions for installation of the Martin-Till Unit Mounted Fertilizer Opener (UMO -100).

UMO-100 is a universal unit installed on C125, 1360 and 1345 martin row cleaners. During the UMO-100 instruction, some of the pictures are shown with MT1360 DU mount. However, the installation process is similar for C125 mounts with installed UMO-MTA, UMO-MTJ or UMO-MTW Brackets.



C125MTR + UMO MTA

STEP 6 : DETERMINE DESIRED FERTILIZER PLACEMENT

The Martin-Till Unit Mounted Fertilizer Opener (UMO — 100) allows you to place fertilizer in three different horizontal (offset), and three different vertical (depth), distances from the seed.
The options on STEP 6A determine the vertical distance from the seed (depth).
The options on STEP 6B determine the horizontal distance from the seed (offset).

STEP 6A: UMO — 100 DEPTH SETTING OPTIONS

Looking at the pictures of the next page, select one of the following UMO vertical installation positions (A, B, or C)

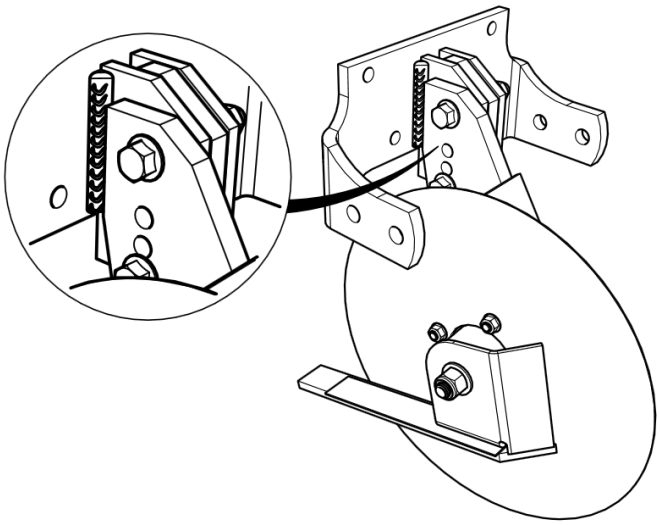
Position A:
The top bolt passes through the first holes of the mount and the UMO. The bottom bolt passes through the fifth hole of the mount and the forth hole of the UMO. This position will place the fertilizer 3/4" above seed depth.

Position B: (RECOMMENDED)
The top bolt passes through the second hole of the mount and the first hole of the UMO. The bottom bolt passes through the fifth holes of the mount and the third hole of the UMO. This position will place the fertilizer "even" with seed depth.

Position C:
The top bolt passes through the third hole of the mount and the first hole of the UMO. The bottom bolt passes through the fifth holes of the mount and the second hole of the UMO. This position will place the fertilizer 3/4" below seed depth.

Position A

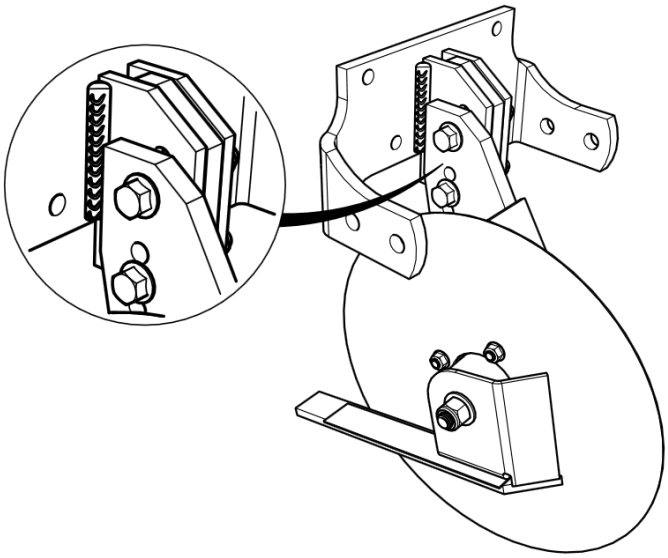
3/4” above seed depth



Position B

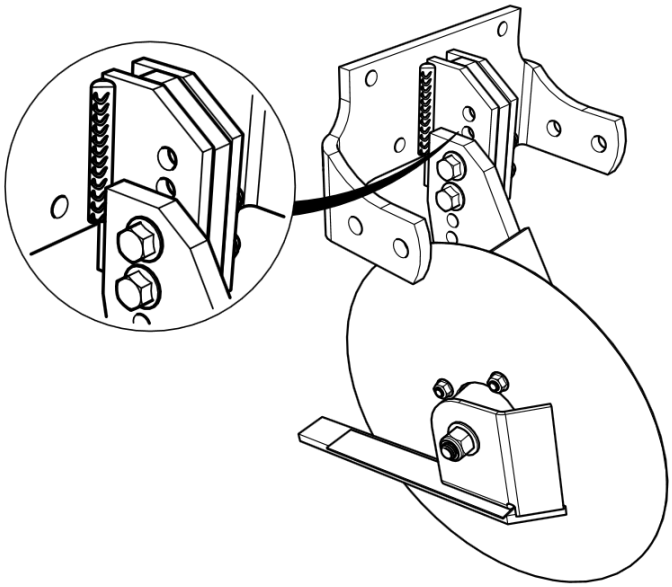
Even with seed depth

(Recommended)



Position C

3/4” below seed depth

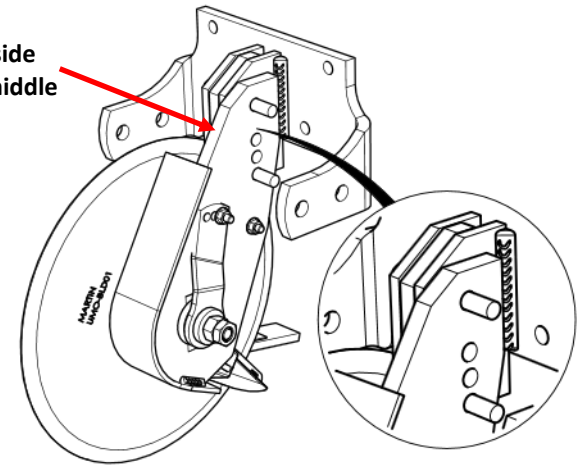


STEP 6B: UMO — 100 OFFSET SETTING OPTION

Three different offset settings are shown in the pictures. The UMO can be installed to the right side (Offset 1" from seed furrow), in between (Offset 2" from seed furrow), or to the left side (Offset 3" from seed furrow) of the mount flanges. Place the UMO-12 spacer bar according to the pictures.

Select one of the following UMO horizontal installation positions (A, B, or C)

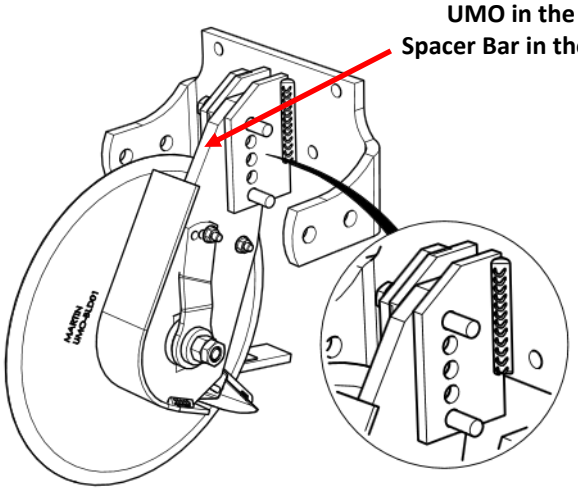
UMO in the Left side
Spacer Bar in the middle



Position A: Offset 1" from seed furrow

*Recommended for fertilizer application rates of 10 GPA and under.

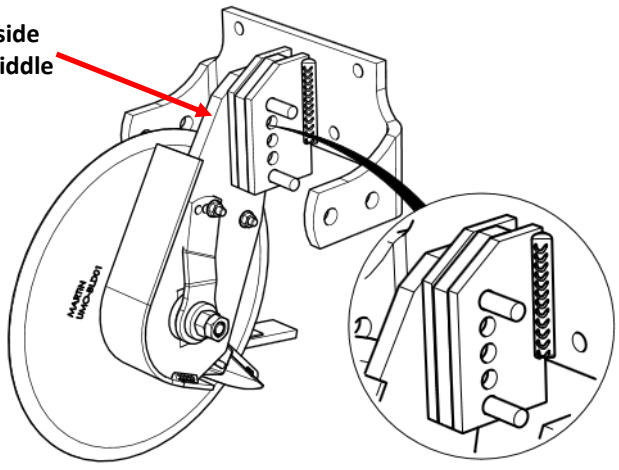
UMO in the Middle
Spacer Bar in the Right side



Position B: Offset 2" from seed furrow

*Recommended for fertilizer application rates of 10-20 GPA.

UMO in the Right side
Spacer Bar in the middle



Position C: Offset 3" from seed furrow

*Recommended for fertilizer application rates of 20-30 GPA.

NOTE:

**Recommendations based on general rule of thumb of 1" offset for every ten gallons of fertilizer applied per acre.*

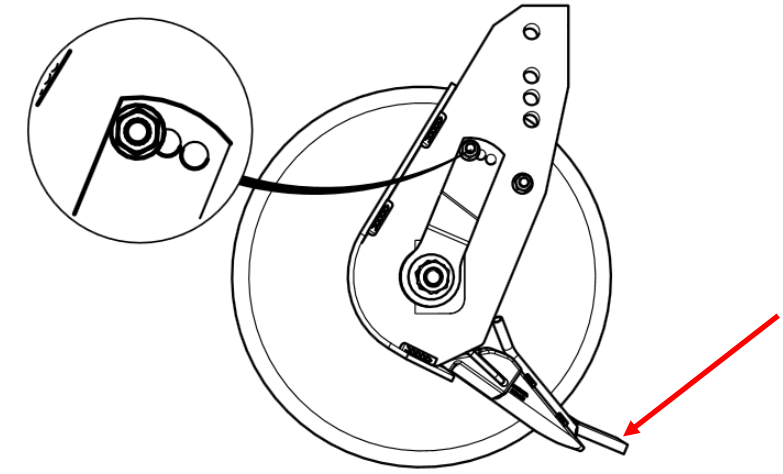
**Consult with your agronomist for specific application rate information unique to your operation, soil properties, and conditions.*

STEP 7: ATTACH UMO-100 TO THE MOUNT

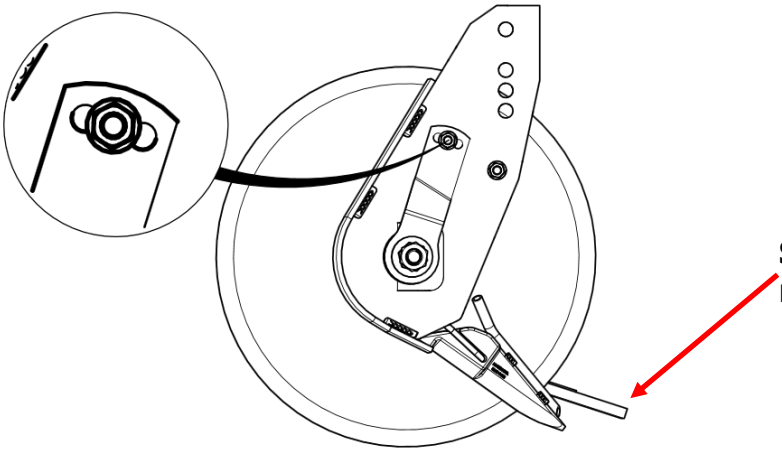
After selecting the desired depth and offset settings, attach the UMO-100 to the mount using two 1/2" X 3" flange bolts, and flange locknuts, provided for you. Torque the bolts to 80 ft-lbs. You may want to adjust the furrow control lever ground pressure according to the bellow pictures.

***NOTE:** *Confirm half of UMO's are left sided and half are right sided for proper planter drafting.*

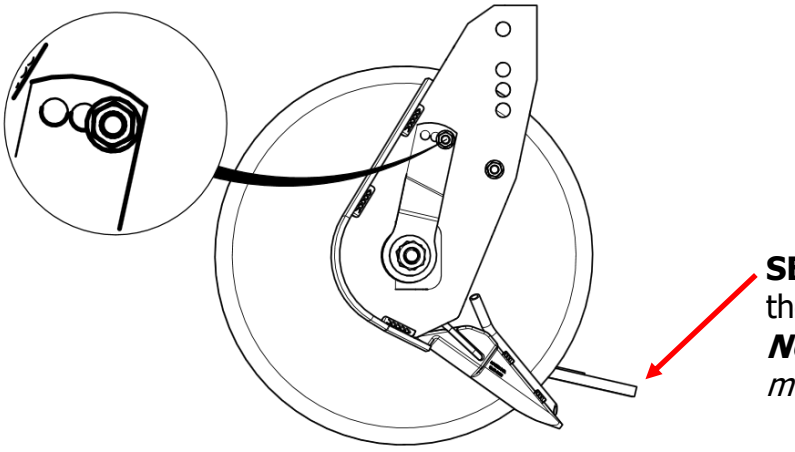
FURROW CONTROL LEVER GROUND PRESSURE ADJUSTMENT



SETTING #1: This configuration provides maximum ground pressure.



SETTING #2: This configuration provides medium ground pressure.



SETTING #3: This configuration provides the least ground pressure.
***NOTE:** This is the default and recommended position.*

MAINTENANCE TIPS

C125 Row Cleaner Hub Preventative Maintenance

The C125 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 C125 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".*

C125 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*

UMO — 100 Hub Preventative Maintenance

The UMO 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 worked ground, lubricate every 20 hours of run time
- In No-Till ground, lubricate every 40 hours of run time

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

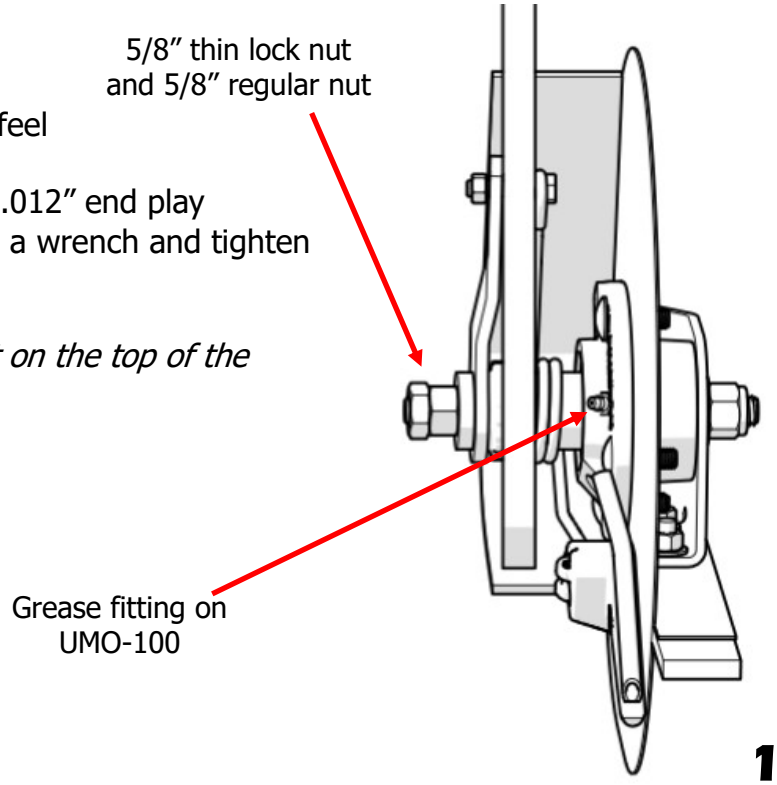
UMO — 100 Hub Bearing Preload Adjustment

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

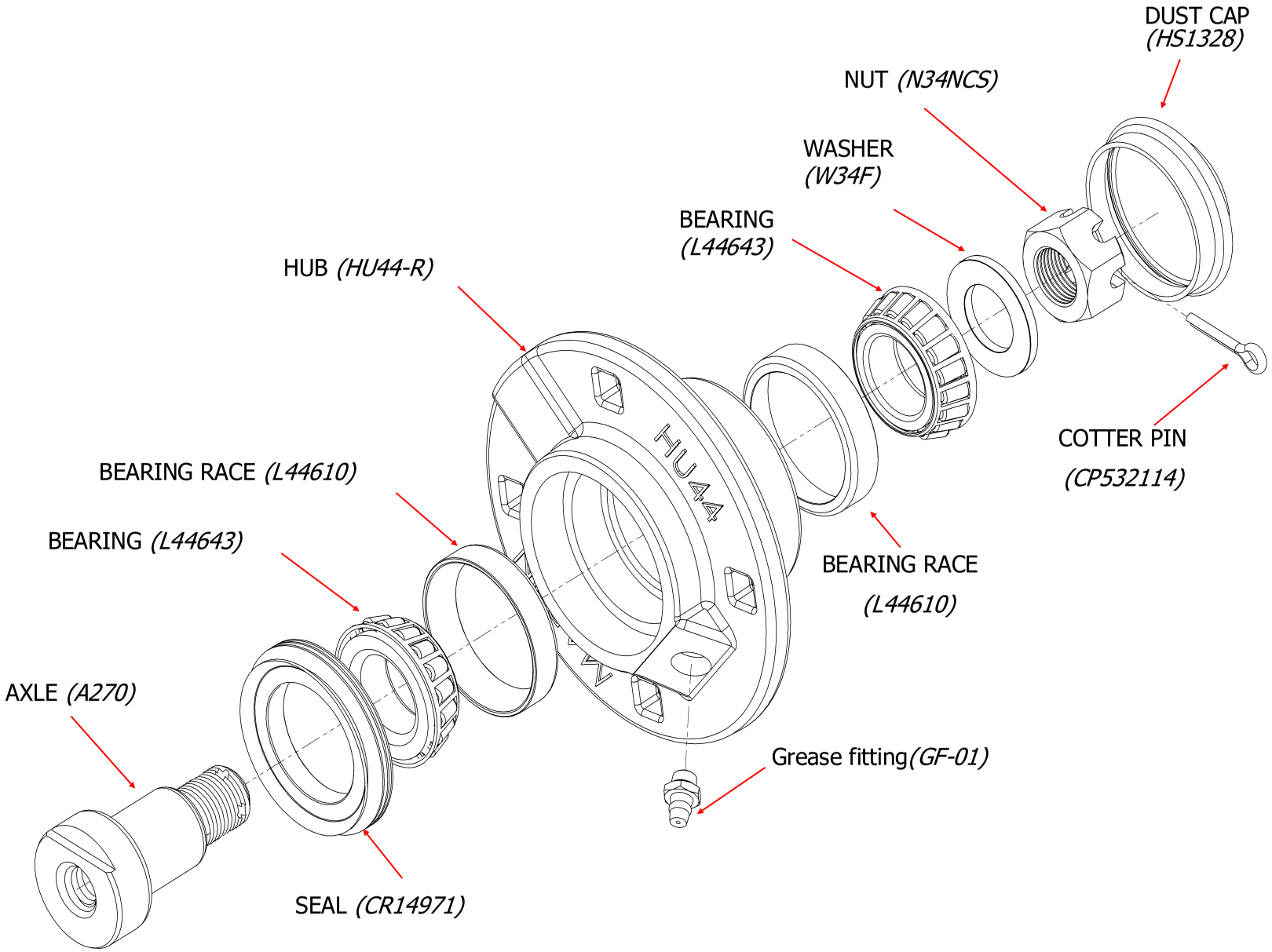
To adjust:

- Loosen the 5/8" thin lock nut
- Tighten the 5/8" regular nut until you feel zero end play
- Gently back the nut off, leaving .01" - .012" end play
- Hold the 5/8" regular nut in place with a wrench and tighten the 5/8" thin lock nut

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

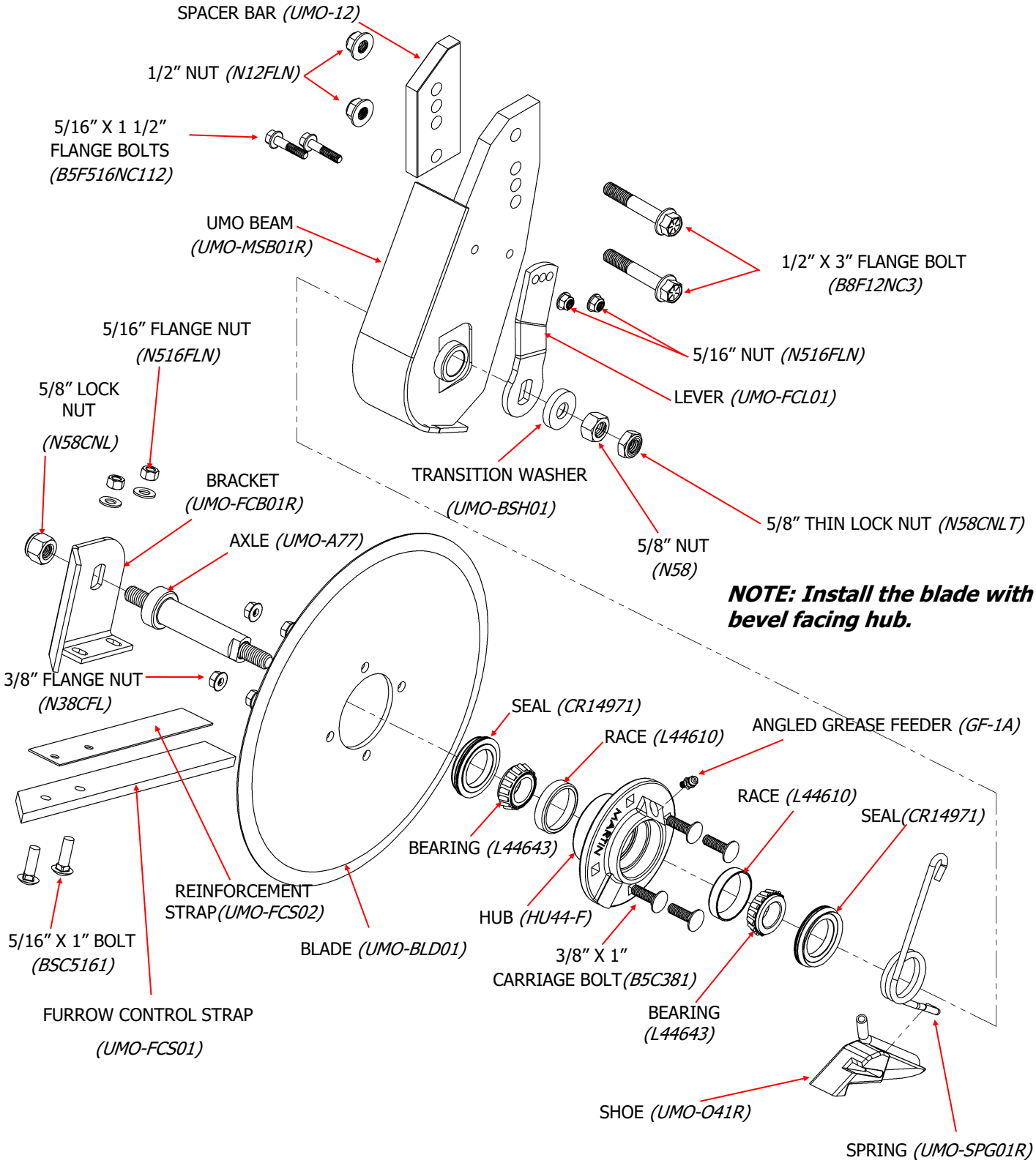


PARTS LIST FOR 1360 HUB ASSEMBLY (HA44270-D)



PARTS LIST FOR UMO-100

UMO — 100R shown, UMO — 100L (not shown) is the opposite side



NOTE: *UMO-100R SHOWN*

- R DESIGNATES RIGHT HAND PARTS
- L DESIGNATES LEFT HAND PARTS

The most trusted name in no-till

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