BKW UMO1360

1360 ROW CLEANER with UNIT MOUNTED FERTILIZER OPENER (for Kinze and White Planters)

Installation Instructions

SHOWN WITH OPTIONAL SIDE TREADER WHEELS & CAM ADJUST

(STW-04 & CA03-D)

Martin Planter Attachments

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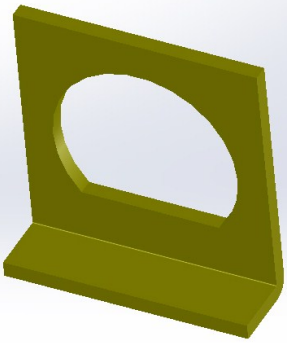
VERSION 06012012

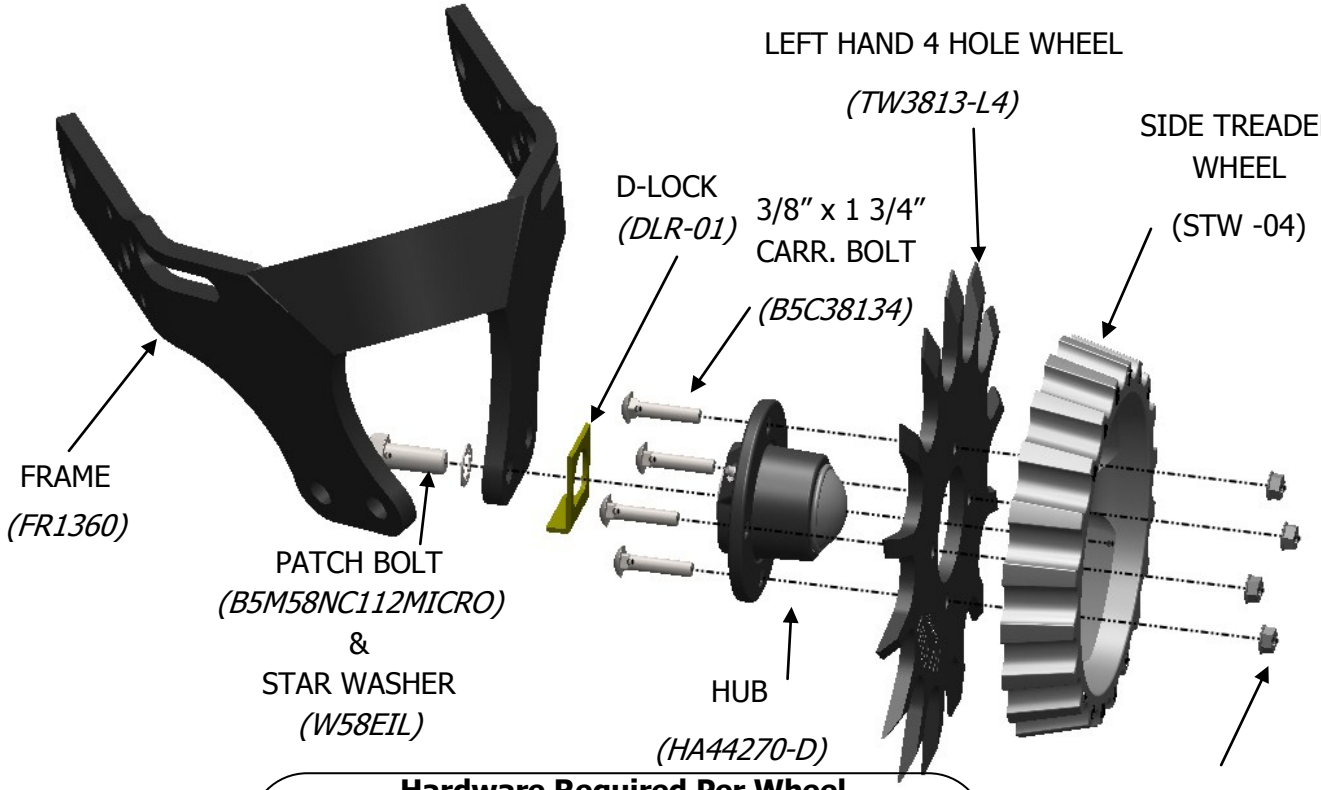
INSTALLING THE WHEEL ASSEMBLY WITH D-LOCK TO THE 1360 FRAME

Either the D-Lock (illustrated right) or the D-Lock deflector (illustrated on following page) must be installed to allow the 5/8" patch bolt to tighten without the hub rotating. The D-Lock is recommended when working in corn stalks, conventional tillage, minimum tillage or strip till.



D-LOCK DLR-01

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 and star washer and torque to 200 ft. lbs. Re-tighten after first day's use.**
3) **Install the toothed wheel (part number to the outside) and side treader wheel on the hub with the four carriage bolts and flange head nuts. Torque to 60 ft. lbs and re-tighten after first day's use.**
4) **The wheel marked TW3813-L4 is for use on the left side of the frame (as viewed from behind the machine). Repeat for opposite side.**



Hardware Required Per Wheel

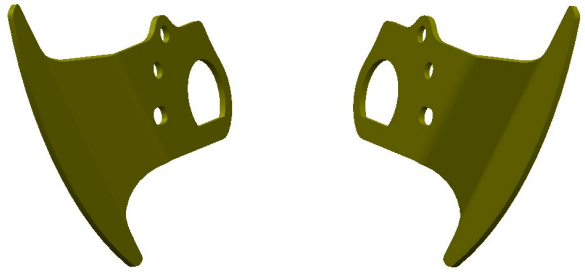
1)	3/8" x 1 3/4" Carriage Bolts	Qty 4
2)	3/8" Nuts	Qty 4
3)	5/8" x 1 1/2" Patch Bolt	Qty 1
4)	5/8" Star Washer	Qty 1

INSTALLING THE WHEEL ASSEMBLY WITH D-LOCK

DEFLECTOR (DLD-02) TO THE 1360 FRAME

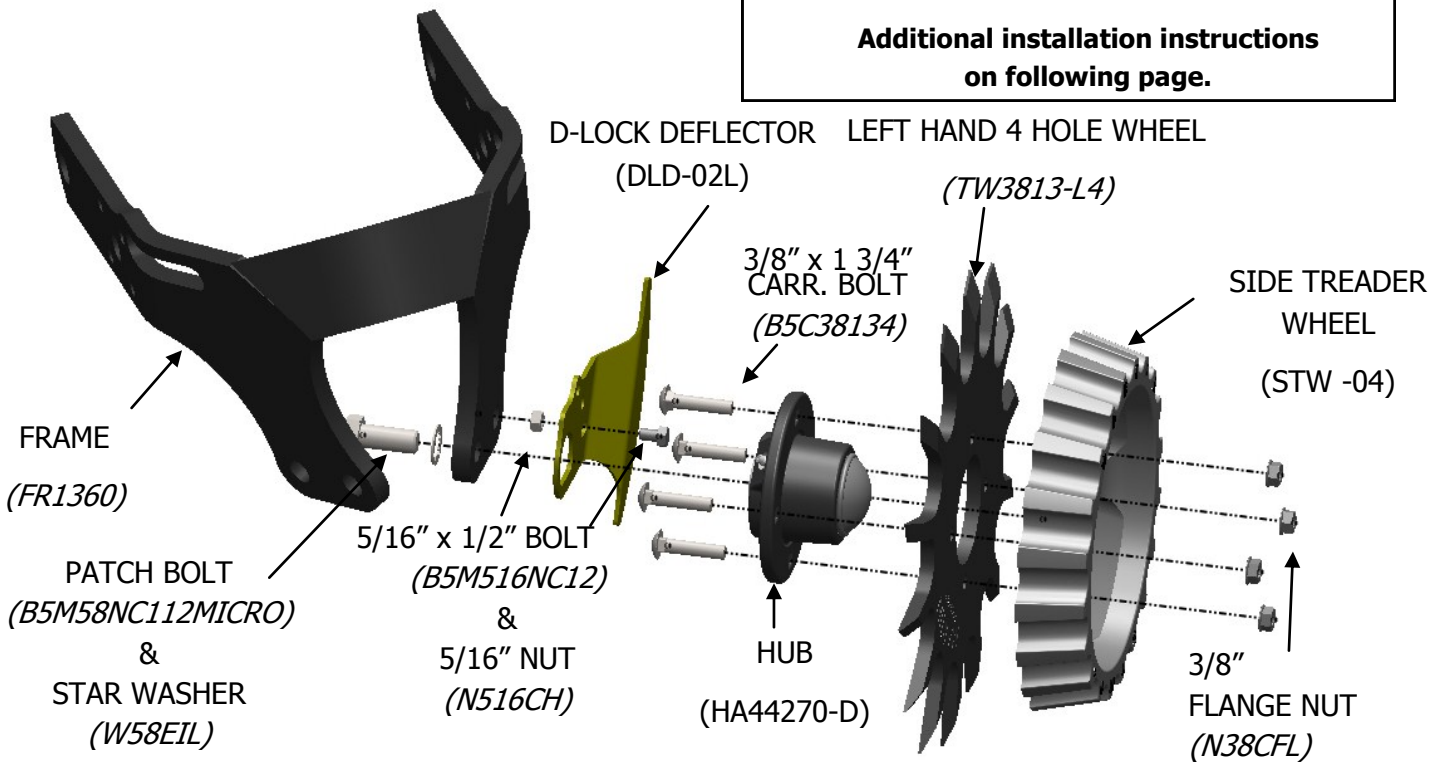
The D-Lock deflector is recommended (instead of the D-Lock) when operating in wetter conditions or damp stringy residue to help reduce wrapping.

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.**
2) **Secure the hub to the frame with the 5/8" bolt and star washer and torque to 200 ft. lbs. Re-tighten after first day's use.**
3) **Install the toothed wheel (part number to the outside) and side treader wheel on the hub with the four carriage bolts and flange head nuts. Torque to 60 ft. lbs. Re-tighten after first day's use.**
4) **The wheel marked TW3813-L4 is for use on the left side of the frame (as viewed from behind the machine). Repeat for opposite side.**



D-Lock Deflector DLD-02 L & R

Additional installation instructions on following page.

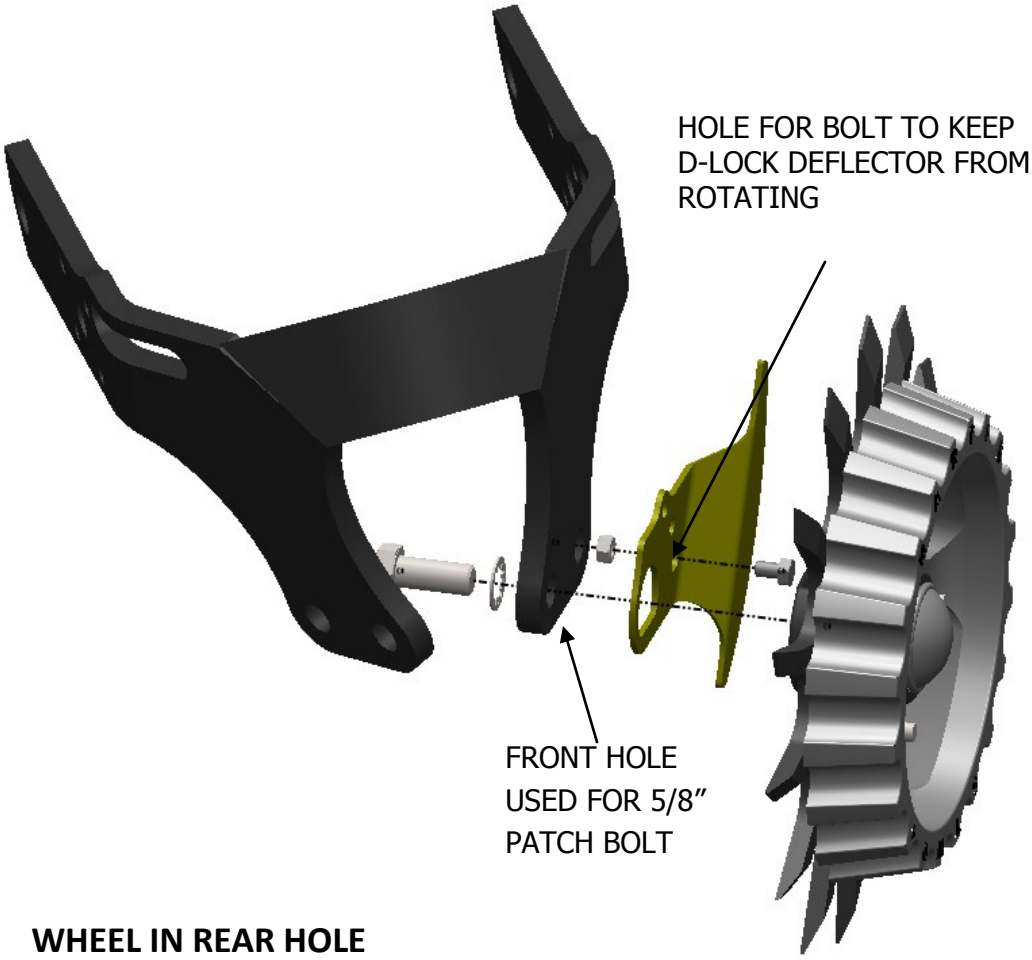


Hardware Required Per Wheel

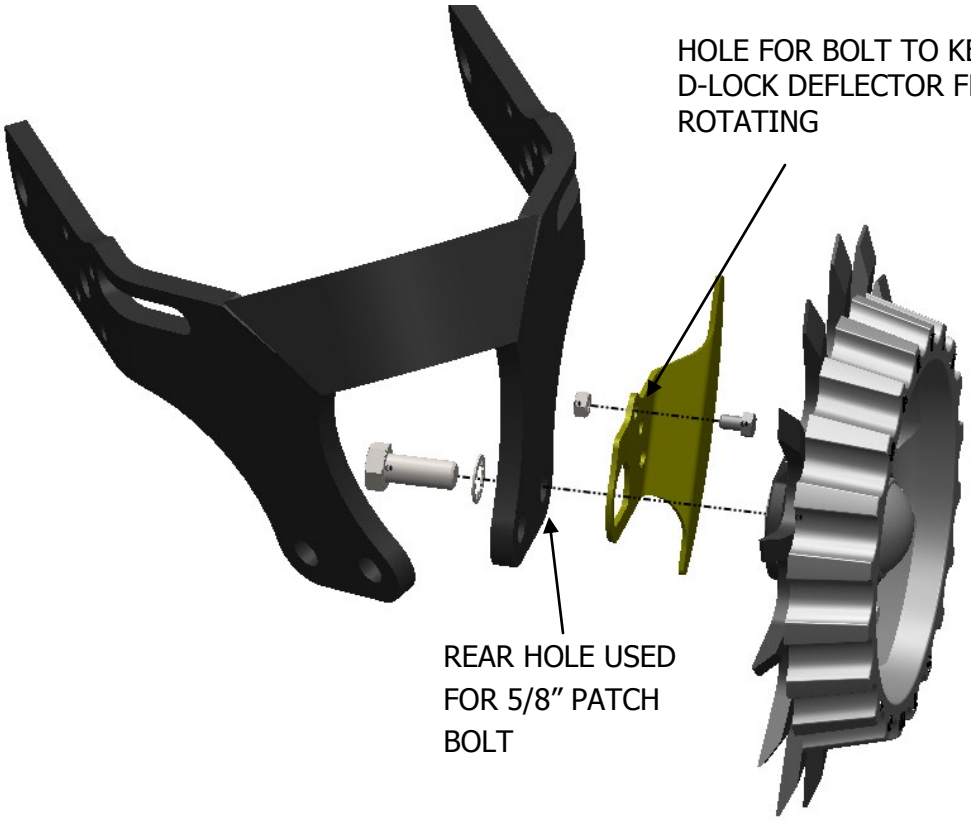
1)	3/8" x 1 3/4" Carriage Bolts	Qty 4	
2)	3/8" Nuts	Qty 4	
3)	5/8" x 1 1/2" Patch Bolt	Qty 1	
4)	5/8" Star Washer	Qty 1	
5)	5/16" x 1/2" Bolt (for DLD-02)	Qty 1	
6)	5/16" Nut (For DLD-02)	Qty 1	

ATTACHING THE WHEEL WITH D-LOCK DEFLECTOR TO THE FR1360 FRAME FOR DIFFERENT SOIL CONDITIONS

WHEEL IN FRONT HOLE



WHEEL IN REAR HOLE



ATTACHING THE WHEEL WITH D-LOCK DEFLECTOR TO THE FR1360 FRAME FOR DIFFERENT SOIL CONDITIONS

BOTH WHEELS IN FRONT HOLE

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

Note: The 5/16” D-Lock deflector bolt fits within the 5/8” patch bolt hole, to prevent rotation of the deflector.

LEFT WHEEL IN FRONT HOLE

RIGHT WHEEL IN REAR HOLE

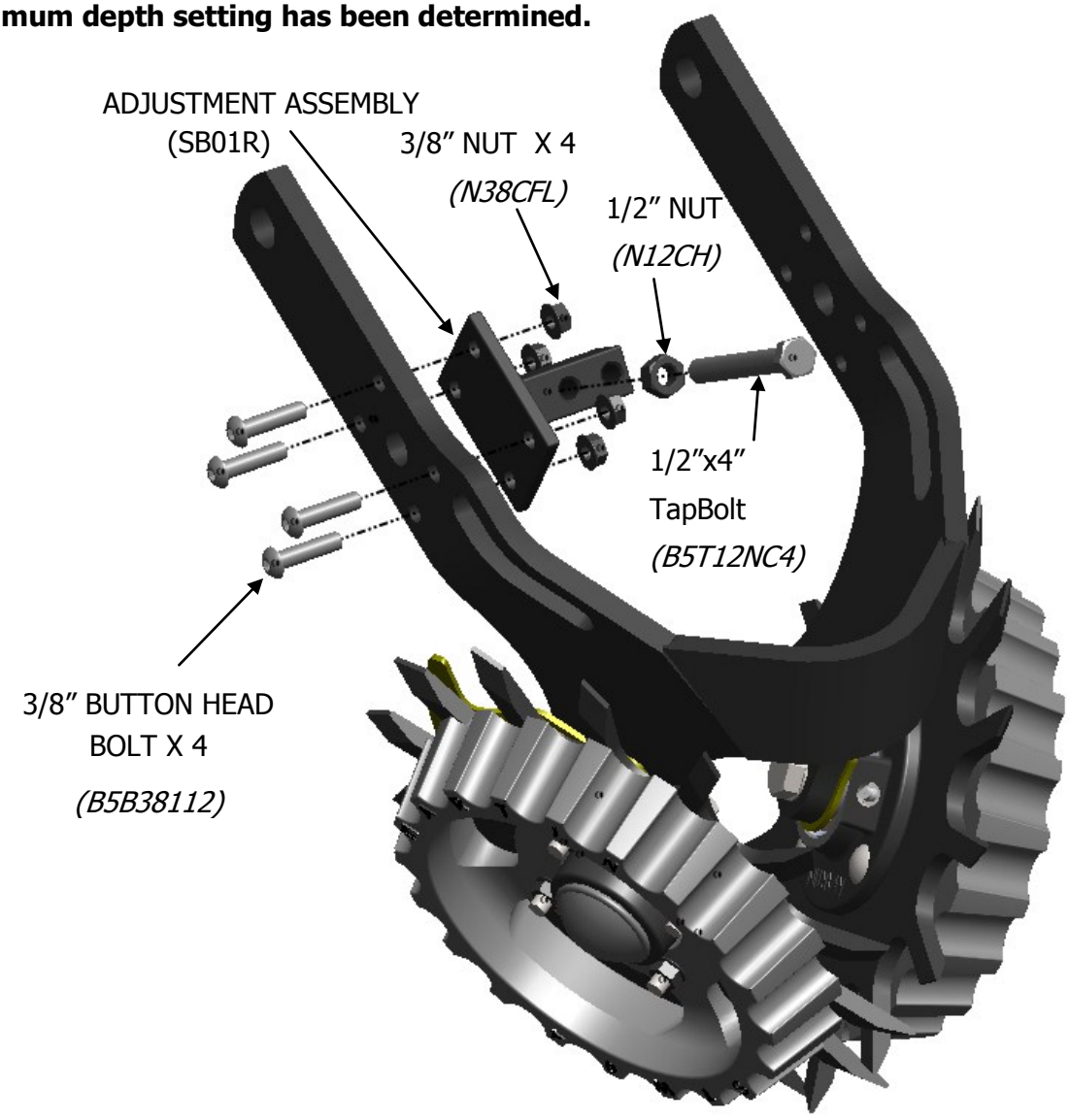
The staggered configuration allows the toothed wheels to turn more easily in loose soil.

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

Note: D-Lock deflector bolt fits up against the frame, when in the rear hole, not within the 5/8” patch bolt hole.

INSTALLING THREADED ADJUSTMENT ASSEMBLY

1. **Place the adjustment assembly against the frame as shown in diagram below.**
2. **Secure the adjustment assembly to the frame using the four button head bolts and nuts provided. Torque to 60 ft. lbs.**
3. **Put the 1/2" nut on the 1/2" x 4" bolt and thread the bolt into the tapped hole of the adjustment assembly. Use the 1/2" nut to lock the 4" adjustment bolt in place once the desired minimum depth setting has been determined.**

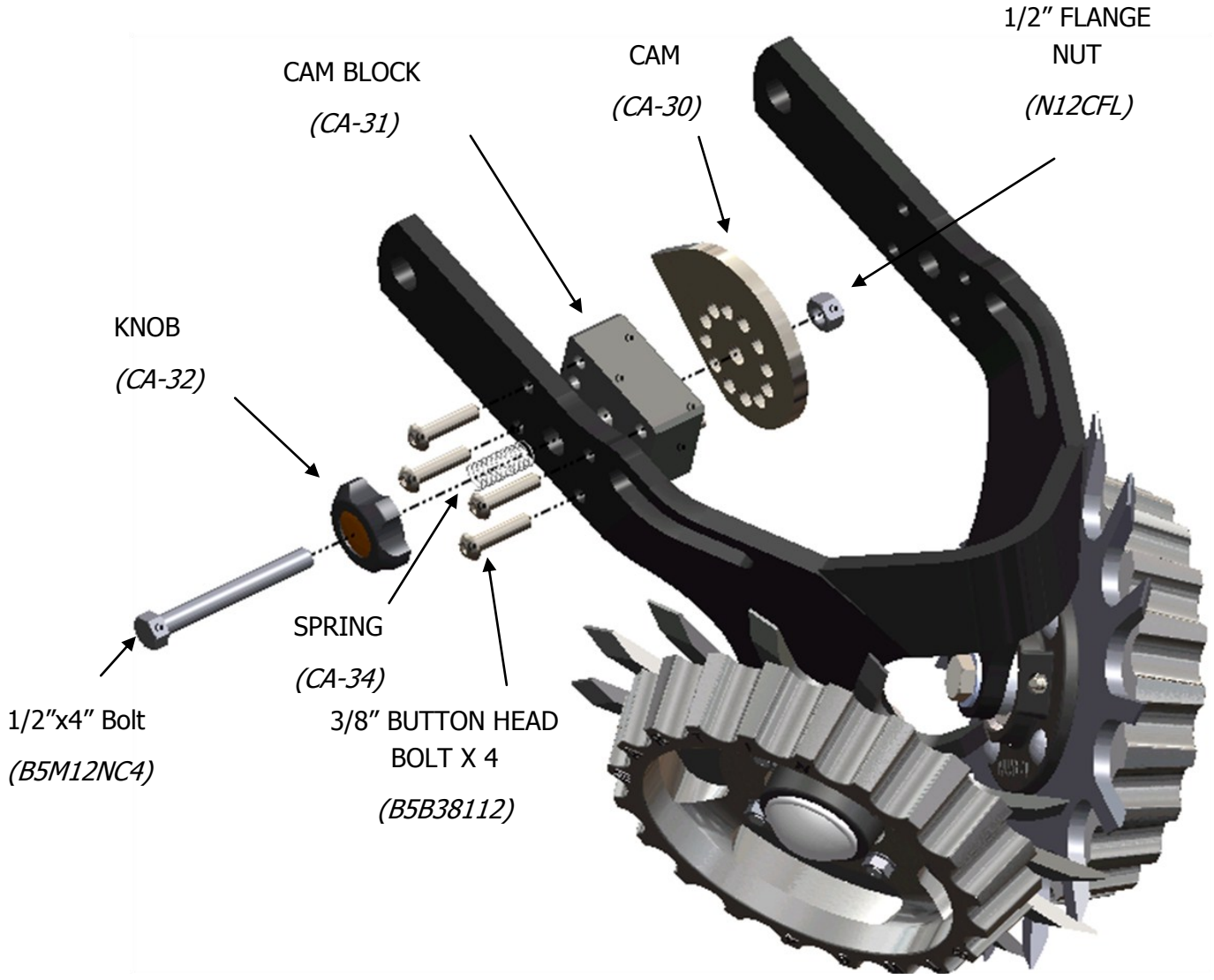


Hardware Required

1)	3/8" x 1 1/2" Bolts	Qty 4
2)	3/8" Nuts	Qty 4
3)	1/2" x 4" Bolt	Qty 1

INSTALLING THE OPTIONAL CAM ADJUST ASSEMBLY

1) **Mount the cam block to the frame using the four 3/8" button head bolts, with notch to bottom and rear, torque to 60 ft. lbs.**
2) **Slide the 1/2" x 4" bolt through the knob, spring, and support block and thread it into the cam.**
3) **Tighten the bolt until the cam is directly adjacent the support block but still loose enough to be disengaged from the pin by pushing on the knob.**
4) **Install the 1/2" nut on the end of the bolt and tighten securely against the cam.**



INSTALLING UMO-100 TO THE UMO MOUNT

1) **Place the UMO-100 between the two flanges of the mount.**

2) **Insert the two 1/2" x 2 1/2" flange bolts.**

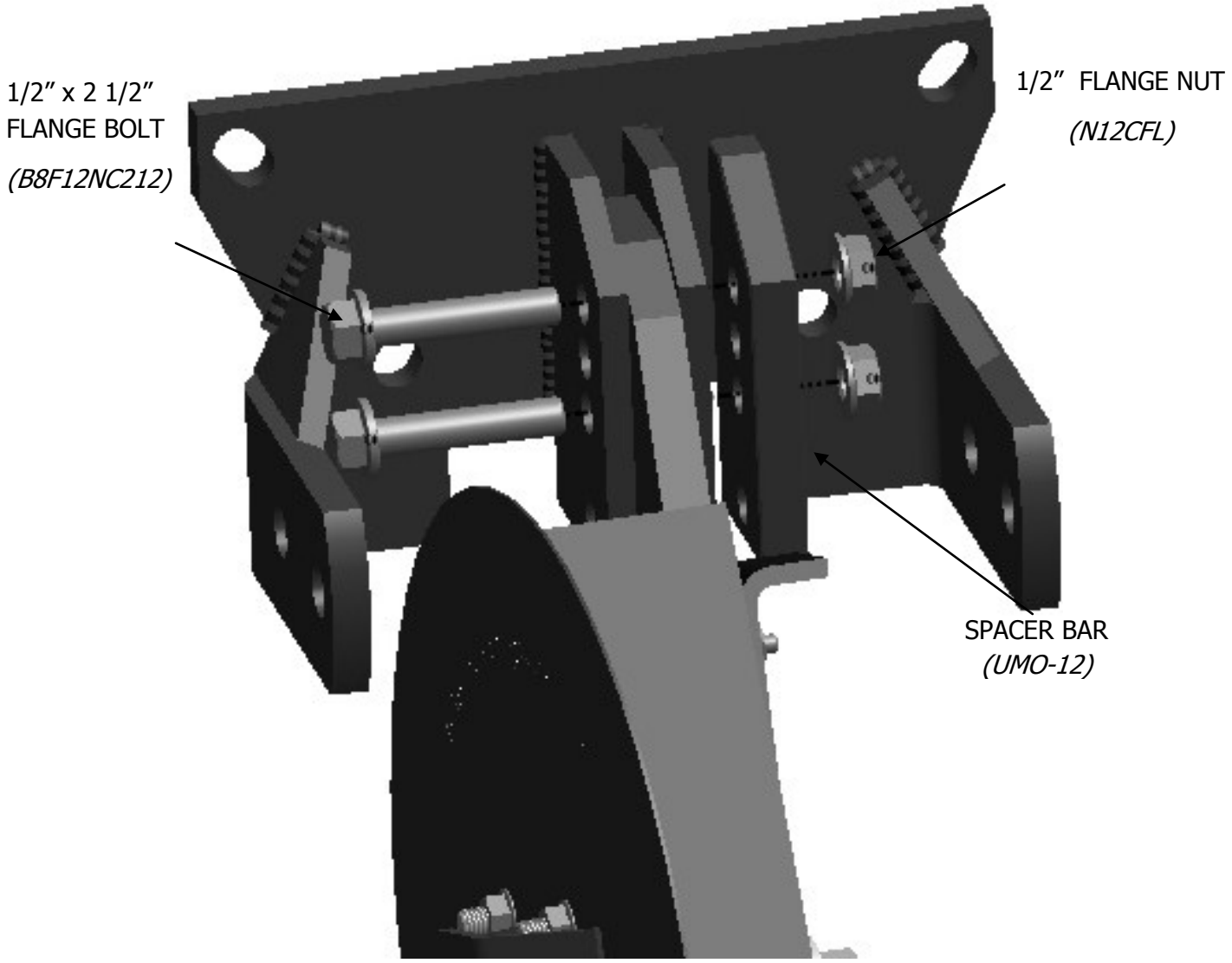
3) Place the UMO-12 spacer bar onto the bolts and against the flange. Add the two 1/2" flange nuts and tighten.

4) Torque to 80 ft. lbs. Check torque after a day's use.

5) The below mounting will be 3/4" above seed depth and 2" from seed furrow.

6) Bolt head must be opposite of UMO Stop Arm.

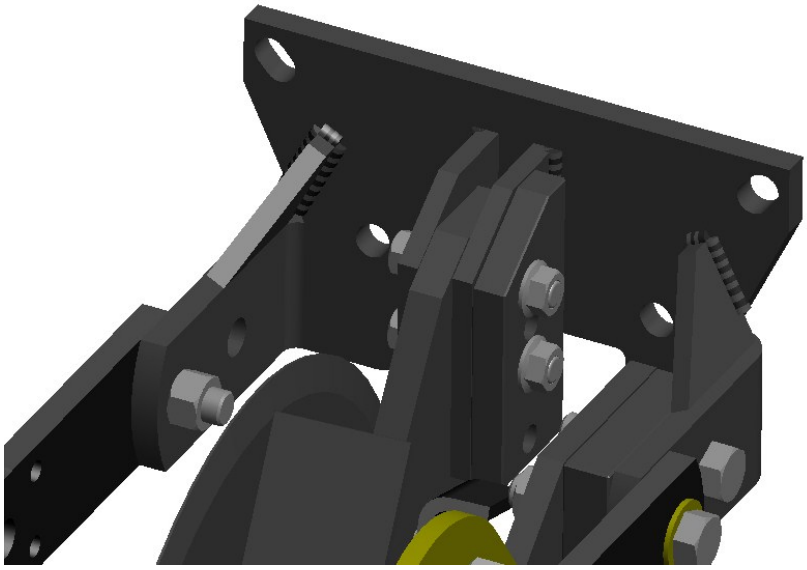
See pages 8 and 9 for additional depth and fertilizer placement settings.



Hardware Required

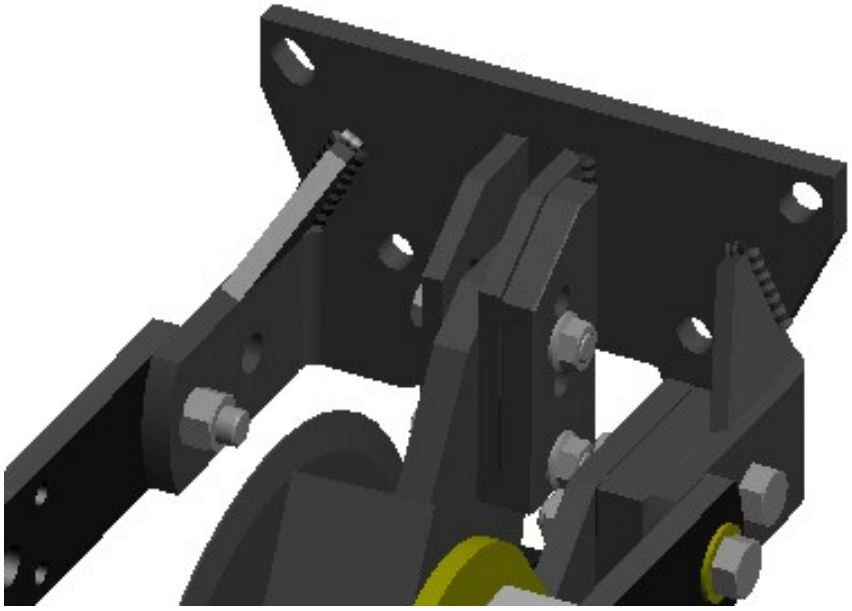
1)	1/2" x 2 1/2" Flange Bolts	Qty 2
2)	1/2" Flange Nuts	Qty 2

UMO-100 DEPTH SETTINGS



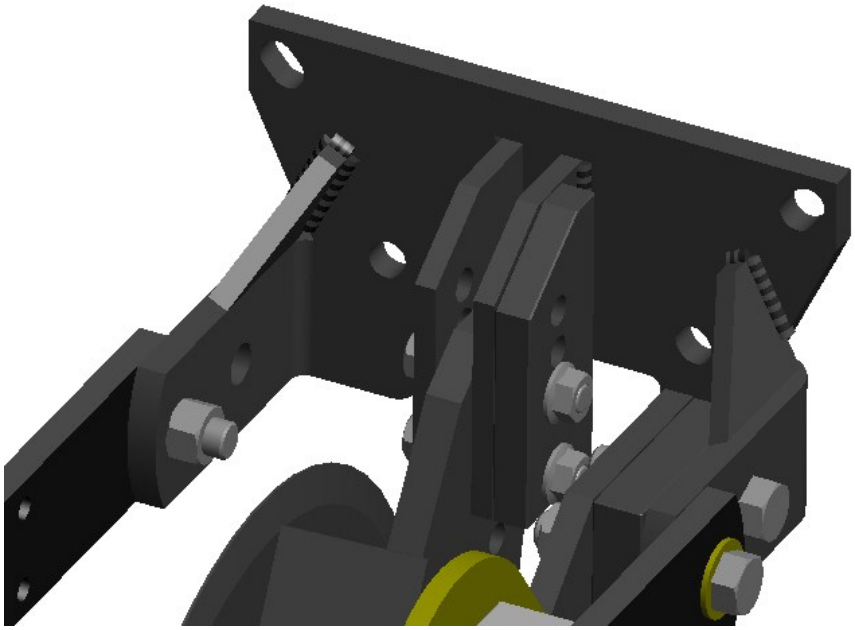
Shown at 3/4" above seed depth.

Bolt heads must be opposite of stop arm.



Shown at seed depth.

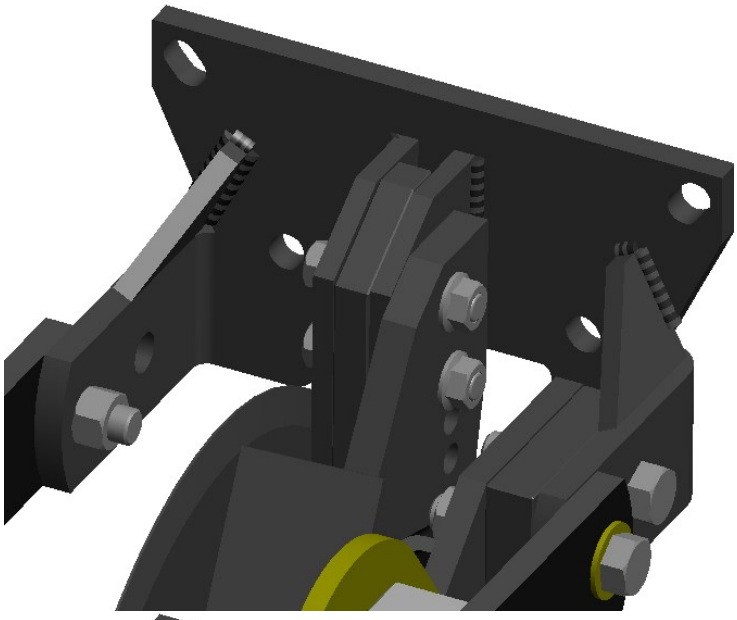
Bolt heads must be opposite of stop arm.



Shown at 3/4" below seed depth.

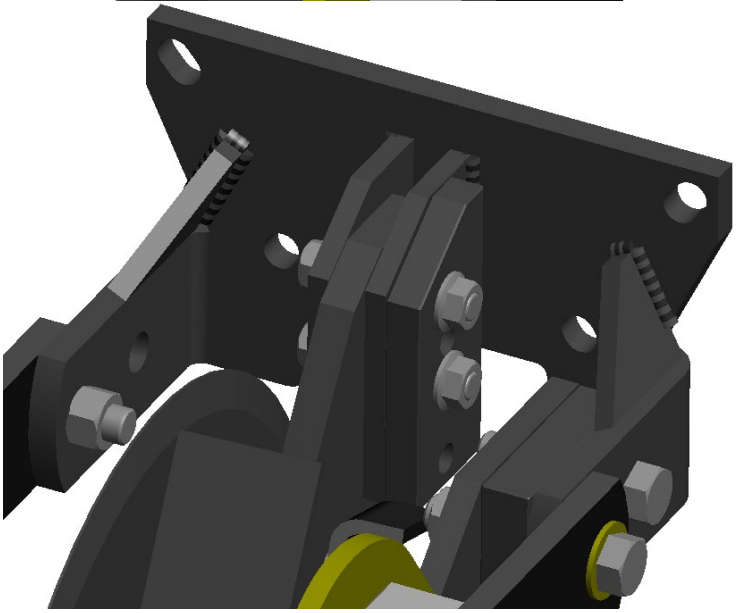
Bolt heads must be opposite of stop arm.

OFFSET PLACEMENT SETTINGS FROM SEED FURROW



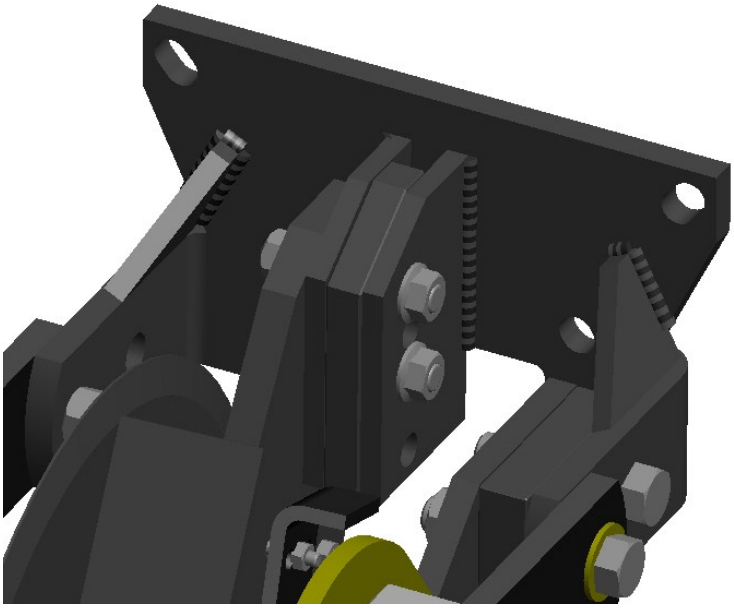
Offset 1” from seed furrow.

Bolt heads must be opposite of stop arm.



Offset 2” from seed furrow.

Bolt heads must be opposite of atop arm.

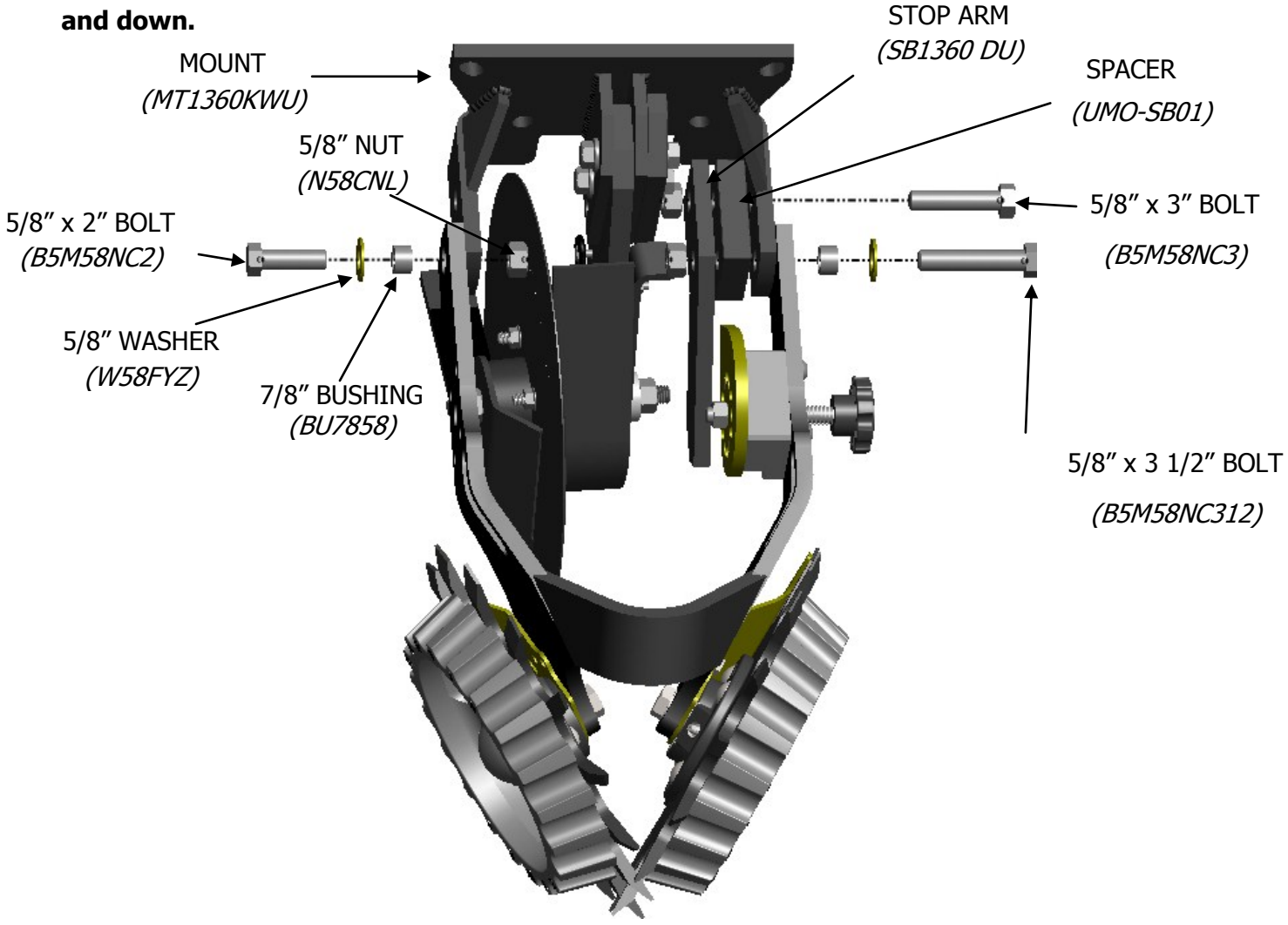


Offset 3” from seed furrow.

Bolt heads must be opposite of stop arm.

ATTACHING THE 1360 FRAME ASSEMBLY TO THE MT1360KWU MOUNT ASSEMBLY

1) **Align the UMO Spacer Block and UMO Stop Arm up with the holes in the MT1360KWU Mount. Insert the 5/8" x 3" bolt through the hole as shown below. Add nut and secure loosely.**
2) **Place the washer and bushing on the 5/8" x 2" bolt. Repeat process for the 5/8" x 3 1/2" bolt.**
3) **Align the holes in the mount and the frame assembly. Insert the 5/8" x 3 1/2" and the 5/8" x 2" bolt. Tighten as shown below.**
4) **Torque the three 5/8" nuts to 150ft. lbs.**
5) **Check to be sure the frame is not binding on the mounting bracket, and is free to float up and down.**



Hardware Required

1)	5/8" x 2" Bolt	Qty 1
2)	5/8" x 3" Bolt	Qty1
3)	5/8" x 3 1/2" Bolt	Qty1
4)	5/8" Washer	Qty 2
5)	7/8" Bushing	Qty 2
6)	5/8" Nuts	Qty 3

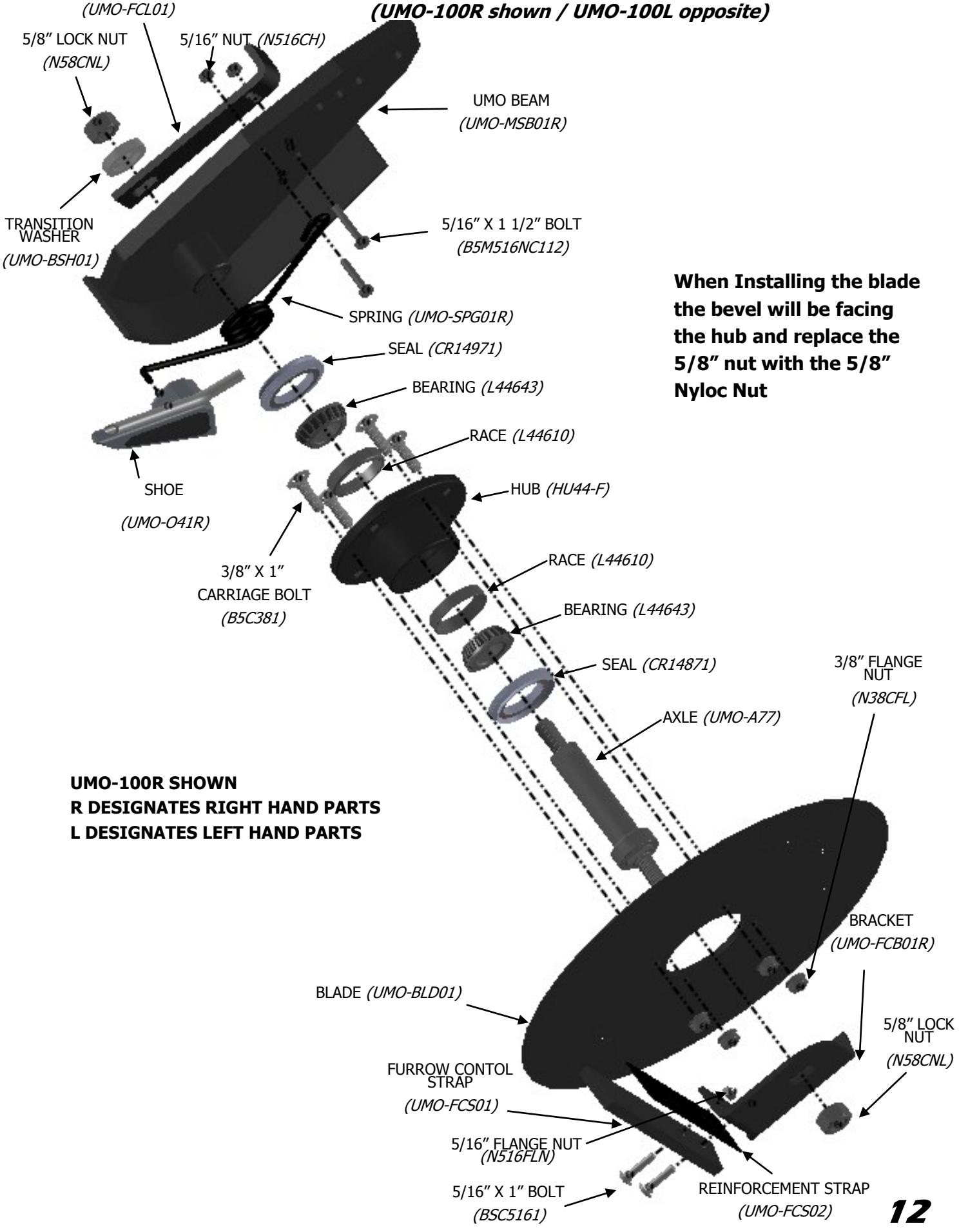
FURROW CONTROL LEVER ADJUSTMENTS IF NEEDED

3/4” Above seed depth

At Seed depth

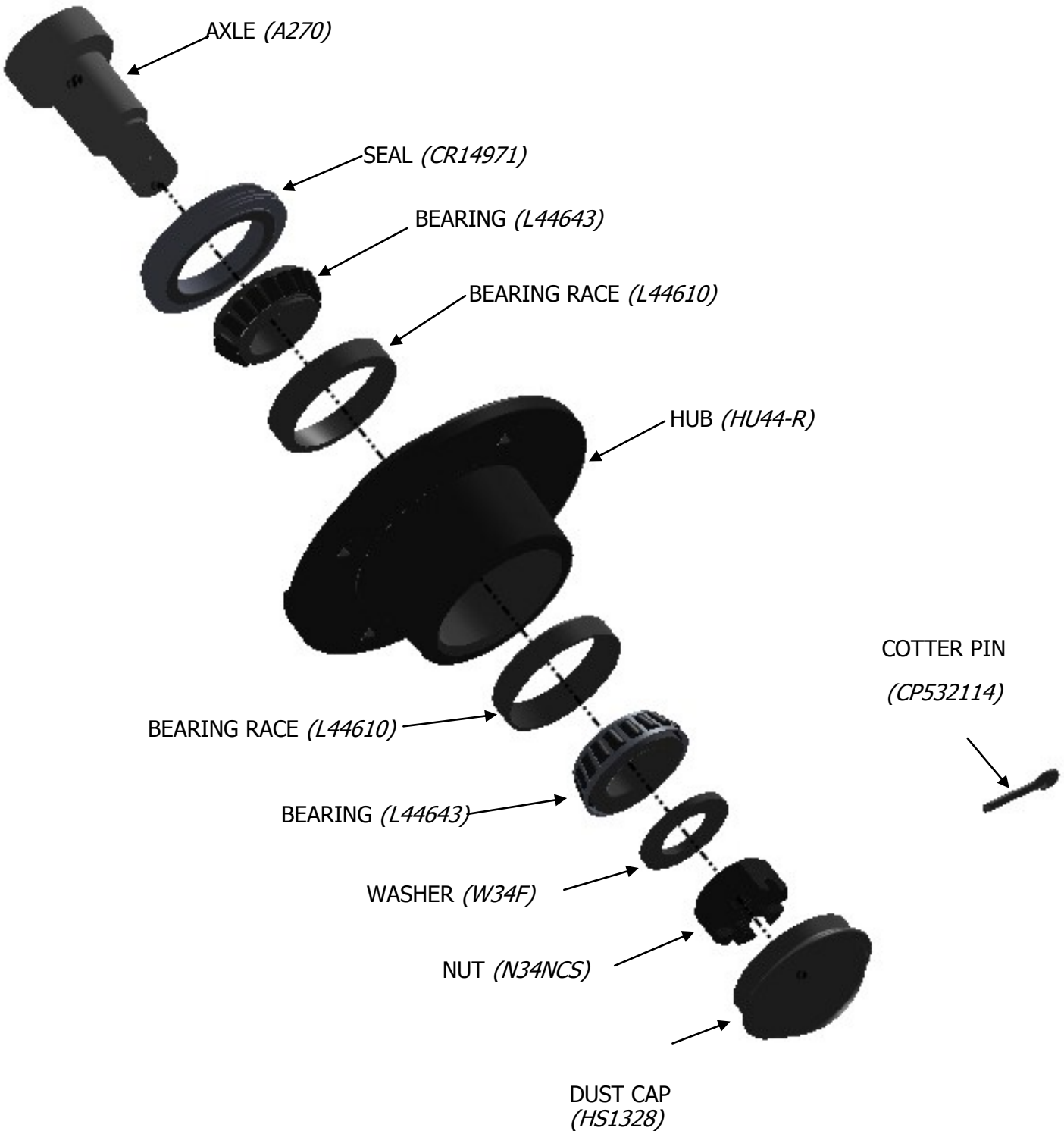
3/4” Below seed depth

Parts list for UMO-100
(UMO-100R shown / UMO-100L opposite)



When Installing the blade the bevel will be facing the hub and replace the 5/8" nut with the 5/8" Nyloc Nut

UMO-100R SHOWN
R DESIGNATES RIGHT HAND PARTS
L DESIGNATES LEFT HAND PARTS


AXLE *(A270)*
SEAL *(CR14971)*
BEARING *(L44643)*
BEARING RACE *(L44610)*
HUB *(HU44-R)*
BEARING RACE *(L44610)*
BEARING *(L44643)*
WASHER *(W34F)*
NUT *(N34NCS)*
DUST CAP
(HS1328)
COTTER PIN
(CP532114)