

Row Unit Conversion Instructions

for:

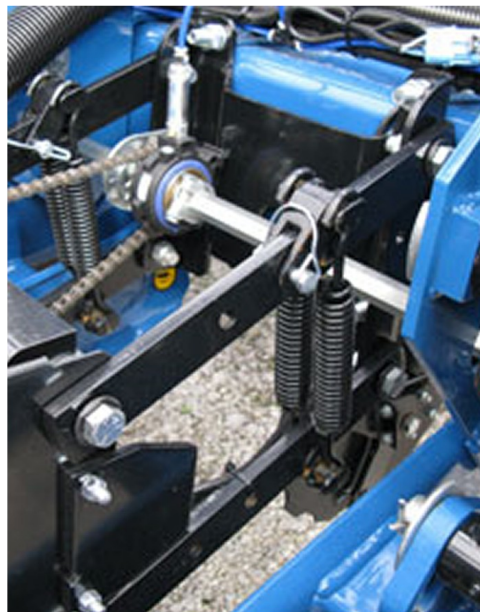
planter models:Kinze Push Row units ONLY

to convert from **Existing Springs:**.....Kinze Pneumatic Springs,
Kinze Side Springs,

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

with **Conversion Kit:**.....726550

Existing Springs



This conversion process applies to **Kinze** planters **PUSH ROW UNITS ONLY**. The examples shown below are generic diagrams; 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

Quantity	Part Number	Part Name	Description
1	726101	Spring	Lift Air Spring
1	726541	Mount	Lift Air Spring Head Mount (Push)
1	726553	Mount	Lift Air Spring Base Mount
1	726571	Pivot	Lift Air Spring Base Pivot
1	726602	Lock-Up	Kinze Push Row Unit Lock Up (2000)**
1	726603	Lock-Up	Kinze Push Row Unit Lock Up (2000)**

Quantities are given per row

** Note: Only ONE Lock-Up will be used per row

Hardware Pack Components

Quantity	Part Number	Part Name	Description
2	13005	Bolt	1/4" X 1" GRD5 Hex ZN
2	13108	Bolt	3/8" X 1.375" GRD5 ZN
1	13109	Bolt	3/8" X 1.5" GRD5 ZN
1	13208	Bolt	1/2" X 1.375" GRD5 ZN
1	13210	Bolt	1/2" X 1.75" GRD5 ZN
1	13211	Bolt	1/2" X 2" GRD5 ZN
1	15110	Bolt	3/8" 1.75" GRD8 ZNY
2	33078	Flat Washer	1/4" SAE Flat ZN
1	33086	Flat Washer	1/2" SAE Flat ZN
1	33622	Lock Washer	3/8" Med. Split Lock ZN
1	33626	Lock Washer	1/2" Med. Split Lock ZN
2	33859	Flat Washer	3/8" USS Flat Hight-Strength ZNY
1	36214	Hex Jam Nut	5/8" Nut ZN
2	37260	Hex Nut	1/4" Top Lock ZN
3	37264	Hex Nut	3/8" Top Lock ZN
2	37268	Hex Nut	1/2" Top Lock ZN
1	726112	Elbow	1/8" NPT X 1/4" PTC Elbow
1	726115	Tee	1/4" PTC Tee
2	726574	Bushing	1/4"ID X 1/2"OD X 0.23" Sleeve Bearing
2	726586	Bushing	3/8"ID X 5/8"OD X 9/16" Sleeve Bearing
1	726604	Bushing	1/2"ID X 5/8"OD X 0.294" Sleeve Bearing
1	726627	Wave Washer	5/8" Spring Washer
1	879112	Bolt	5/16" X 0.88" ZNY with Nylon
1	726066	Link	Positioning Link

Quantities are given per row

** Note: Some parts and hardware are exclusively for 2000 series row units, while others for 3000 series row units.

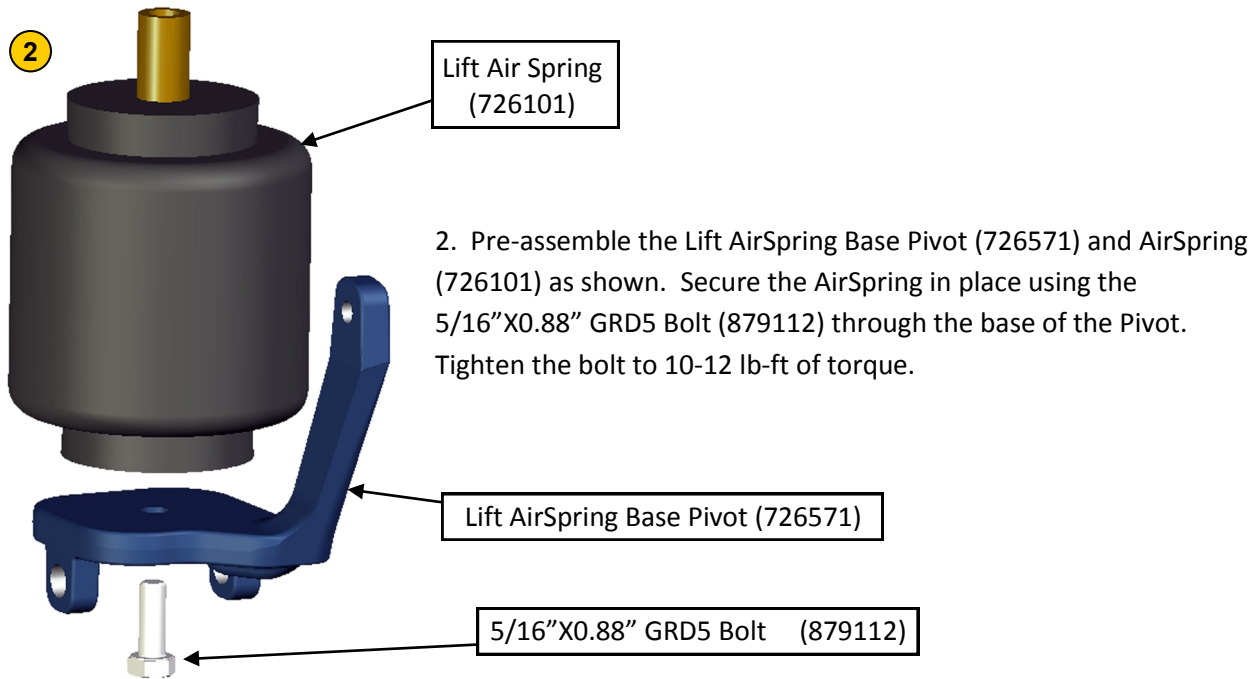
Recommended tools (not provided):

Open end wrenches: 7/16", 1/2", 9/16", 3/4", 15/16"

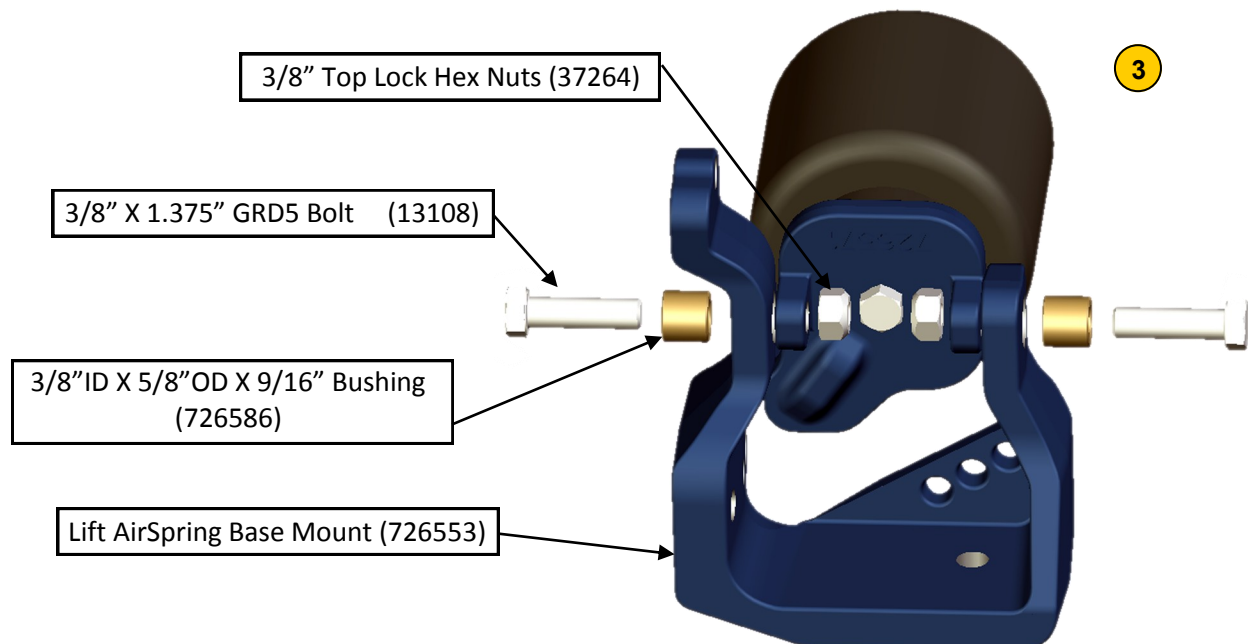
- or suitable crescent wrench (s)

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

1. Begin installation by removing tension from the existing springs (It may help to remove the weight of the row unit from the parallel arms by lowering the planter). Next, remove the hopper and meter from the row unit and set aside.



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 both the Pivot arm and the flange with pre-drilled holes facing forward.



4. When standing in front of the row unit, place the completed assembly in the lower left hand corner of the top plate and upright side panel. The assembly will be fixed in place horizontally through the side of the shank upright approximately 1.75" above the top plate of the shank. The hardware for the top bolt hole will be universal across all Kinze models. The hardware for the bottom hole location will be different for 2000 vs. 3000 series Kinze planters. See below.

Top Bolt Hole:

3/8" X 1.75" GRD8 ZNY Bolt (15110)

2 - 3/8" USS Hi-Strength ZNY Flat Washer (33859)

3/8" Top Lock Hex Nut ZN (37264)

Bottom Bolt Hole:

3/8" X 1.5" GRD 5 ZN Bolt (13109)

3/8" Med. Split Lock Washer ZN (33622)

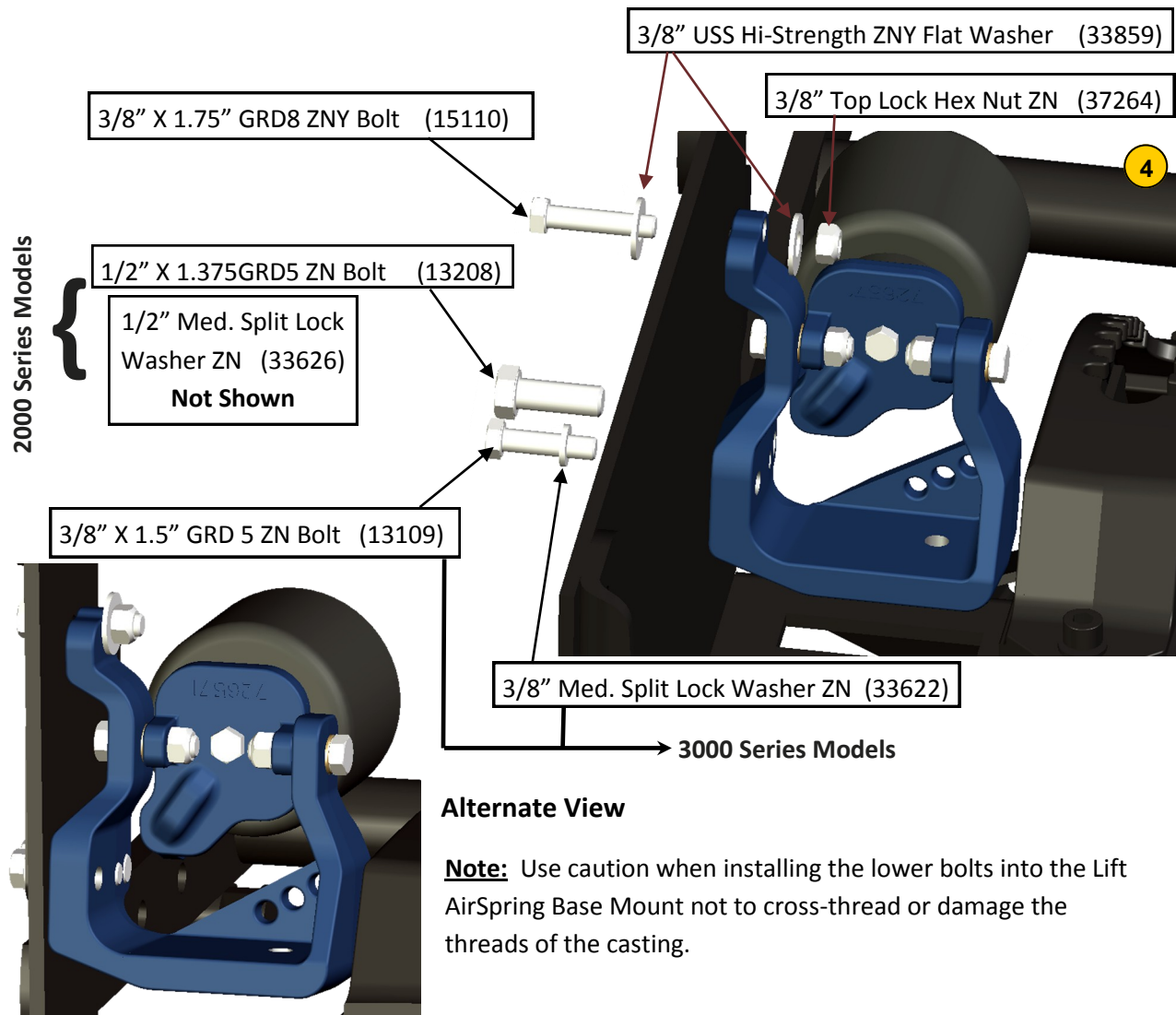
} **3000 Series Models**

OR

1/2" X 1.375GRD5 ZN Bolt (13208)

1/2" Med. Split Lock Washer ZN (33626)

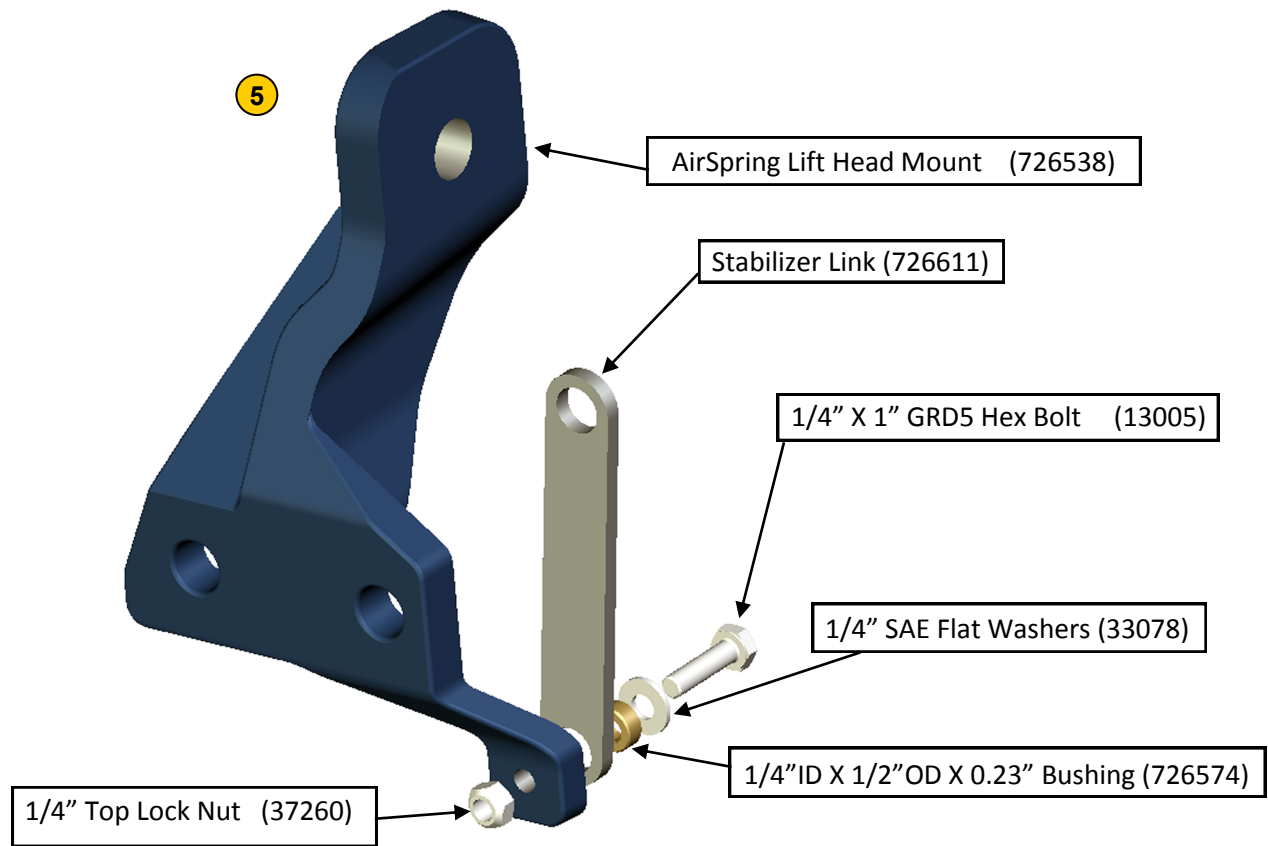
} **2000 Series Models**



Alternate View

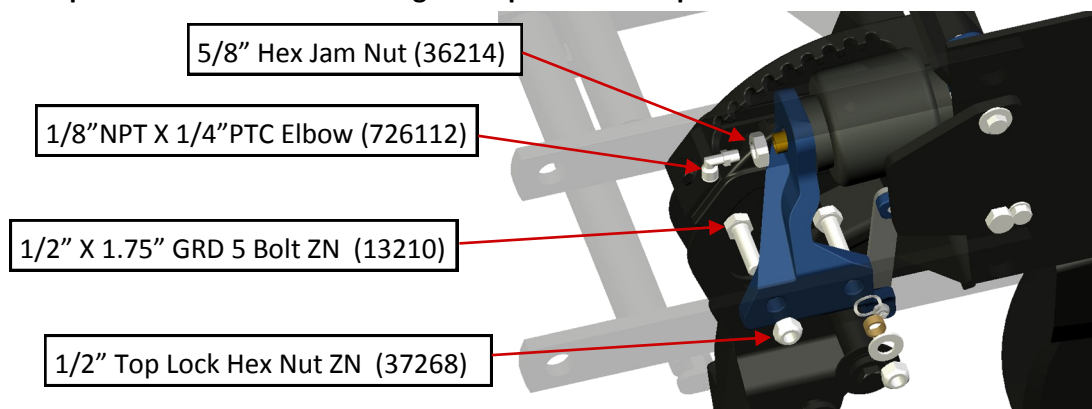
Note: Use caution when installing the lower bolts into the Lift AirSpring Base Mount not to cross-thread or damage the threads of the casting.

5. Next, pre-assemble the AirSpring Lift Head Mount (726541) to the Positioning Link (726066) 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).



Continue to the following page.

- 6** This will require the removal the existing lock-up mechanism prior to installation.



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

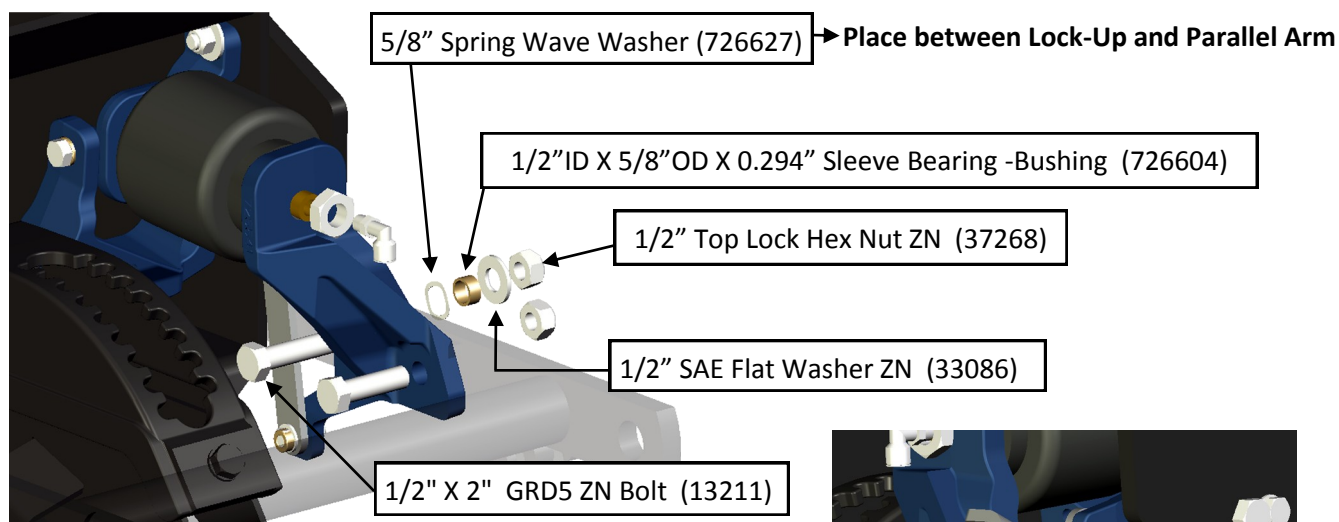
Install the 1/8"NPT X 1/4"PTC Elbow (726112) into the top of the Lift Air Spring. Tighten to Hand Tight + 1 turn. Secure the Head Mount to the lower right hand parallel arm using:

Forward Bolt

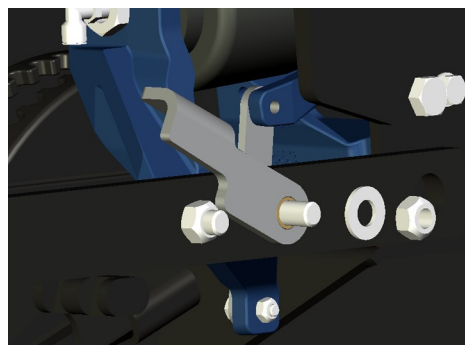
1/2" X 2" GRD5 ZN Bolt (13211)
 1/2" Top Lock Hex Nut ZN (37268)
 1/2"ID X 5/8"OD X 0.294" Sleeve Bearing—
 Bushing (726604)
 5/8" Spring Wave Washer (726627) ** See Note
 1/2" SAE Flat Washer ZN (33086)

Rear Bolt

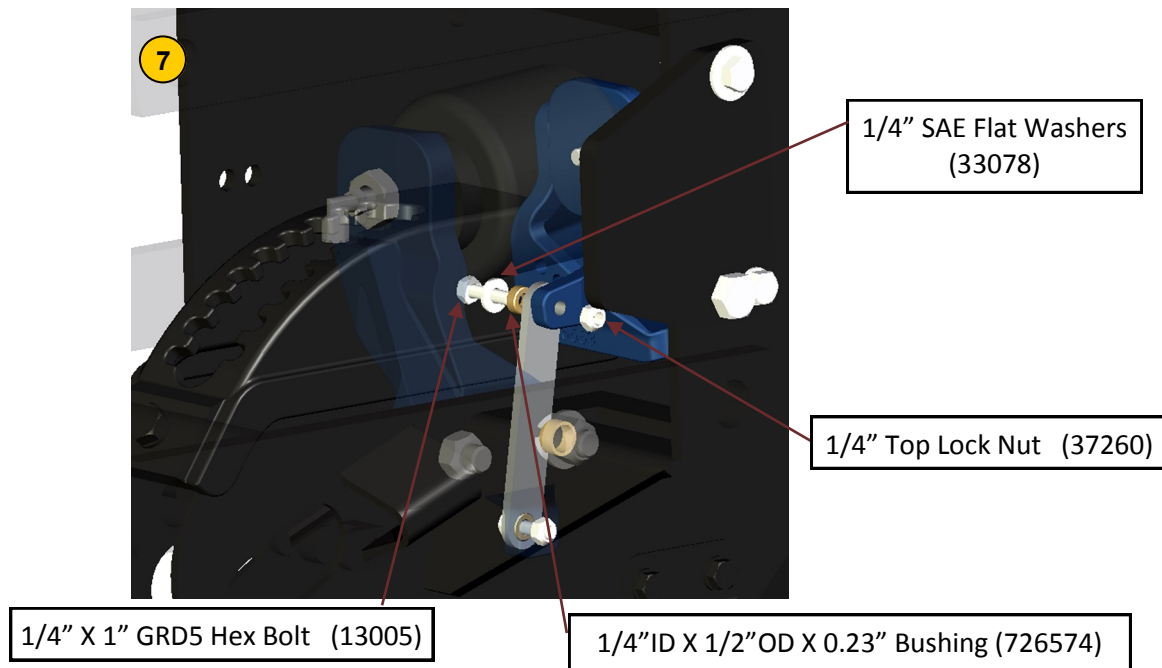
1/2" X 1.75" GRD 5 Bolt ZN (13210)
 1/2" Top Lock Hex Nut ZN (37268)



Note the Placement of the Lock-Up **over the bushing** on the rear bolt, between the spring wave washer and the flat washer. Two Lock-Up's are provided, only **ONE** will be used.
 Kinze 3000: use the 4.425" long Lock-Up
 Kinze 2000: use the 3.945" long Lock Up



7. Complete the conversion by fixing the upper half of the Positioning Link (726066) to the forward arm of the Lift AirSpring Base Pivot (726571) as shown. Secure the Stabilizer Link 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). Pay special attention to the Note below to ensure a complete range of motion of the link without binding.



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

See the following page for Completed Row Unit Conversion images.

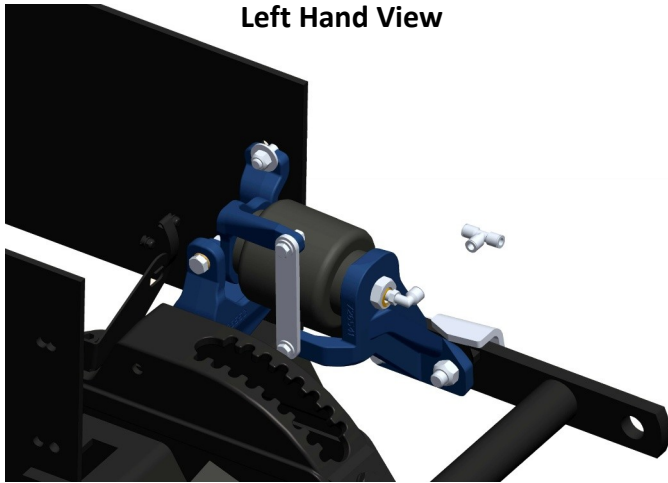
Completed Row Unit Conversion

726550

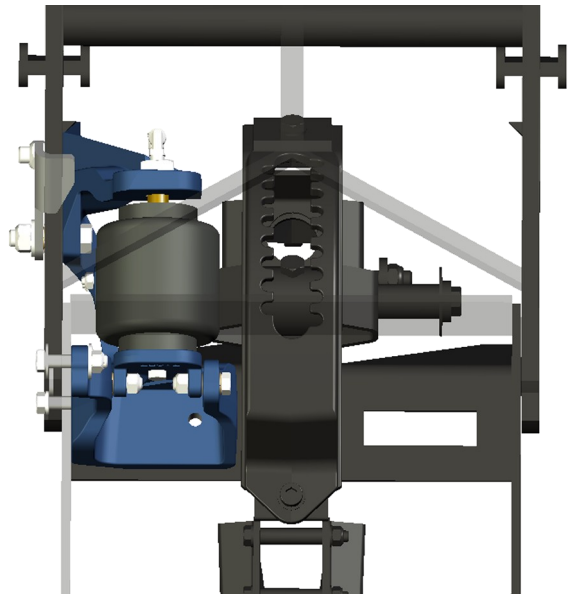
Kinze Push Row Units

Pneumatic or Spring Downforce

Left Hand View



Top View



Right Hand View

