

UMO100

UNIT MOUNTED FERTILIZER OPENER

INSTALLATION INSTRUCTIONS



Martin Planter Attachments

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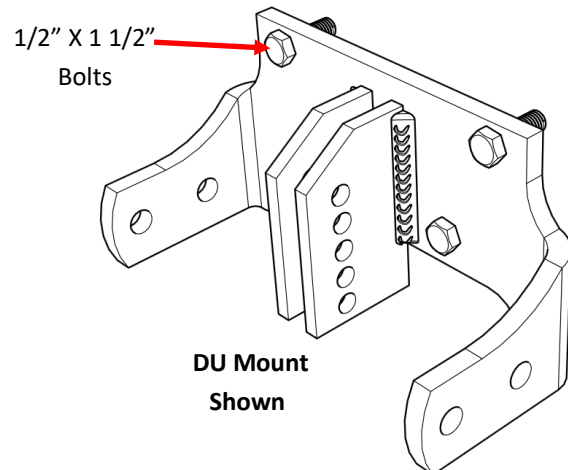
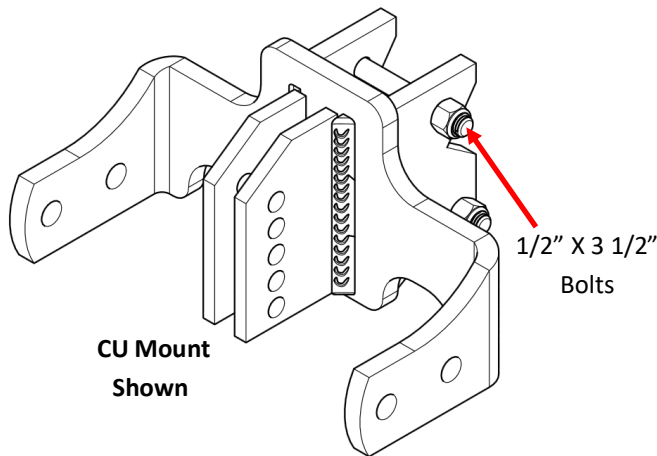
VERSION 04 04 2019

STEP 1 : ATTACH THE MOUNT TO THE PLANTER

Use a square or a level tool to make sure that the planter base plate is set parallel to the Planter's W-Bracket (The bracket that attaches the planter to the tool bar).

Using four 1/2" X 1 1/2" bolts, attach the Mount to the Planter's base plate, and torque mounting nuts to 57 ft-lbs (Right Picture).

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



STEP 2 : 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 2A determine the vertical distance from the seed (depth).

The options on STEP 2B determine the horizontal distance from the seed (offset).

STEP 2A: UMO — 100 DEPTH SETTING OPTIONS

Looking at the pictures of page 3, 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.

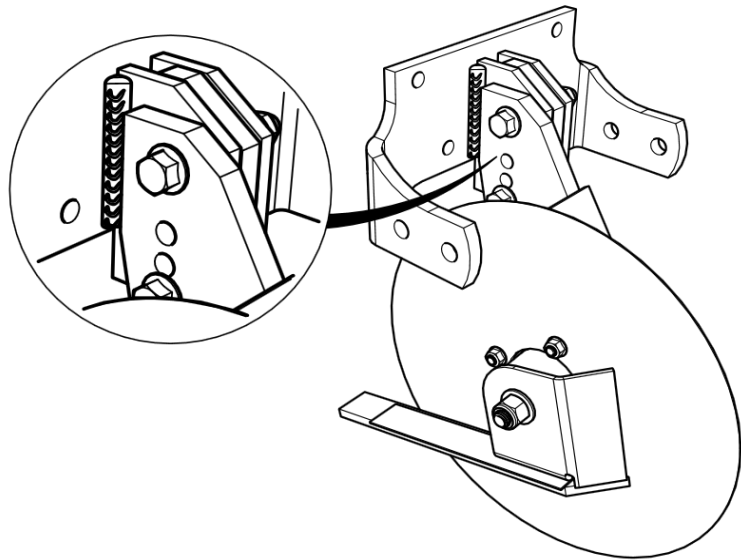
Position B: (RECOMMENDED)

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.

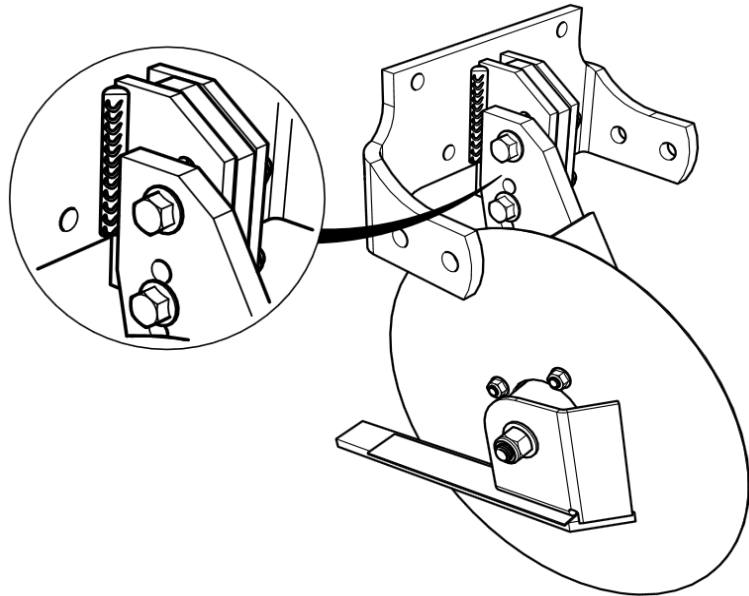
Position C:

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.

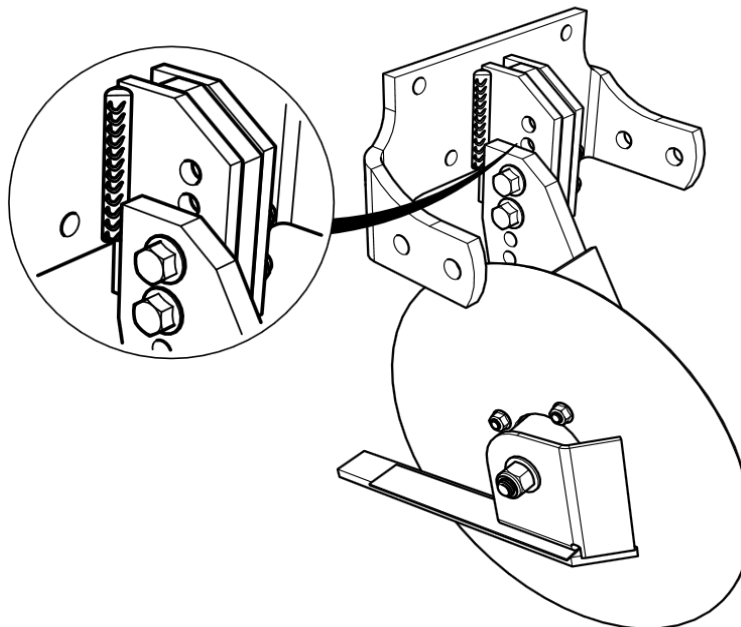
Position A
3/4" above seed depth



Position B
Even with seed depth
(Recommended)



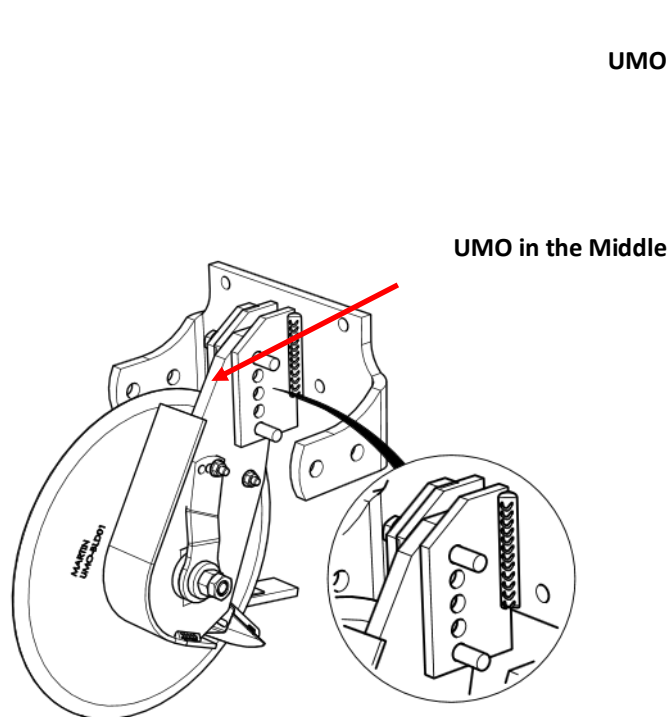
Position C
3/4" below seed depth



STEP 2B: UMO — 100 OFFSET SETTING OPTION

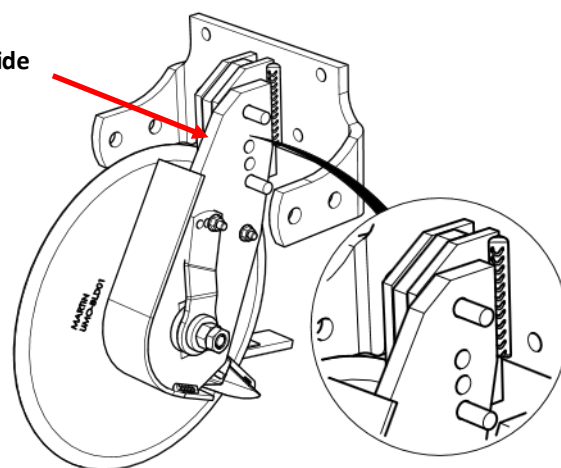
Three different offset settings are shown in the pictures. The UMO can be installed to the right side (Offset 1" from seed furrow), in between (Offset 2" from seed furrow), or to the left side (Offset 3" from seed furrow) of the mount flanges. Place the UMO-12 spacer bar according to the pictures.

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



Position B: Offset 2" from seed furrow

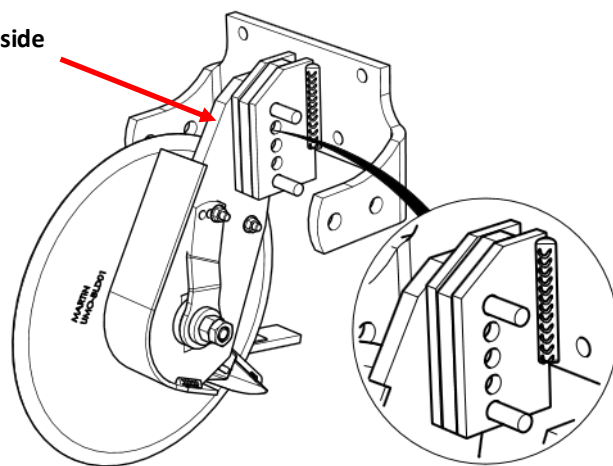
*Recommended for fertilizer application rates of 10-20 GPA.



Position A: Offset 1" from seed furrow

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

UMO in the Right side



Position C: Offset 3" from seed furrow

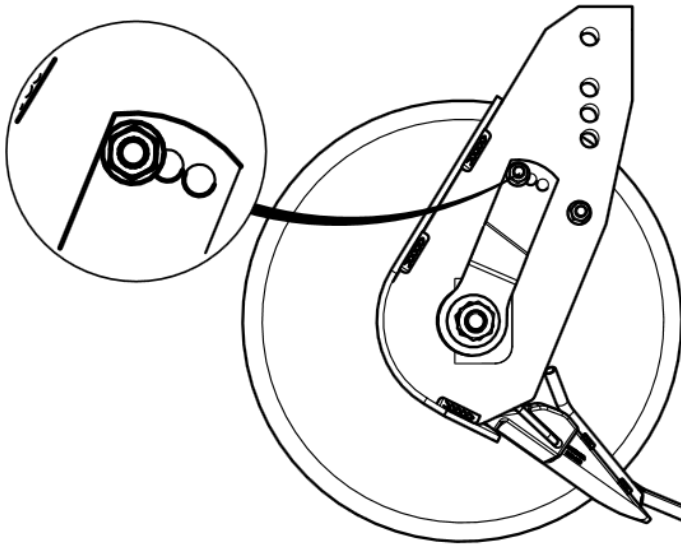
*Recommended for fertilizer application rates of 20-30 GPA.

NOTE:

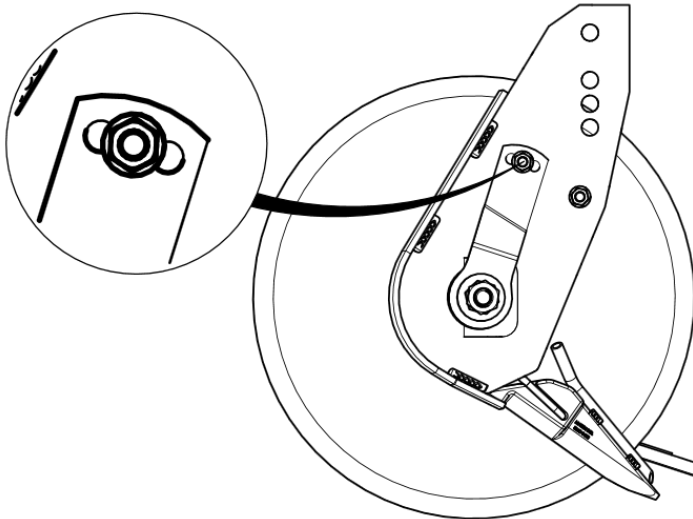
**Recommendations based on general rule of thumb of 1" offset for every ten gallons of fertilizer applied per acre.*

**Consult with your agronomist for specific application rate information unique to your operation,*

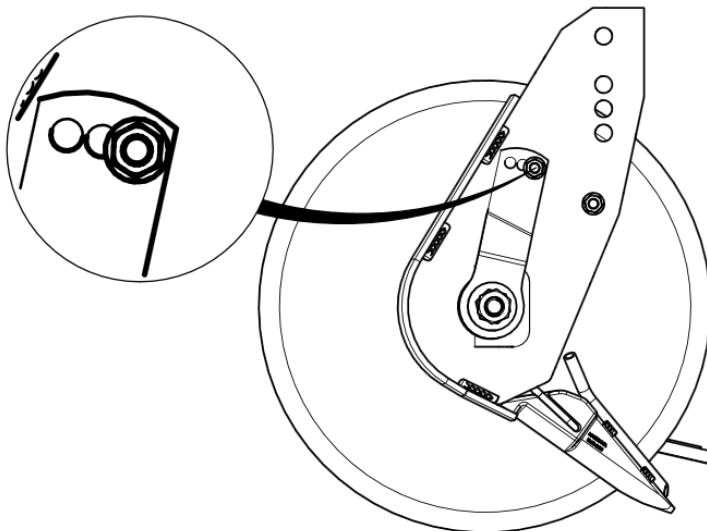
STEP 2C: FURROW CONTROL LEVER GROUND PRESSURE ADJUSTMENT



SETTING #1: This configuration provides maximum ground pressure.



SETTING #2: This configuration provides medium ground pressure.

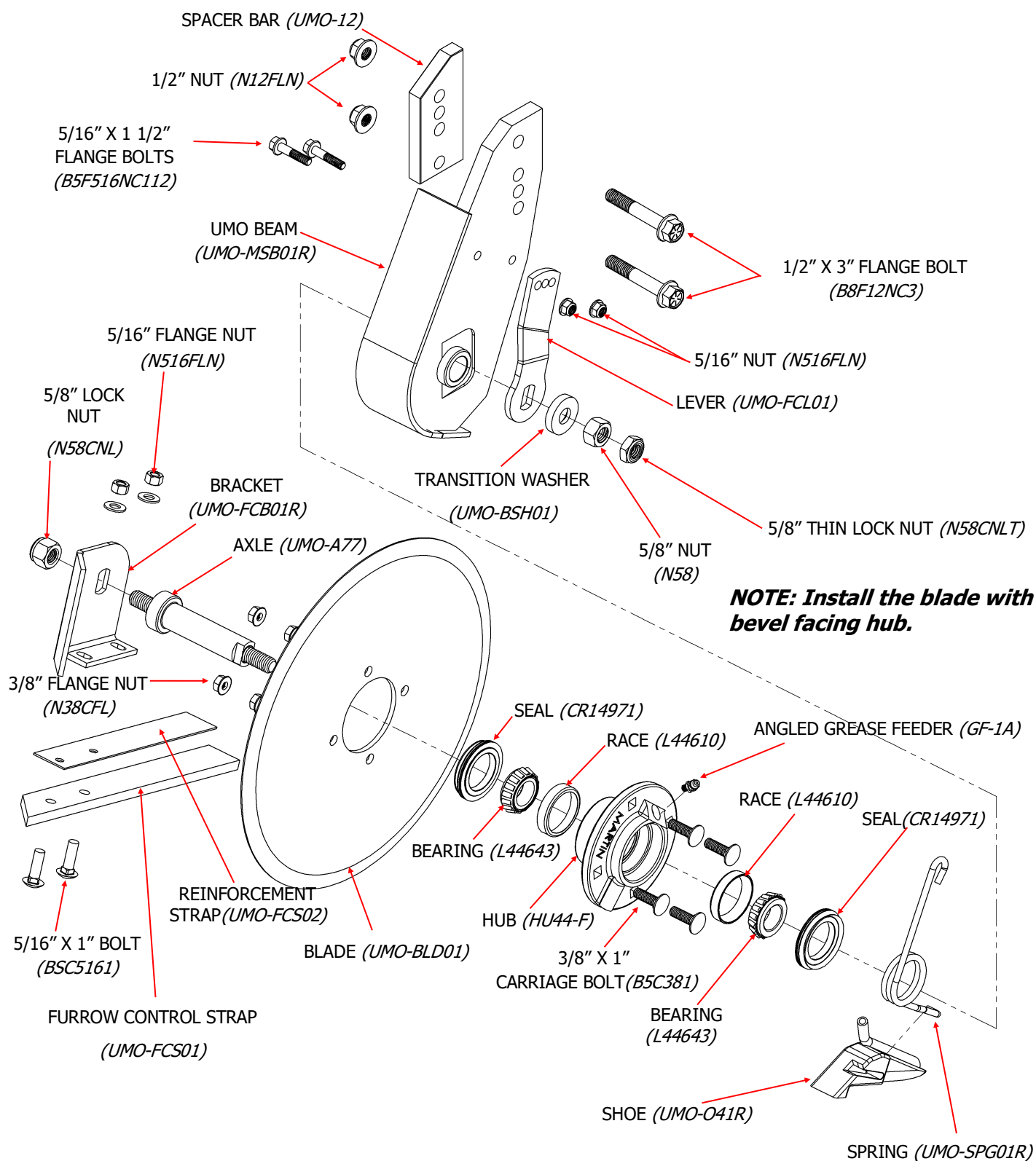


SETTING #3: This configuration provides the least ground pressure.

NOTE: This is the default and recommended position.

PARTS LIST FOR UMO-100

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



NOTE: Install the blade with bevel facing hub.

NOTE: UMO-100R SHOWN

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

MAINTENANCE TIPS

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”.

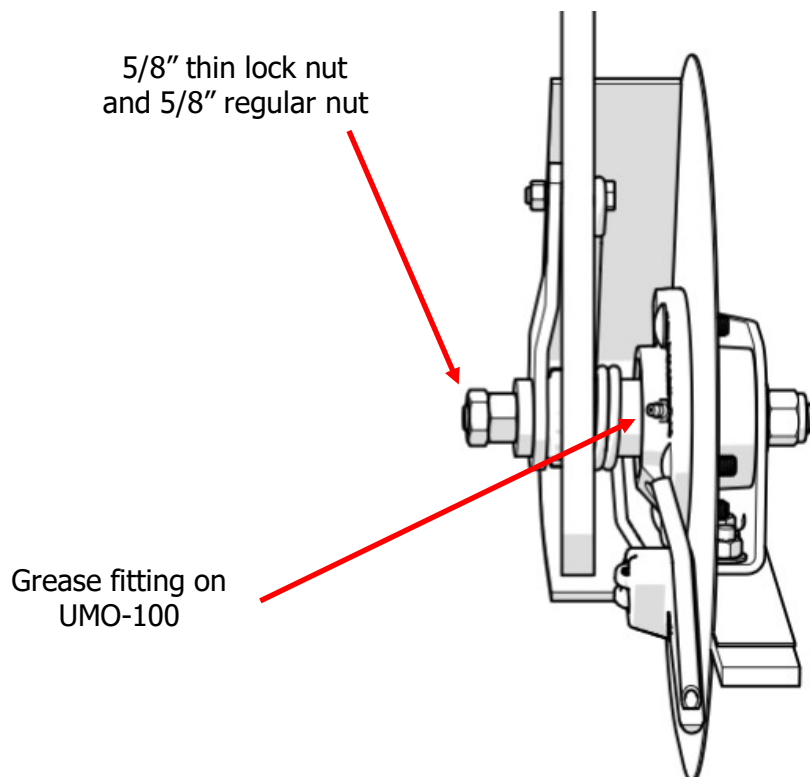
UMO — 100 Hub Bearing Preload Adjustment

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





The most trusted name in no-till
Established 1991

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