

Row Unit Conversion Instructions

for:

planter models:JD17XX / 7200 / 7300
to convert from **Existing Springs:**.....JD Single Pneumatic Spring
to **Resulting Forces Controlled:**.....Lift Only
with **Conversion Kit:**.....726525

Existing Springs



This conversion process applies to planters with **Regular** or **Long** parallel arms and **Chain** or **Pro Shaft** 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 Bag (Lift)
1	726549	Support	Air Spring Base
1	726551	Bracket	Air Spring Head Mount

Quantities are given per row

PN# - 726595

Hardware Pack Components

QTY	PART NUMBER	PART NAME	DESCRIPTION
1	13005	Bolt	1/4-20 x 1 GRD 5 BOLT ZN
1	36214	Hex Jam Nut	5/8-11 Nut ZN CL
2	726098	Bushing	1/2 - 1 x .92 Sleeve Bearing
1	726099	Bushing	1/2 - 7/8 x .92 Sleeve Bearing
1	726112	Elbow	1/8" NPT x 1/4" PTC
1	726115	TEE	1/4 PTC
1	726135	Stud	Air Spring Base Connector (SAE)
1	726631	TIE STRAP	17" x 3/16" UV BLACK
1	726706	Stud	Air Spring Base Connector (Metric)
1	955172	Instruction Insert	Connector Stud instruction note - see below

Quantities are given per row

Recommended tools (not provided):

Open end wrenches: 7/16" 15/16", 1-1/8", 15MM, 16MM, 19MM, & 24MM

- or suitable crescent wrench (s)

Sockets (Deep well recommended): 3/4", 16MM, 17MM, 19MM, & 24MM

Hardware Kit 726595 Installation Note

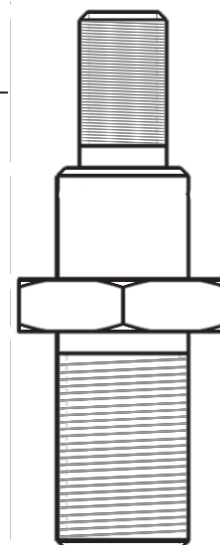
For use with Lift Conversion Kit 726525 on JD 72XX and 17XX model Planters

You have received two AirSpring Connector Studs— example at right. Only one will be used during the installation of the 726525 Lift Conversion Kit. For planters made:

Prior to MY2011: Use the yellow plated connector stud, part number 726135. This connector has SAE 1/2-13 UNC threads to match the airsprings used on those model year planters.

MY2011 and after: Use the clear plated connector stud, part number 726706. This connector has Metric M12 X 1.75 ISO threads to match the airsprings used on those model year planters.

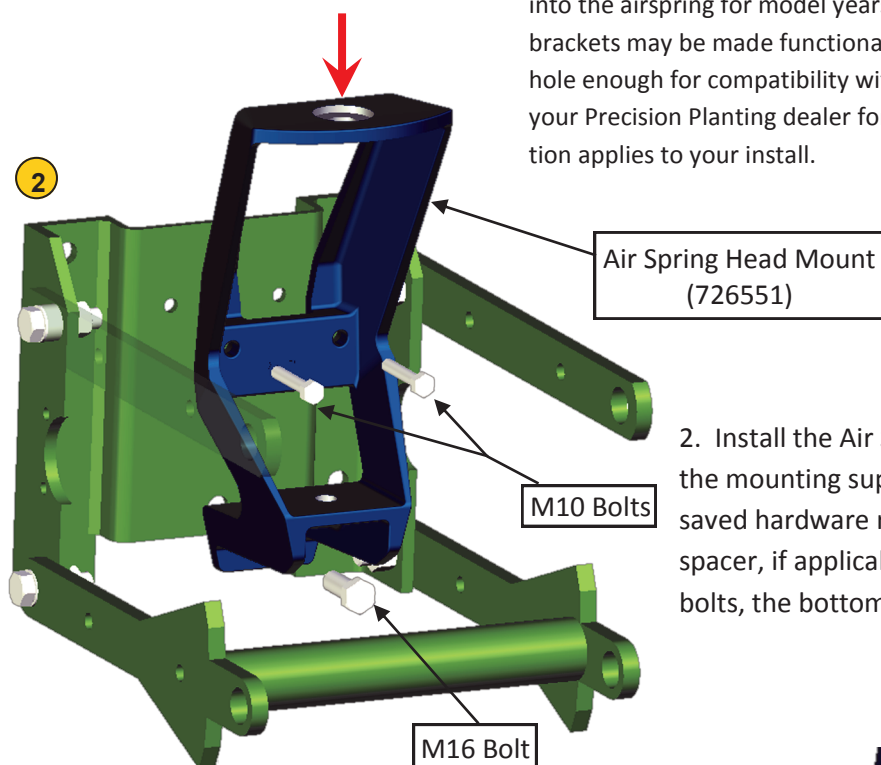
If you are unsure of the model year of your planter, one simple means of identifying 2011+ planters is the use of 3/8" tubing to/between the airsprings. Planters made prior to MY2011 will have 1/4" tubing to/between the airsprings. If you are still unsure as to which connector to use, you can verify your planters model year with your local John Deere or Precision Planting dealers



955172_01 2/11

1. Begin installation by removing pressure from the existing Air Bags. Once the pressure is removed, remove the existing spring assembly and set aside. Retain all hardware from the mounting support plate and parallel arms for use in re-assembly.

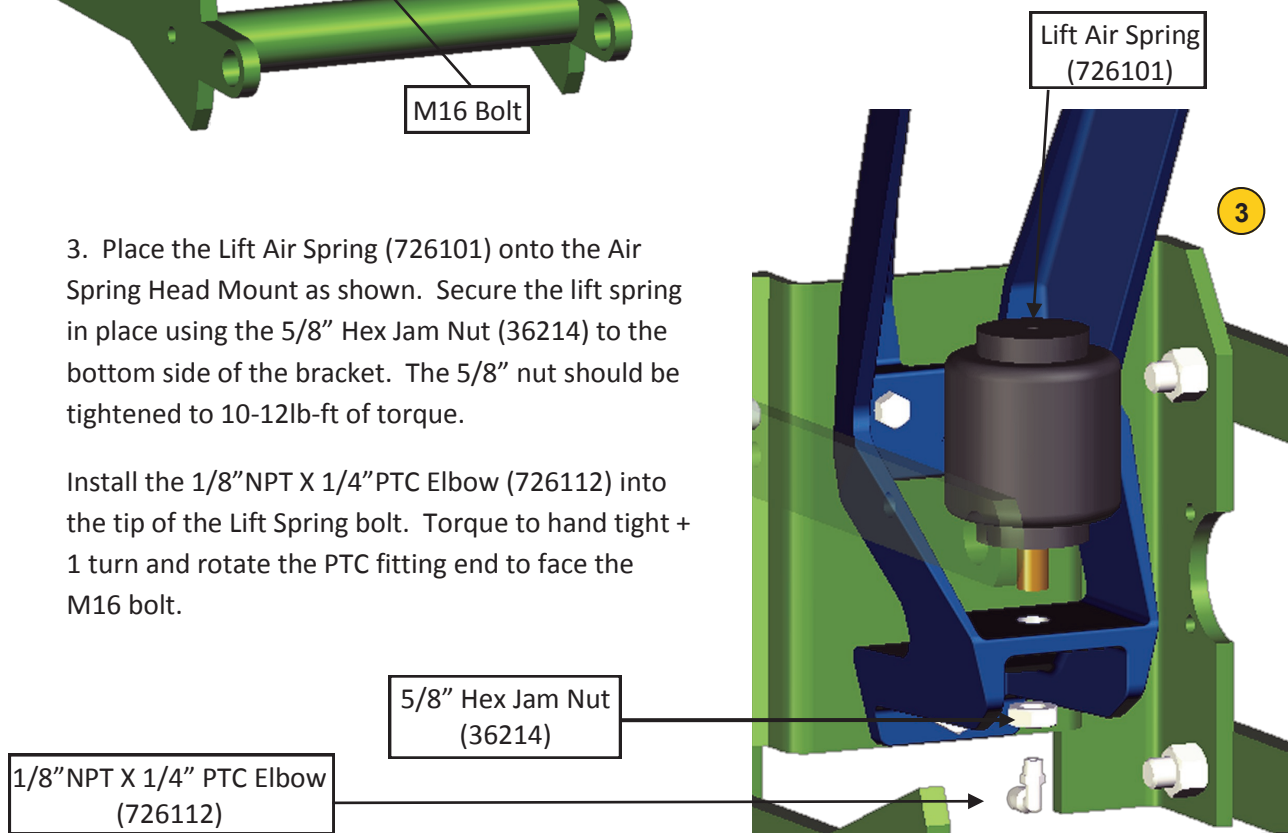
NOTE: if installing on MY2011+ planters, verify that the top fitting stud on the airspring will fit through the hole in the AirSpring Head Mount (726551). Larger fitting studs are used to accommodate larger pneumatic fittings into the airspring for model years 2011 and newer. Non-compatible brackets may be made functional using a 7/8" drill bit to widen the hole enough for compatibility with the larger fitting stud. Contact your Precision Planting dealer for further information if this situation applies to your install.

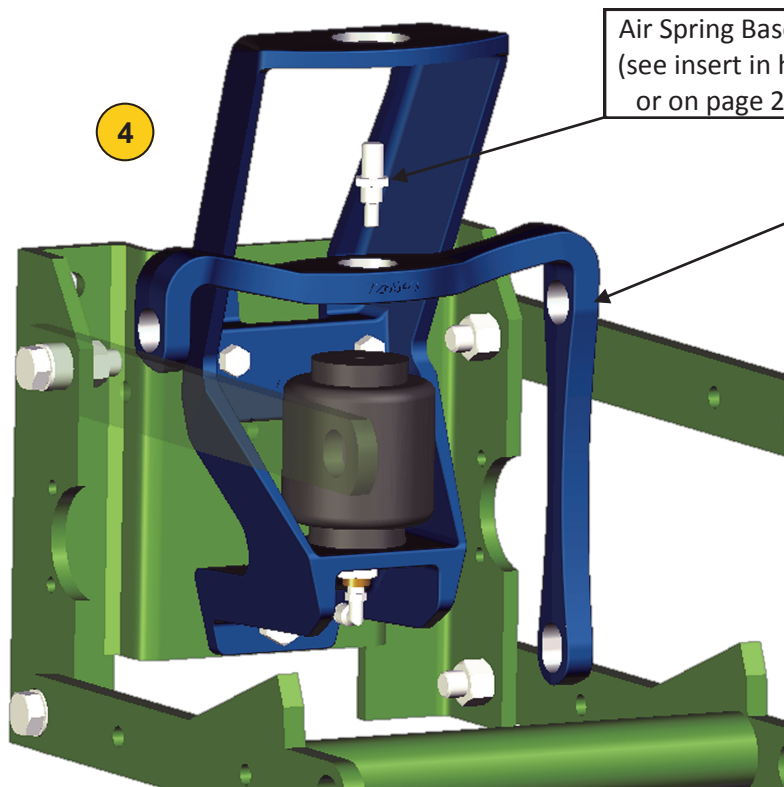


2. Install the Air Spring Head Mount (726551) against the mounting support plate as shown. Re-install the saved hardware removed in step one; as well as the spacer, if applicable. The two top holes are M10 bolts, the bottom hole is M16.

3. Place the Lift Air Spring (726101) onto the Air Spring Head Mount as shown. Secure the lift spring in place using the 5/8" Hex Jam Nut (36214) to the bottom side of the bracket. The 5/8" nut should be tightened to 10-12lb-ft of torque.

Install the 1/8" NPT X 1/4" PTC Elbow (726112) into the tip of the Lift Spring bolt. Torque to hand tight + 1 turn and rotate the PTC fitting end to face the M16 bolt.





Air Spring Base Connector Stud
(see insert in hardware packing
or on page 2 of instructions)

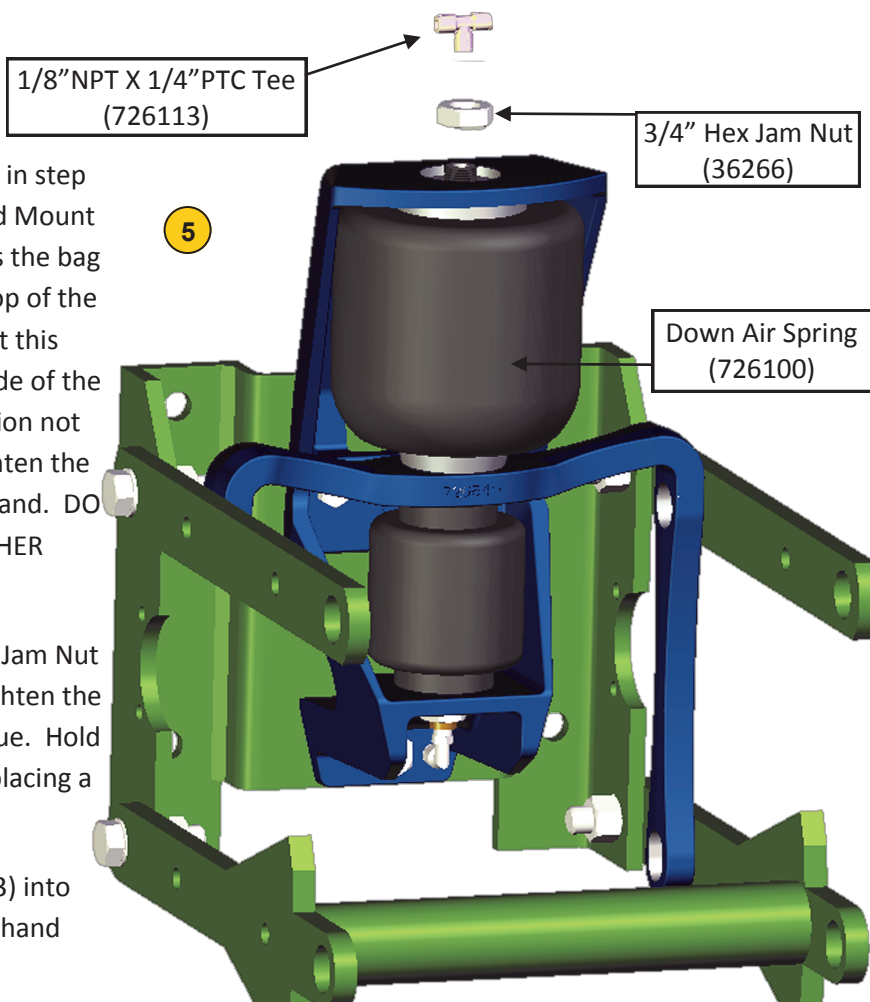
Air Spring Base Support
(726549)

4. Place the Air Spring Base Support (726549) on the top of the Lift Spring as shown. Align and secure the Support in place using the AirSpring Base Connector Stud (see insert in hardware packing or page 2 of these instructions for help on which connector stud to use). Hold the Lift Spring in place when tightening to avoid placing a twist on the bag. It may be beneficial to place a bolt through one of the parallel arms into the Support to keep it from rotating as well. Tighten the Stud to 5-6 lf-ft of torque.

5. Re-install the Down Air Spring, removed in step one, as shown between the Air Spring Head Mount and the Air Spring Base Support. Compress the bag and position the threaded casting on the top of the bag through the top of the Head Mount. At this point thread the bag onto the remaining side of the Air Spring Base Connector Stud taking caution not to cross-thread the bag onto the stud. Tighten the bag onto the stud as much as possible by hand. **DO NOT ATTEMPT TO TIGHTEN THE BAG FURTHER WITH ANY TYPE OF WRENCH.**

Next fix the bag in place using the 3/4" Hex Jam Nut (36266) on the top of the Head Mount. Tighten the jam nut to **NO MORE THAN 15 lb-ft of torque**. Hold the bag in place when tightening to avoid placing a twist on the bag.

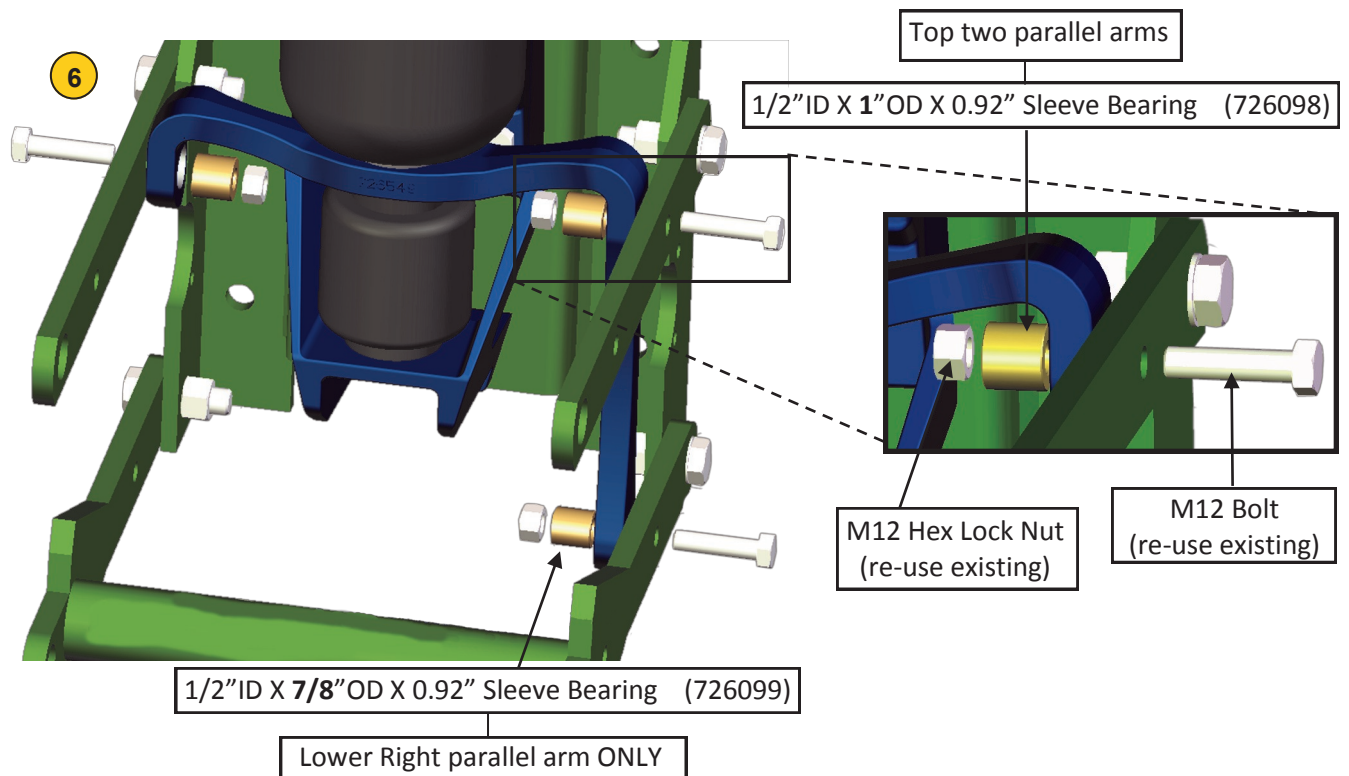
Thread the 1/8"NPT X 1/4"PTC Tee (726113) into the top of the Down Air Spring. Tighten to hand tight + 1 turn.



1/8"NPT X 1/4"PTC Tee
(726113)

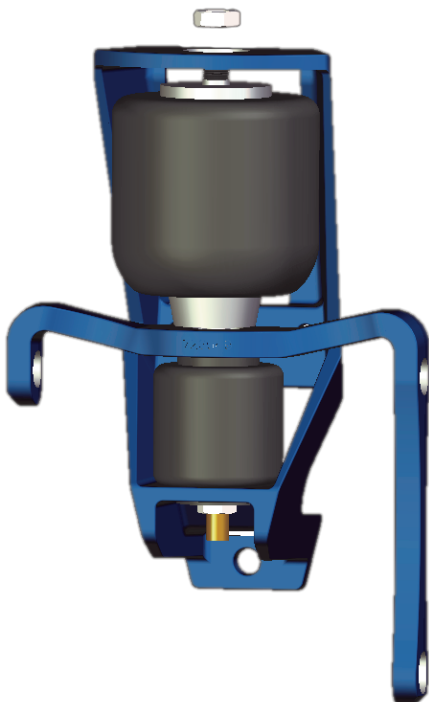
3/4" Hex Jam Nut
(36266)

Down Air Spring
(726100)



6. Fix the Air Spring Base Support into place by re-using the three - M12 Bolts and three - M12 Hex Lock Nuts removed in step one, along with the three supplied sleeve bearings. Use the two - 1/2"ID X 1"OD X 0.92" Sleeve bearings (726098) for the top two parallel arms and the one - 1/2"ID X 7/8"OD X 0.92" Sleeve Bearing (726099) in the lower right parallel arm.

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



Alternatively; the Air Spring Head Mount, both Air Springs, and the Air Spring Base Support can be pre-assembled outside of the row unit as shown. The conversion can then be completed by fixing the assembly to the mounting plate and parallel arms of the row unit. If assembled in this fashion, it is recommended to only hand tighten the components until the conversion is completed. Then tighten all bolts and nuts to proper torque.



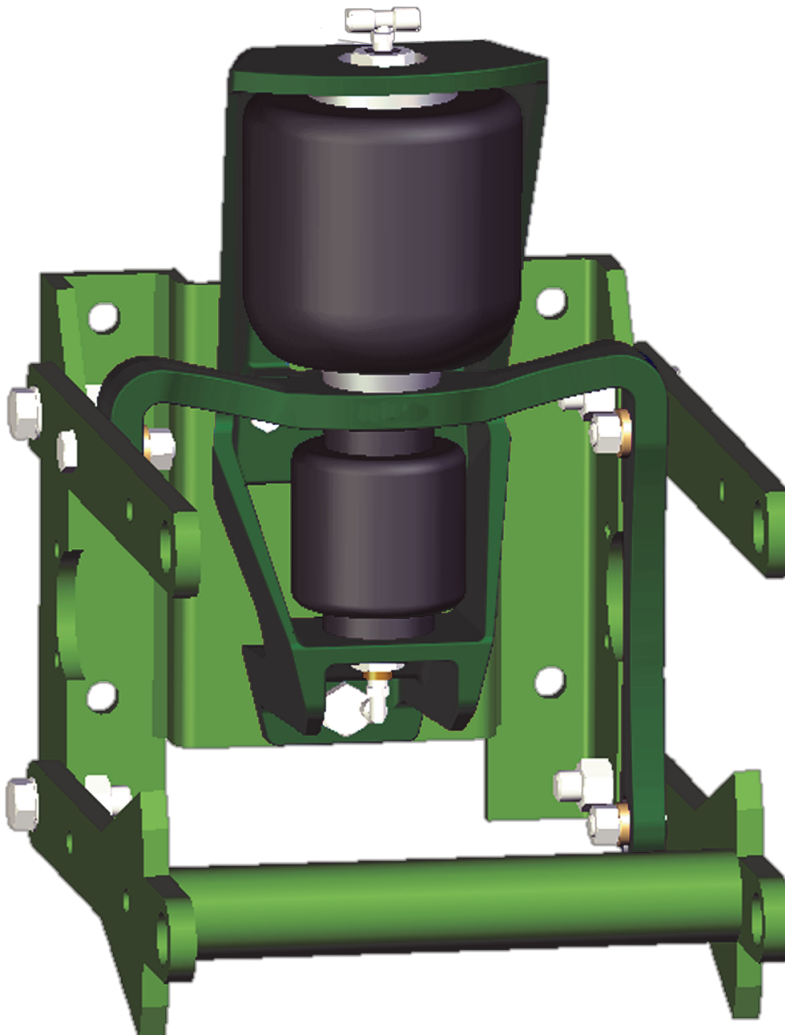
Planters equipped with Tru Count Air Clutch®

Also included in the hardware pack for each row is one - 17" zip tie-strap, and one - 1/4" X 1" Bolt. If you planter is equipped with Tru Count Air Clutches®, it may be necessary to either simply adjust the anti rotation bolt, or possibly replace it with a shorter one which is provided. Check to ensure that the clutch is oriented with the air cylinder vertical or leaning slightly forward. If this is not the case, thread the existing anti-rotation bolt in, but be careful not to tighten it too far. It may be threaded in such that the bolt protrudes from the clutch NO LESS THAN 1". Tightening more than this will cause the bolt to penetrate the clutch housing, possibly resulting in permanent damage. If the clutch still leans back, replace the existing anti-rotation bolt with the shorter bolt that is provided. With this bolt, do not thread it in more than 5/8". Don't forget to re-install the locking nut. (Refer to your Tru Count installation instruction manual for complete instructions.)



This must be done to prevent the trucount clutch from interfering with the air spring base support and vice versa. The zip-tie included in the pack may be used to further secure the air clutch. Loop the tie-strap around the clutch and forward, so that the clutch is held firmly against the anti rotation bolt.

Completed Row Unit Conversion



726525
Regular or Long Parallel Arms
Pro Shaft or Chain Driven