

Row Unit Conversion Instructions

for:

planter models:JD17XX / 7200 / 7300

to convert from **Existing Spring:**.....JD Single/ Dual Pneumatic Spring Assembly

to **Resulting Forces Controlled:**.....Down & Lift

with **Conversion Kits:**.....726325



JD Center Single Pneumatic Bag

Existing Springs



JD Center Dual Pneumatic Bags

This conversion process applies to planters with **Regular** or **Long** parallel arms and **Chain** or **Pro Shaft** Driven meters. 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 the completed conversion of these are located at the end of this instruction.

Conversion Kit Components

726325	Part Number	Part Name	Description
1	726101	Spring	Lift Air Bag
1	726225	Bracket	Lift Spring Mounting Bracket
1	726242	Plate	*Positioning Plate
1	726226	Bar	Lift Spring Bar
1	726352		Hardware Pack

* Only to be installed on row units WITHOUT vacuum brackets

Quantities are given per row

Hardware Pack Components

QTY	PART NUMBER	PART NAME	DESCRIPTION
2	33094	Washer	**7/8 SAE Flat ZN
1	36214	Hex Jam Nut	5/8-11 Nut ZN CL
2	38403	Washer	M6 Flat ZN CL
2	38568	Bolt	M6-1.0 x 35 ZN CL
2	90680	Hex Nut	M6-1.0 Top Lock Nut ZN CL
1	23332	Hex Nut	M8-1.25 Top Lock Nut 10.9 ZN CL
1	32443	Bolt	M12-1.75 X 45 Class 10.9 ZN Y
1	726066	Link	Positioning Link
2	726070	Bushing	1/4 - 1/2 x .5 Sleeve Bearing
2	726098	Bushing	1/2 - 1 x .92 Sleeve Bearing
1	726106	Male Fitting	1/8 NPT x 1/4 PTC Straight
1	726115	Tee	1/4 PTC Tee
2	726205	Hex Nut	M12-1.75 Top Lock Nut ZN Y
2	726227	Hex Nut	**3/4-16 Collar Nut
2	726258	Bushing	1/2 - 1 x .69 Sleeve Bearing
1	726261	Bolt	5/16 x 18 FH (Fastenal 94253)
2	726374	Adapter	1/8 NPT Male x 1/8 NPT Female
2	32599	Bolt	M12-1.75 X 70 Class 10.9 ZN Y
1	0162403	Bolt	M8-1.25 X 25 ZN Y

Quantities are given per row

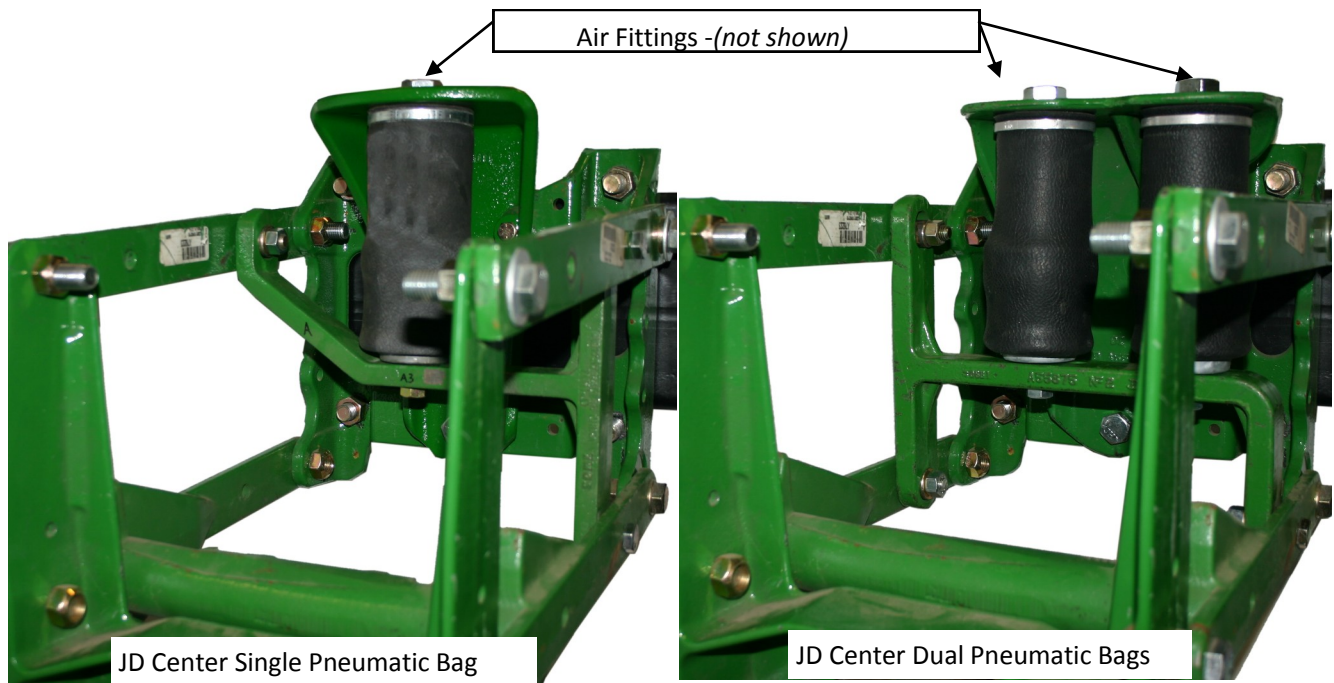
NOTE: **Some extra hardware included for use ONLY
with Dual Pneumatic Down Force Systems

Recommended tools (not provided):

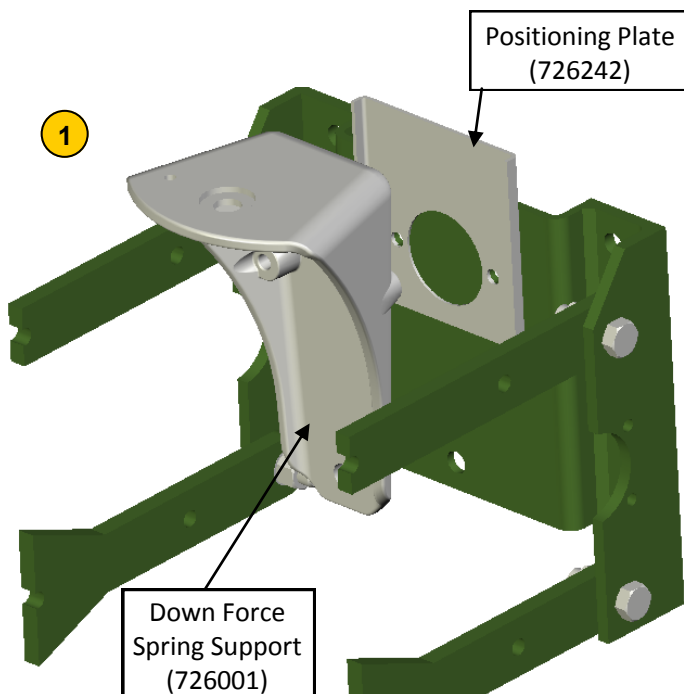
Open end wrenches: 3/8", 7/16" 1/2", 3/4", 15/16",
1-1/8", 10MM, & 19MM

- or suitable crescent wrench

Sockets (Deep well recommended): 1/2" 3/4", 10MM, & 19MM



Before beginning the conversion process, release all pressure from your existing Air Bags. Remove the air fitting (s) and Jam nut (s) from the top side of the Down Force Spring Support.



1. For planters without a vacuum tube bracket, a positioning plate has been included. Remove the two M10 bolts from the top of the Down Force Spring Support and back out the M16 bolt at the bottom center of the bracket. Align the Positioning Plate(726242) as shown at left. When re-installing the bolts, leave them loose to facilitate alignment of further items.



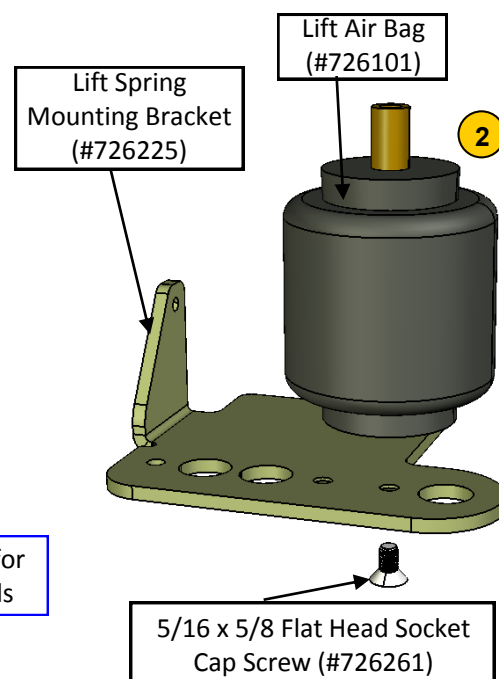
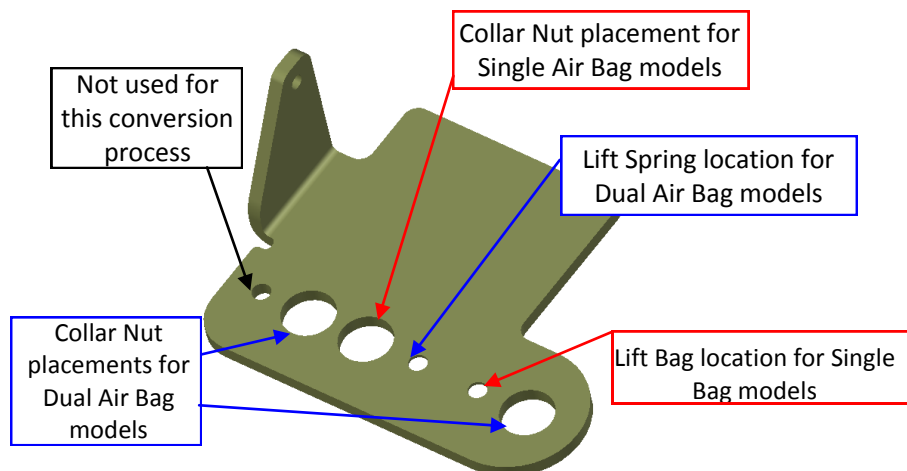
For planters with a vacuum tube bracket simply loosen all three bolts at this point but do not remove.

Note: it may be necessary to remove the Air Bag (s) to access the M10 and M16 bolts. This can be done via loosening the bolt from the base of the Air Bag through the Air Spring Support Bar.

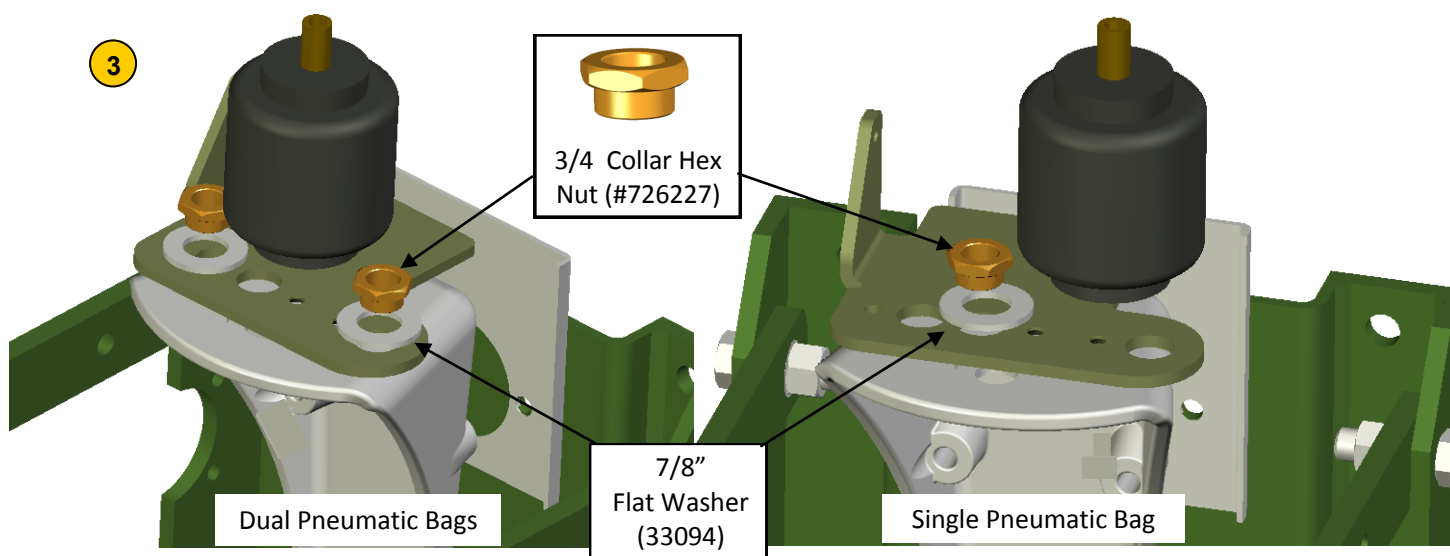
2. Assemble separately: Position the Lift Air Bag (#726101) on the Lift Spring Mounting Bracket (#726225) as shown at right. Fix the Lift Air Bag in place from the underside of the Mounting Bracket using the 5/16 x 5/8 Flat Head Socket Cap Screw (#726261). This will require the use of a 3/16" Allen wrench. The 5/16" Cap Screw should be tightened to 4-5 lb-ft of torque.



Note: This is a universal mounting bracket, not all conversions will require all openings.



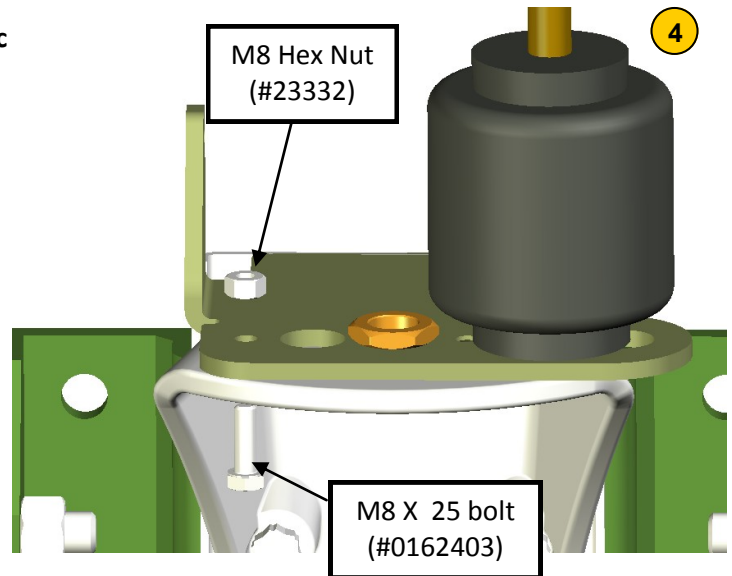
3. Place the Lift Spring assembly on top of the Down Force Spring Support and align according to your model needs. Fix in place through the Down Force Support to the Down Force Air Bags using the Collar nut(s) (#726227) and 7/8" flat washer(s) (#33094) — Note: not all configurations will require the use of the 7/8" washer, ensure a good snug fit of collar nut with or without the use of the washer. Tighten Collar Nuts to 15lb-ft of torque. Next, tighten the M10 and M16 bolts through the Down Force Support Bracket. Note: the configuration will likely not fit perfectly together. This is intended, and is to ensure the Positioning Plate/ Lift Bag are secured as the Down Force Spring Support bolts are tightened





The following step is for Single Pneumatic systems ONLY! If your planter has Dual Pneumatic down bags, skip the following step and continue to Step 5.

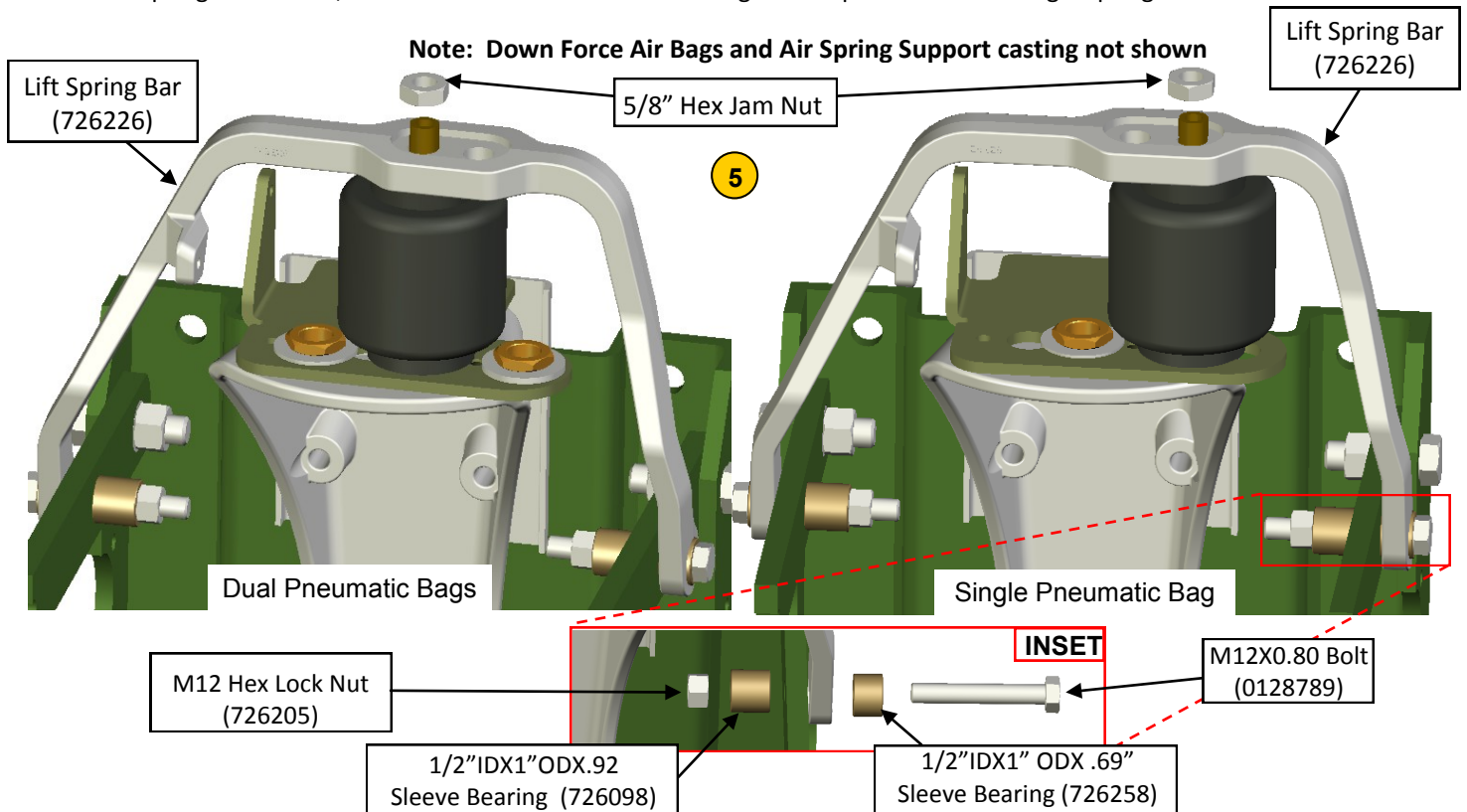
4. Using the left most hole on the Lift Spring Mounting Bracket as a guide, drill through the down Force Spring Support using a 21/64 drill (or next largest if not equipped). Be careful not to damage the Down Force air bag in the process. Install the M8 bolt (162403) and M8 nut (23332) as shown at right.



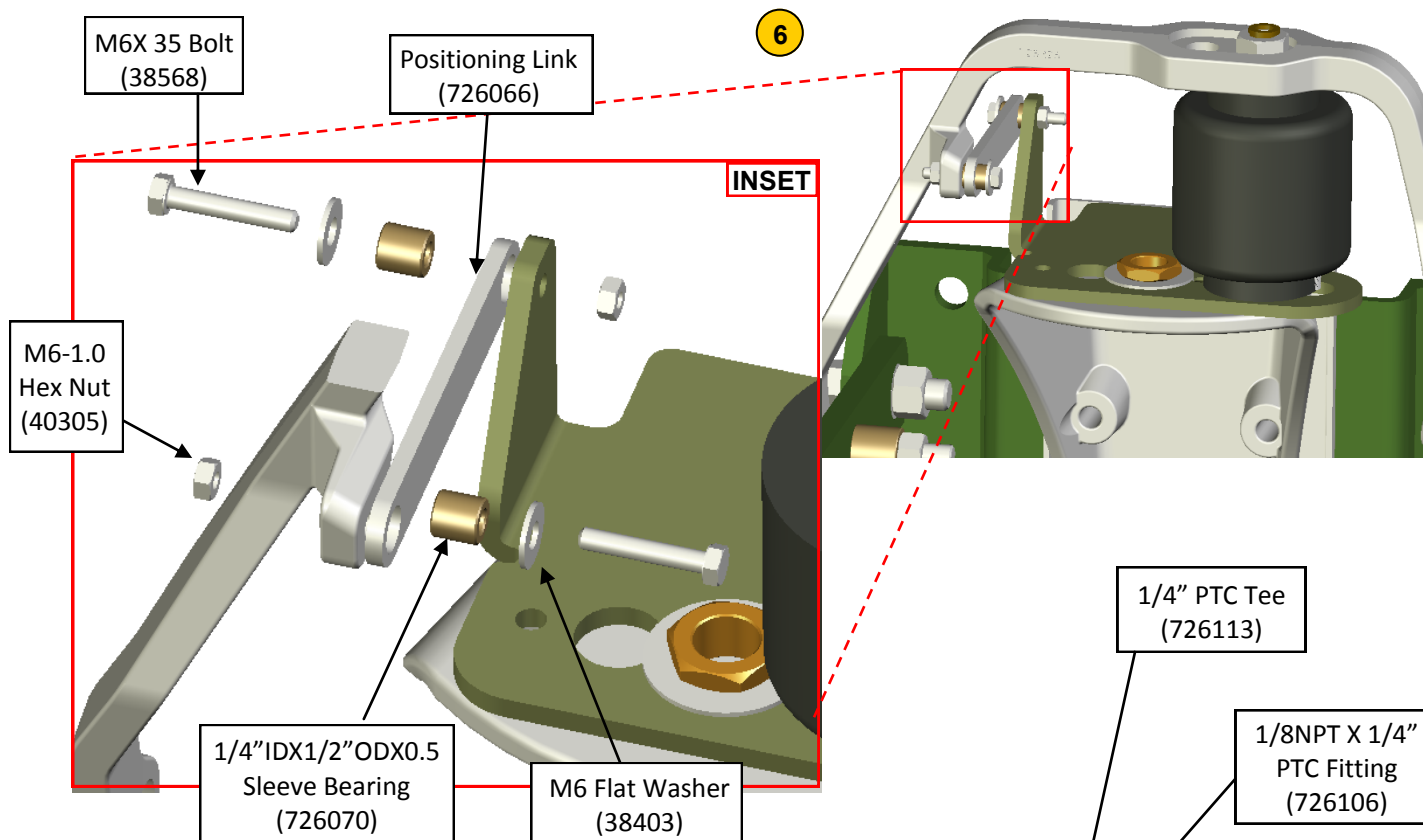
5. Next, align the Lift Spring Bar (#726226) over the Lift Air Bag and on the top parallel arms. First fasten the Spring Bar to the Air Bag using the 5/8" hex jam nut (#36214), this will help anchor the Spring Bar during the next step. The 5/8" nut should be tightened to 10-12 lb-ft -in of torque.

Secure the Lift Spring Bar to the top parallel arms using (in order from outside the parallel arms to the inside) two M12X80 bolts (0128789), two 1/2" ID X 1" OD X 0.69" Sleeve Bearings (726258), *-the parallel arms-* then, two 1/2" ID X 1" OD X 0.98" sleeve bearings (726098), and finally two M12 hex lock-nuts (726205). See INSET from illustration 5 below. The Lift Air Bag may need to be manually compressed to align with the holes on the parallel arms.

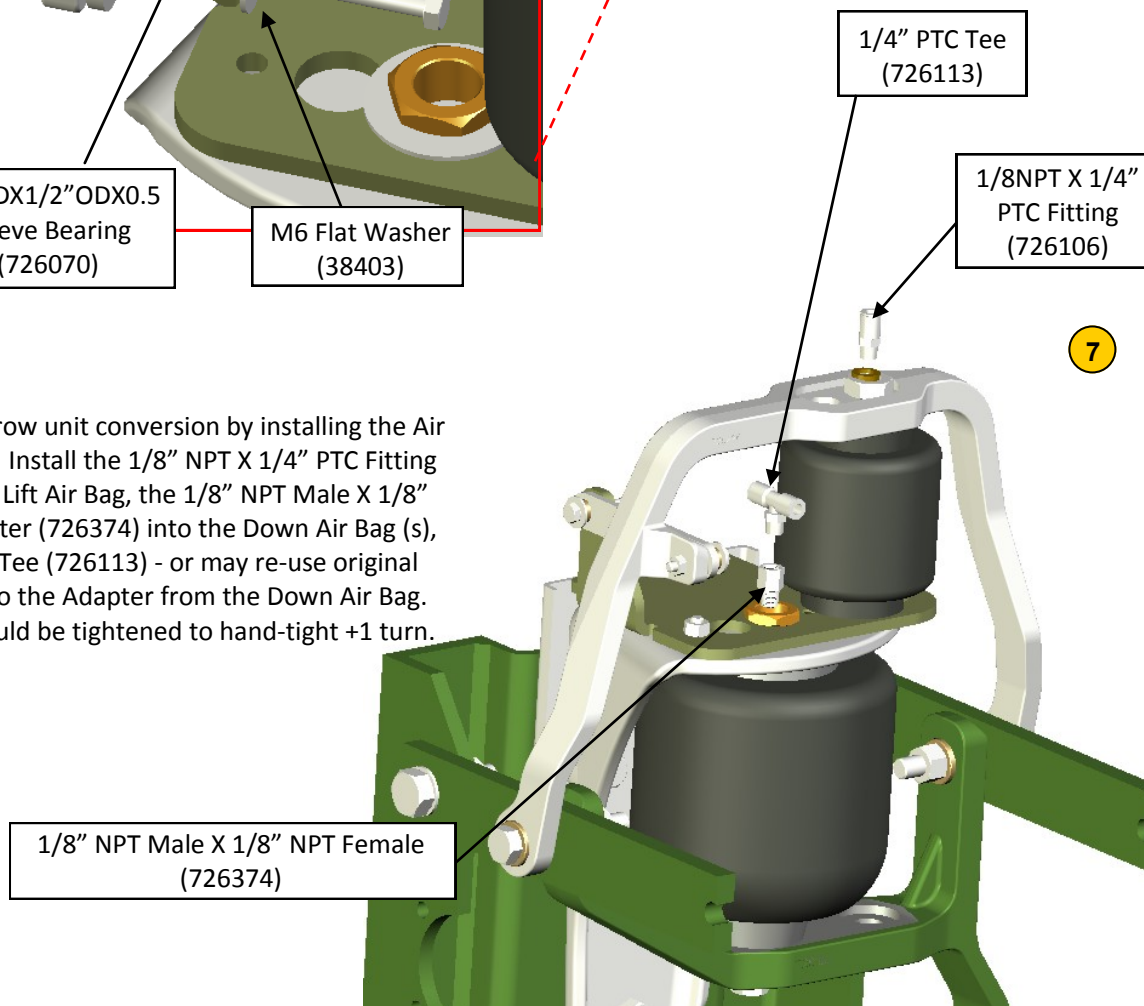
Note: The M12X55 bolt (0128789) should be installed in the upper right hand parallel arm on Dual Spring Assemblies, use the M12X55 bolt in the lower right hand parallel arm on Single Spring Assemblies.



6. Next place the Positioning Link (#726066) between the Lift Spring Mounting Bracket and the Lift Spring Bar as shown (above left). Fix the Positioning Link in place using two M6 X 35 bolts (#38568), two 1/4"ID—1/2"OD sleeve bearings(#726070), M6 hex machine nut (#90680), and two M6 Flat Washers (#38403)

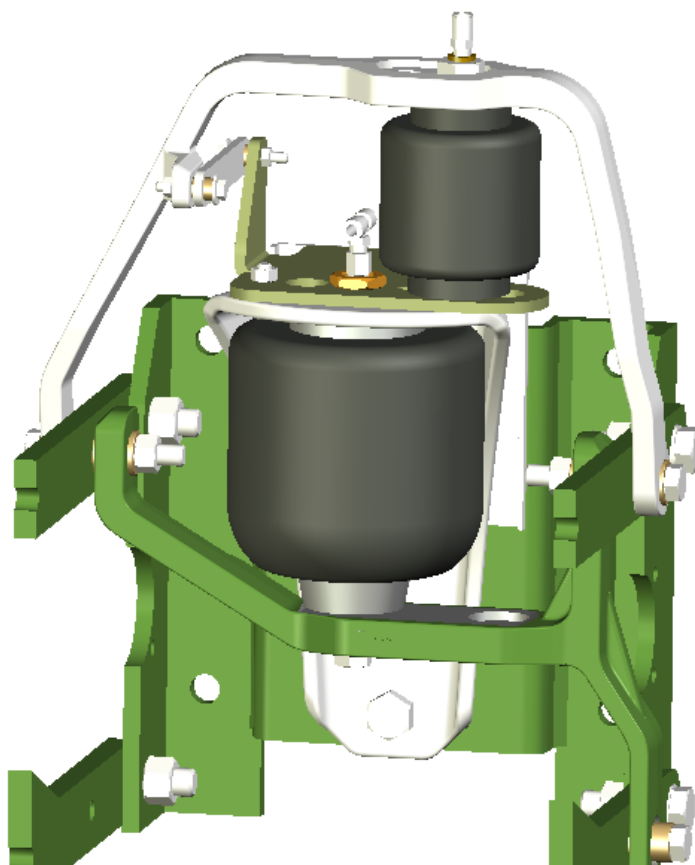


7. Complete the row unit conversion by installing the Air fittings as shown. Install the 1/8" NPT X 1/4" PTC Fitting (726106) into the Lift Air Bag, the 1/8" NPT Male X 1/8" NPT Female Adapter (726374) into the Down Air Bag (s), and the 1/4" PTC Tee (726113) - or may re-use original factory fitting. into the Adapter from the Down Air Bag. All air fittings should be tightened to hand-tight +1 turn.



8. Check tightness / torque recommendations of all connection points and freedom of motion / clearance of all components.

Completed Row Unit Conversions



Row Unit Conversion
for kits: 726325
Regular or Long Parallel Arms
Chain or Pro Shaft Driven