

Row Unit Conversion Instructions

for:

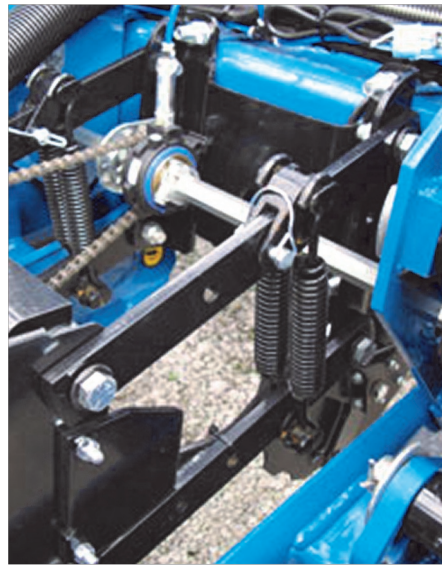
planter models:Kinze / JD7000 / 7100

to convert from **Existing Springs:**.....Kinze Pneumatic Springs,
Kinze Side Springs,
JD Light & HD Side Springs,
HD Spring Attachment

to **Resulting Forces Controlled:**.....Kinze Pneumatics = Down & Lift
All others = Lift Only

with **Conversion Kit:**.....726540

Existing Springs



This conversion process applies to planters with **Regular** parallel arms with **Chain** driven meters. The examples shown below are diagrams for a planter with regular parallel arms; some components shown here may not apply to your particular planter. Special notes will be made throughout the following instructions to encompass individual model needs. Images illustrating a completed row unit conversion are located at the end of these instructions.

Conversion Kit Components

QTY	Part Number	Part Name	Description
1	726101	Spring	Air (Lift)
1	726538	Mount	Lift Airspring Head
1	726553	Mount	Lift Airspring Base
1	726571	Pivot	Lift Airspring Base

Quantities are given per row

Hardware Pack Components

QTY	Part Number	Part Name	Description
2	13005	Bolt	1/4 X 1 GRD 5 ZN
2	13108	Bolt	3/8 X 1.375 GRD 5 ZN
1	13209	Bolt	1/2 X 1.5 GRD 5 ZN
1	13210	Bolt	1/2 X 1.75 GRD5 ZN
1	15064	Bolt	5/16 X 2.75 GRD8 ZN
1	15108	Bolt	3/8 X 1.375 GRD8 ZN
1	15114	Bolt	3/8 X 2.75 GRD8 ZNY
4	33078	Washer	1/4" SAE Flat ZN
1	33626	Lock Washer	1/2" Med. Split Lock ZN
2	33858	Washer	5/16 USS Flat Hi strength ZNY
1	33859	Washer	3/8 USS Flat Hi strength ZNY
1	36214	Hex Jam Nut	5/8" Nut ZN
2	37260	Hex Nut	1/4" Top Lock Nut ZN
1	37262	Hex Nut	5/16" Top Lock Nut ZN
4	37264	Hex Nut	3/8" Top Lock Nut ZN
1	37268	Hex Nut	1/2" Top Lock Nut
1	726112	Elbow	1/8"NPT X 1/4"PTC
1	726115	Tee	1/4"PTC
2	726574	Bushing	1/4"ID X 1/2"OD X 0.23"
1	726584	Bushing	3/8"ID X 5/8"OD X 3/4"
2	726586	Bushing	3/8"ID X 5/8"OD X 9/16"
1	726587	Spade Bolt	1/2" X 1.5X GRD5 ZN
1	879112	Bolt	5/16" X 0.88" GRD5 ZNY (w/ Nylon)
1	726611	Link	Stabilizer (L-Shaped)

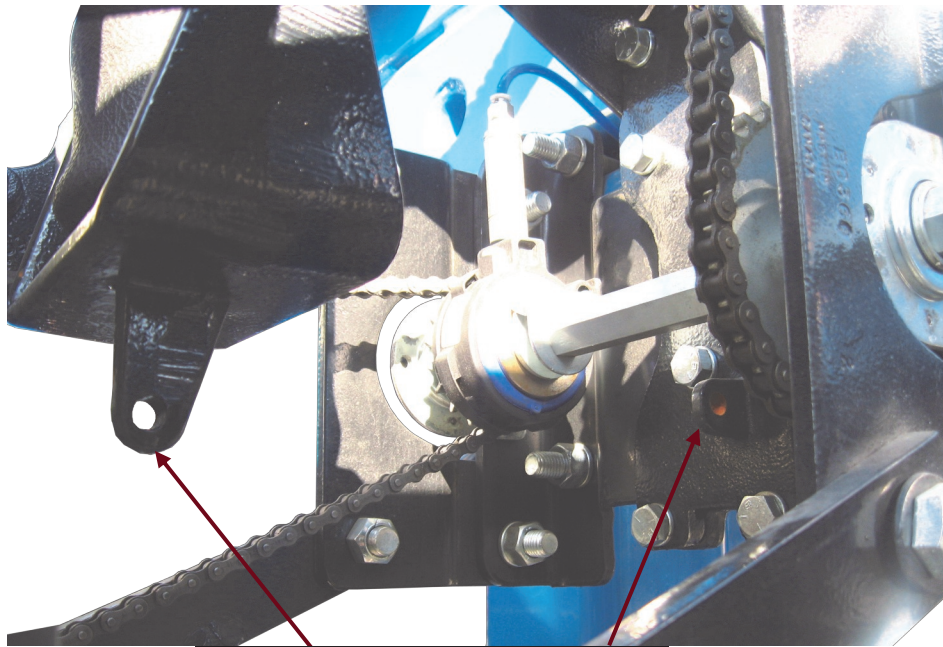
Quantities are given per row

Recommended tools (not provided):

Open end wrenches: 7/16" 1/2", 9/16", 3/4", 15/16", 1-1/8"
- or suitable crescent wrench (s)

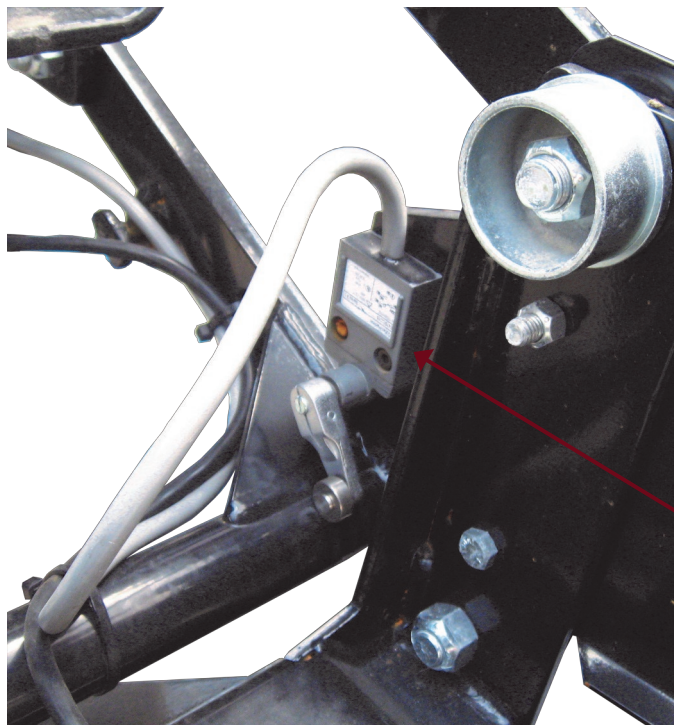
Sockets (Deep well recommended): 7/16", 9/16", 1/2", 3/4",

1. Begin installation by removing tension from the existing springs. Next, remove the hopper and meter from the row unit and set aside.



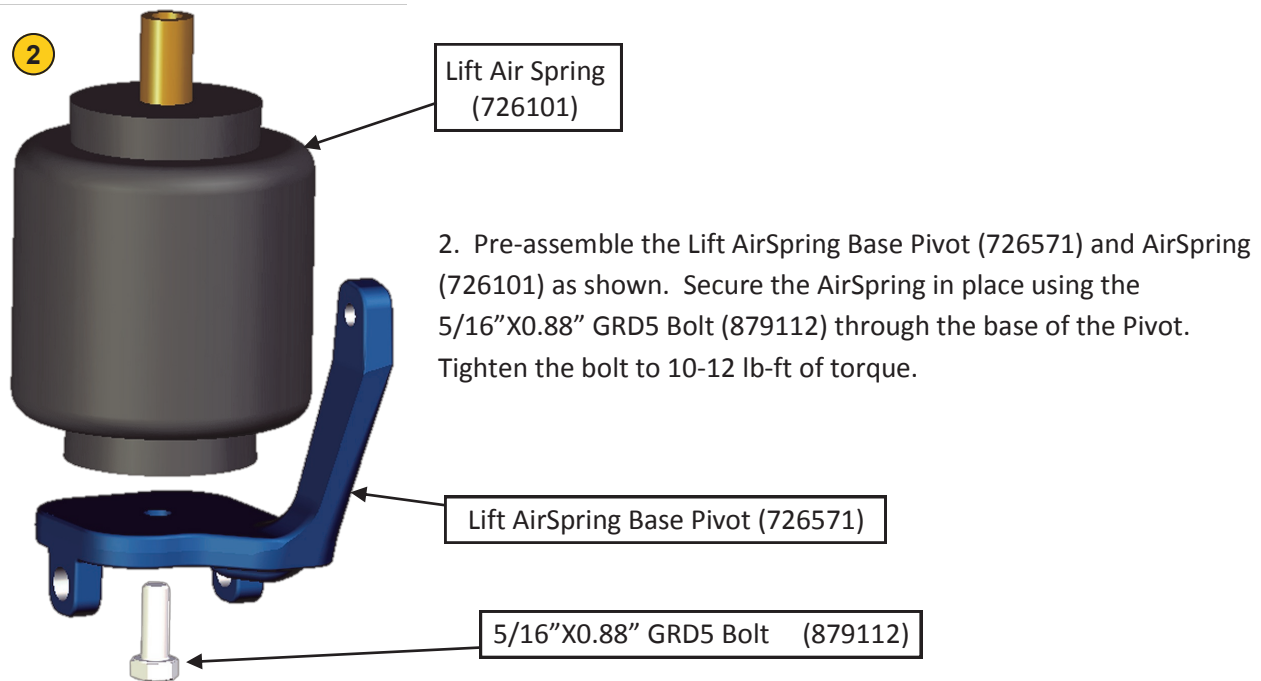
Mounting points for Positioning Link

For planters with OEM pneumatic down springs, remove the positioning link (if present) from the row unit mounting plate to the bottom of the down pneumatic spring bracket. This may not be present on all row units, those with set-back extensions (shown) commonly do not have this link.

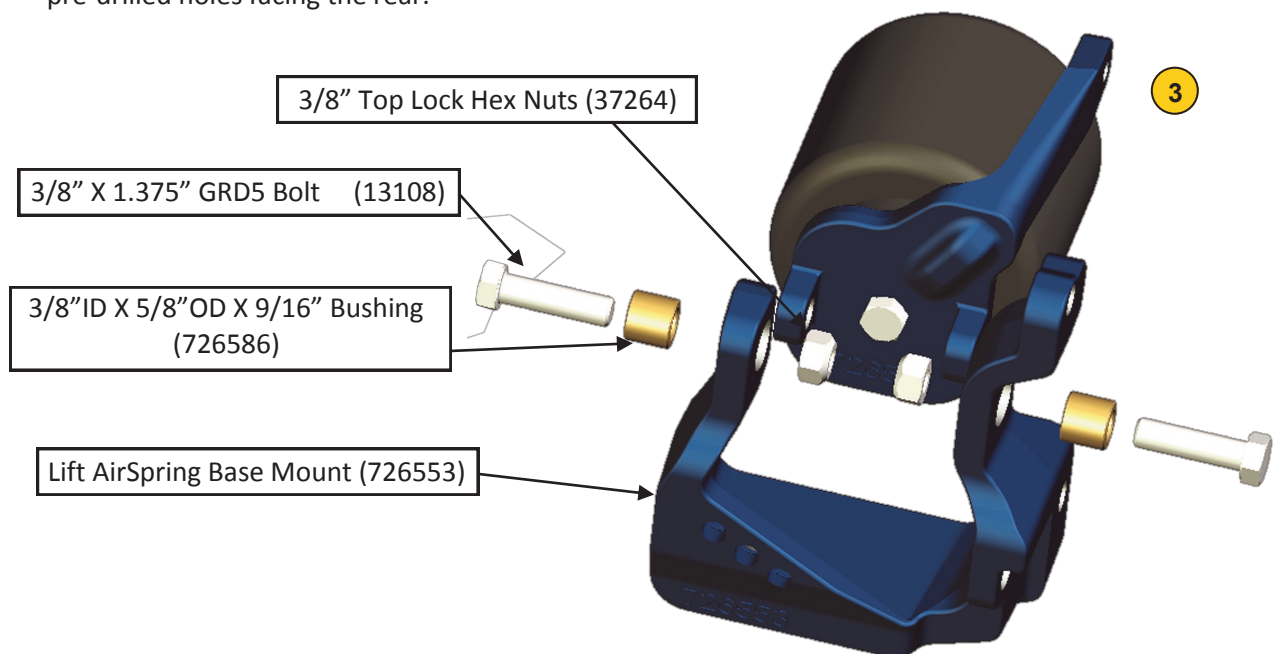


For planters with hydraulic drive motors, the OEM height sensor will need to be removed. Locate and remove the existing height sensor installed on a row unit. The Lift Air Spring will occupy this location upon installation. The sensor will need to be replaced with a Kinze Hydraulic Drive Lift Switch, part number 726620

Existing Height Sensor



3. Next, assemble the AirSpring and Pivot from Step 1 to the Lift AirSpring Base Mount (726553). Secure in place as shown using two 3/8" X 1.375" GRD5 Bolts (13108), through two 3/8"ID X 5/8" OD X 9/16" Bushings (726586), with two 3/8" Top Lock Hex Nuts (37264). Make sure to align the components as shown, with the Pivot arm facing forward and the flange with pre-drilled holes facing the rear.



4. When standing behind the row unit, place the completed assembly in the lower right hand corner of the top plate and upright of the row unit shank. Begin by removing the existing bolt from the upright/hopper panel. The assembly will be fixed in place vertically through the top plate of the shank and horizontally through the side of the shank upright.

Top Plate:

3/8"X1.375" GRD8 Bolt (15108)

3/8" USS HiStrength Flat Washer (33859)

3/8" Top Lock Hex Nut (37264)

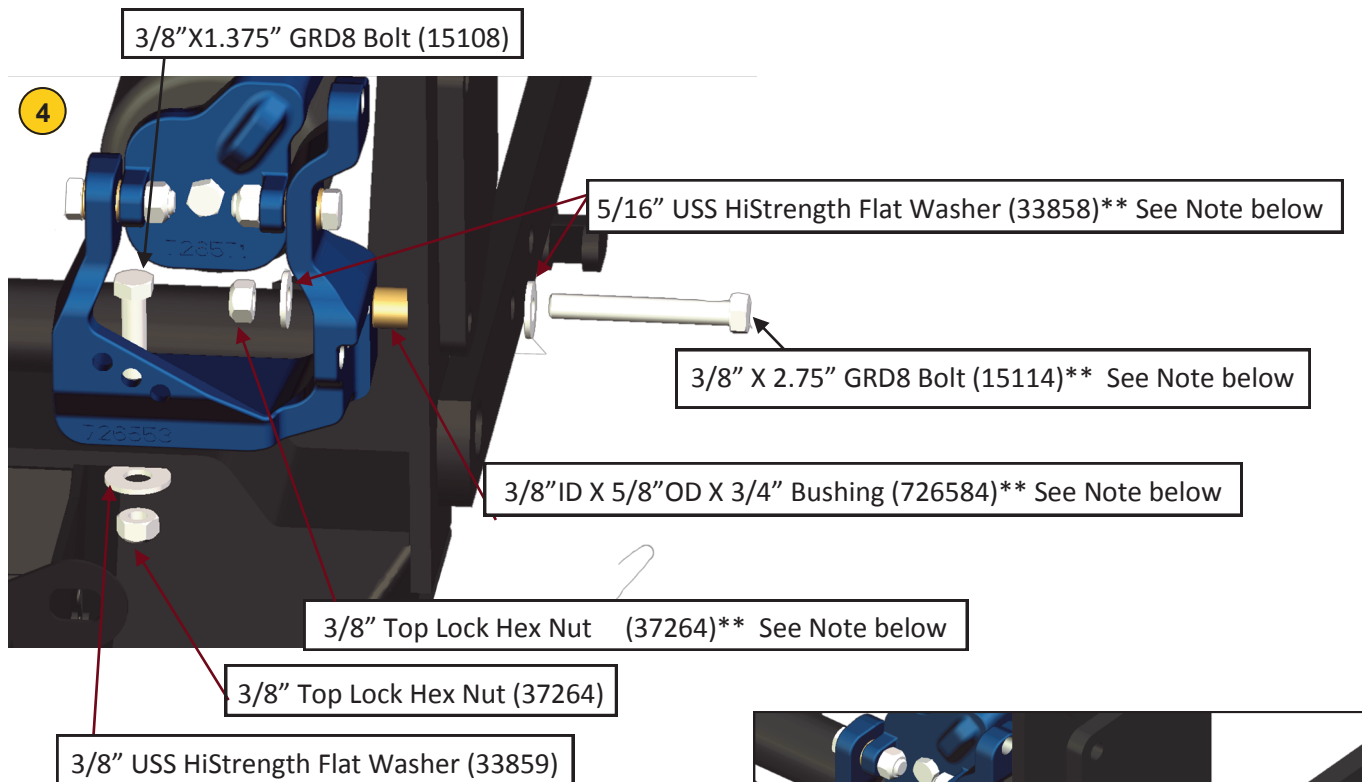
Upright:

3/8" X 2.75" GRD8 Bolt (15114) **OR** 5/16" X 2.75 GRD8 ZN Bolt (15064) ****See Note**

5/16" USS HiStrength Flat Washer (33858) Use only on Rum Rows ****See Note**

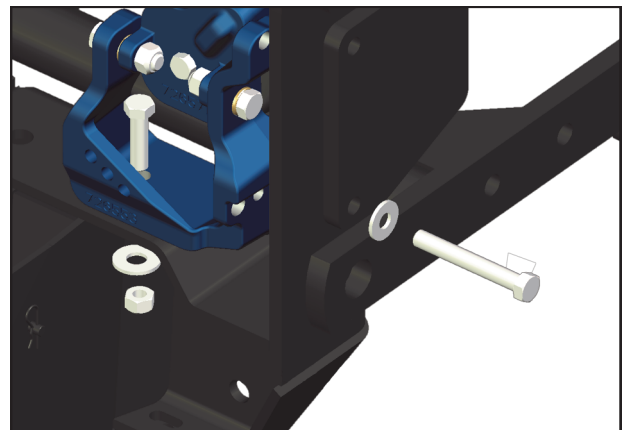
3/8"ID X 5/8"OD X 3/4" Bushing (726584) - Do Not Use on RUM rows. **** See Note**

3/8" Top Lock Hex Nut (37264) **OR** 5/16" Top Lock Nut (37262) **** See Note**



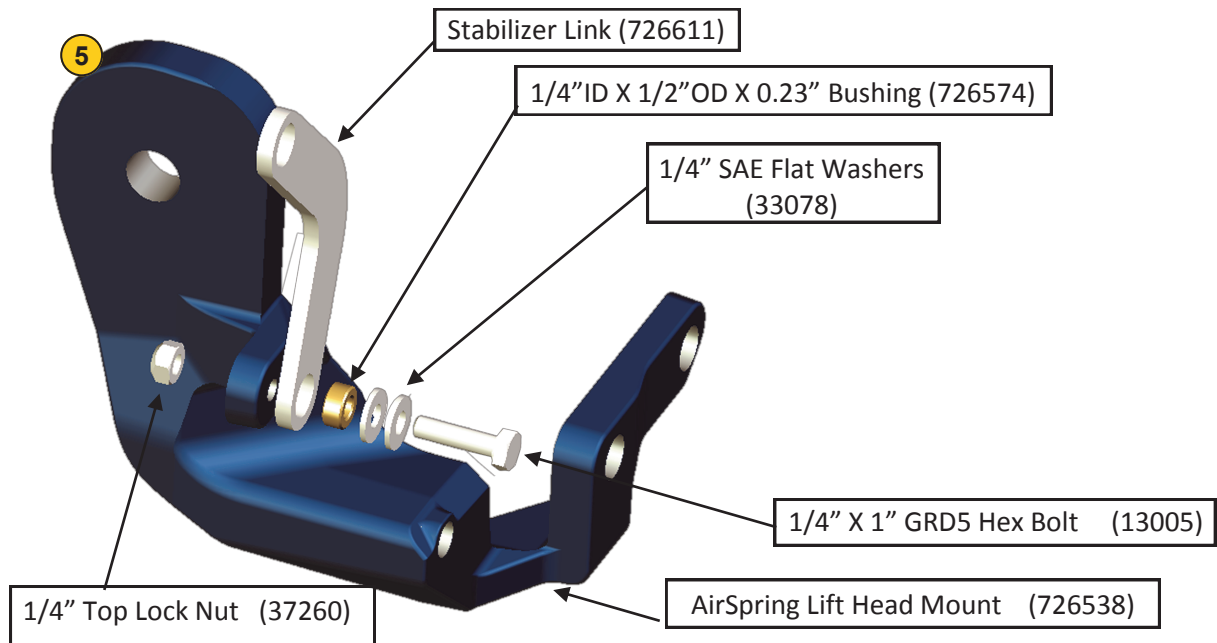
Note: For row units equipped with a R.U.M., use the 5/16" bolt, nut, and washers provided in place of the 3/8" hardware. The RUM has a built in bushing that makes the supplied bushing unnecessary.

Use caution not to pinch any RUM wires between the RUM and the Base Mount.



Alternate View

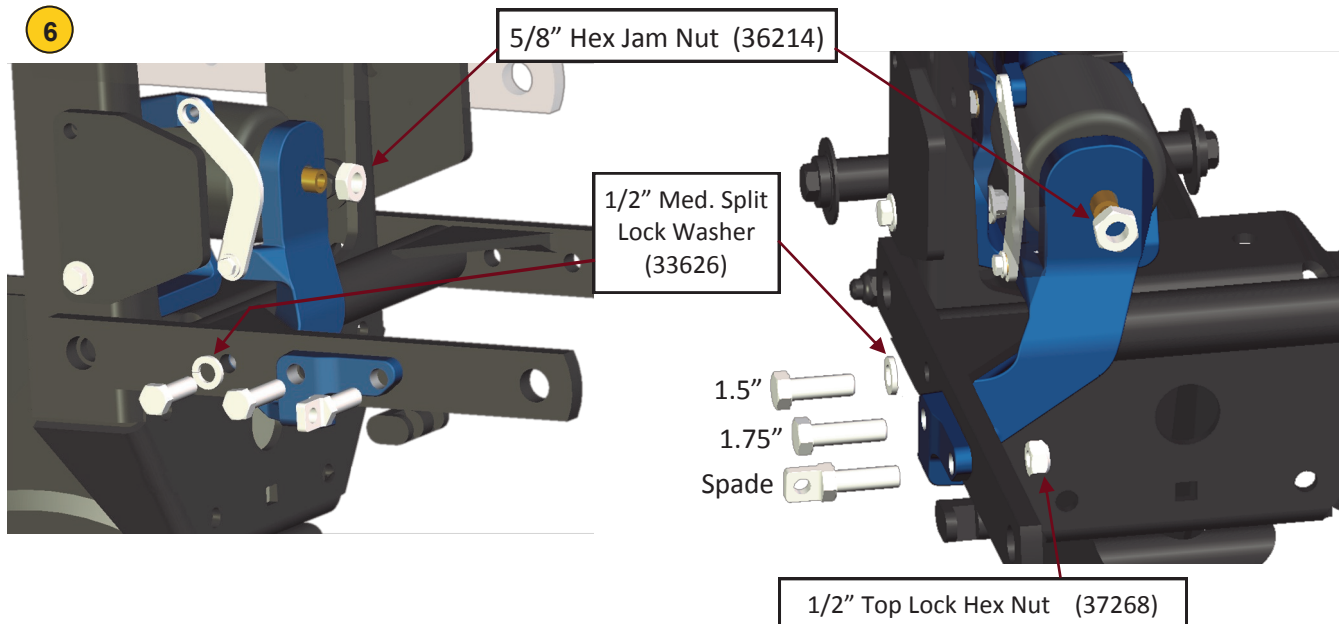
5. Next, pre-assemble the AirSpring Lift Head Mount (726538) to the Stabilizer Link (726611) as shown using a 1/4" X 1" GRD5 Hex Bolt (13005), 1/4" SAE Flat Washer (33078)** , a 1/4"ID X 1/2"OD X 0.23" Bushing (726574), and one 1/4" Top Lock Nut (37260).



Note: The 1/4" Washers here and in Step #7 are used to provide freedom of motion of the Stabilizer Link. Extra washers may be used to vertically align the Stabilizer Link. It may be necessary to modify the number of washers installed in order to properly align the link vertically with a free range of motion.

6. Place the pre-assembled Head Mount / Stabilizer in place over the stud of the Lift Bag and align both the Stabilizer Link, with the Base Pivot; and the forward portion of the Mount with holes in the lower right parallel arm. Secure the Head Mount to the Lift AirSpring using the 5/8" Hex Jam Nut (36214). Tighten to 10-12lb-ft of torque.

The row unit images below are generalized to show different bolting patterns available. **Secure the Head Mount to the parallel arm using TWO of the THREE 1/2" bolt options.** Detailed images of the Spade bolt and hole configuration of the Head Mount are given below.



Hole 1:

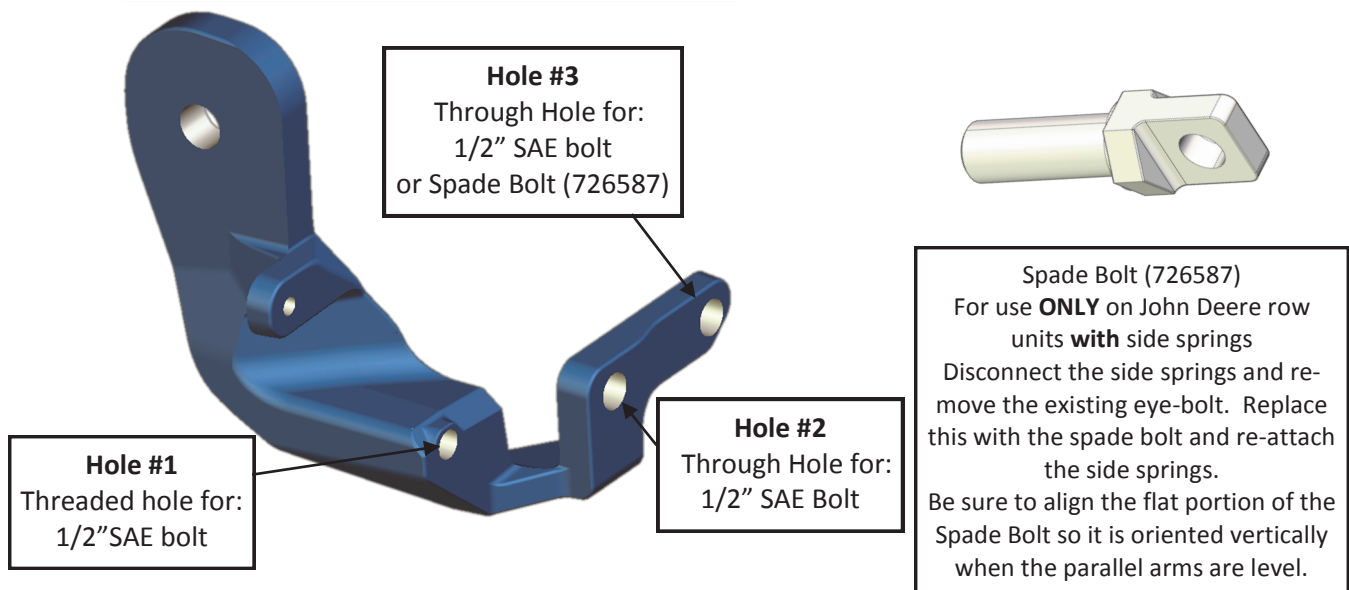
Threaded,
Used in all configurations,
Use the 1/2" X 1.5" GRD5 Bolt (13209)
&, 1/2" Med. Split Lock Washer (33626)

Hole 2:

Through Hole,
Used on **Kinze** row units,
Use the 1/2" X 1.75" GRD5 Bolt (13210)
&, 1/2" Top Lock Hex Nut (37268)

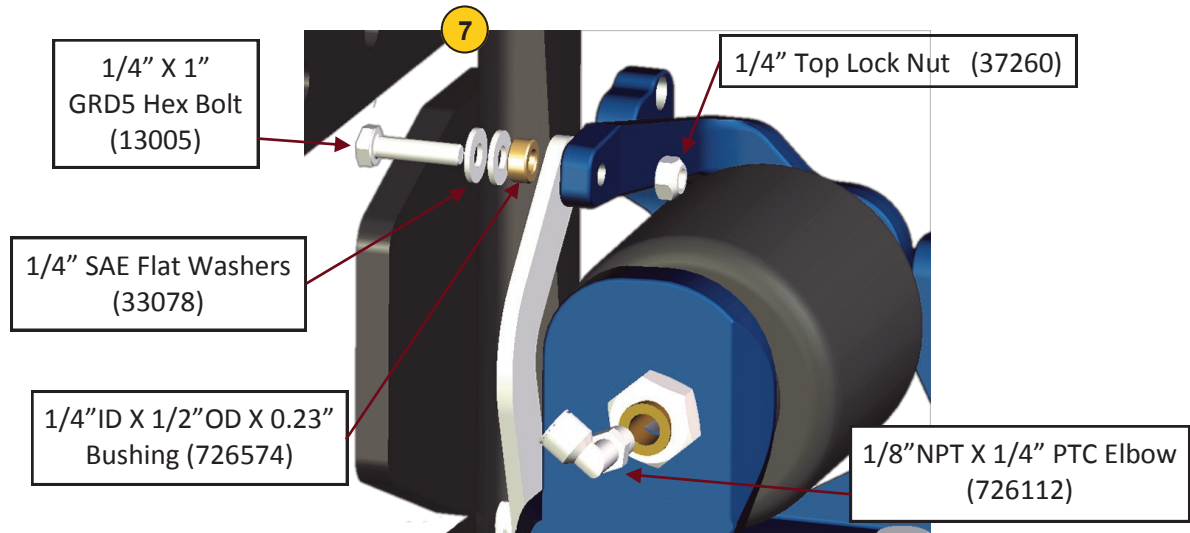
Hole 3:

Through Hole,
Used on **John Deere** row units,
Use the 1/2" X 1.75" GRD5 Bolt (13210) **OR**
the 1/2" X 1.5" GRD5 Spade Bolt (726587)
&, the 1/2" Top Lock Hex Nut (37268)





Note: The 1/4" Washers here and in Step #7 are used to provide freedom of motion of the Stabilizer Link. Extra washers may be used to vertically align the Stabilizer Link. It may be necessary to modify the number of washers installed in order to properly align the link vertically with a free range of motion.



7. Complete the conversion by fixing the upper half of the Stabilizer Link (726611) to the forward arm of the Lift AirSpring Base Pivot (726571) as shown. Secure the Stabilizer Link using 1/4" X 1" GRD5 Hex Bolt (13005), two** 1/4" SAE Flat Washer (33078), a 1/4"ID X 1/2"OD X 0.23" Bushing (726574), and one 1/4" Top Lock Nut (37260). Pay special attention to the Note at the top of the page to ensure a complete range of motion of the link without binding. Lastly, thread the 1/8" NPT X 1/4" PTC Elbow (726112) into the top of the Lift AirSpring stud. Tighten to hand tight + 1 turn.

8. Check tightness of all bolts and nuts, and freedom of motion/clearance of all components.

Completed Row Unit Conversion

726540
Kinze or John Deere 7000
Pneumatic or Spring Downforce

