

Manual JD Air Springs Control Kit Installation Instructions

This conversion kit is intended to provide a means of control for the OEM John Deere pneumatic springs on model year 2011+ planters *without* the GreenStar™ 3 display 2630. MY2011+ John Deere planters have the air compressor, tank, and control manifold installed on the planter, and rely on the GreenStar™ 3 display to automate compressor run time and meter air pressure from the tank to the springs electronically from the cab of the tractor. For installations in which the John Deere display is not installed, the components included in this kit are required to utilize the OEM John Deere components on the planter.

QTY	Part Number	Part Name	Description
1	725627	Controller	Manual JD Air Springs Control Control Box
1	725628	Harness Adapter	Manual JD Air Springs Control Adapter
2	755032	Gauge	
2	726171	Union	¼" PTC Union (coupler)
2	726711	Fitting	1/8" NPT Female to 1/4" PTC 90 Elbow
2	726296	PTC Tee	3/8" X 3/8" X 1/4"
6	63124	Cable Tie	6" Black

Install pneumatic fittings into rear of the Control Box.

Begin the installation by placing the two - 1/8" NPT Female to 1/4" PTC 90 Elbows into the rear of the Manual JD Air Springs Control Box (725627). These fittings have thread sealant applied from the factory, and should be ready to install. If the thread sealant is missing or the fittings must be removed and re-installed a second application of thread sealant should be made.

Continue the installation by placing the Control Box inside the cab of the tractor. There are no prescribed locations or methods for mounting the Control box within your tractor. Simply place the control box in a stable location that provides user accessibility within 5' of a power source.

Control Box (725627)



Elbow Fittings



Control Box (725627)

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Manual JD Air Springs Control Kit Installation Instructions (Continued)

Connect the 725627 Control Box to Power.

The power cable terminates in a 3-pin Amp Circuit Plug standard to older model John Deere tractors. A 15 amp fuse is installed in line to provide over-circuit protection.

Available adapters for access to power:

- 725254: Power Splitter
- 725270: JD Power Strip Adapter
- 725269: 3-Pin/Cigarette Power Adapter

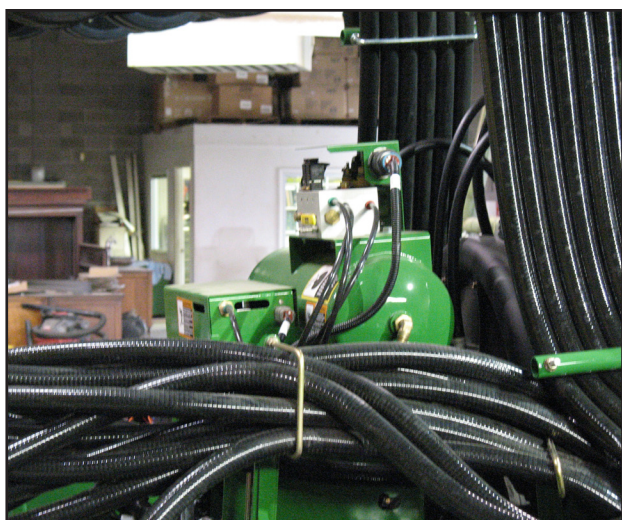
Connect the Control Box to the tank mounted OEM control block.

Route the 6-pin WeatherPack connector securely to the hitch point of the tractor. There is 24' of cabling that has been provided to accommodate most sizes of tractors with ease.

On the planter, from the WeatherPack connector at the hitch of the tractor, route extension harnesses as necessary to reach and connect to the OEM control block. The OEM control block is mounted directly on top of the tank. See the images for an example of the OEM components as installed.

Available 6-pin WeatherPack Extension Harnesses:

- 727133: 15' Extension
- 727162: 30' Extension



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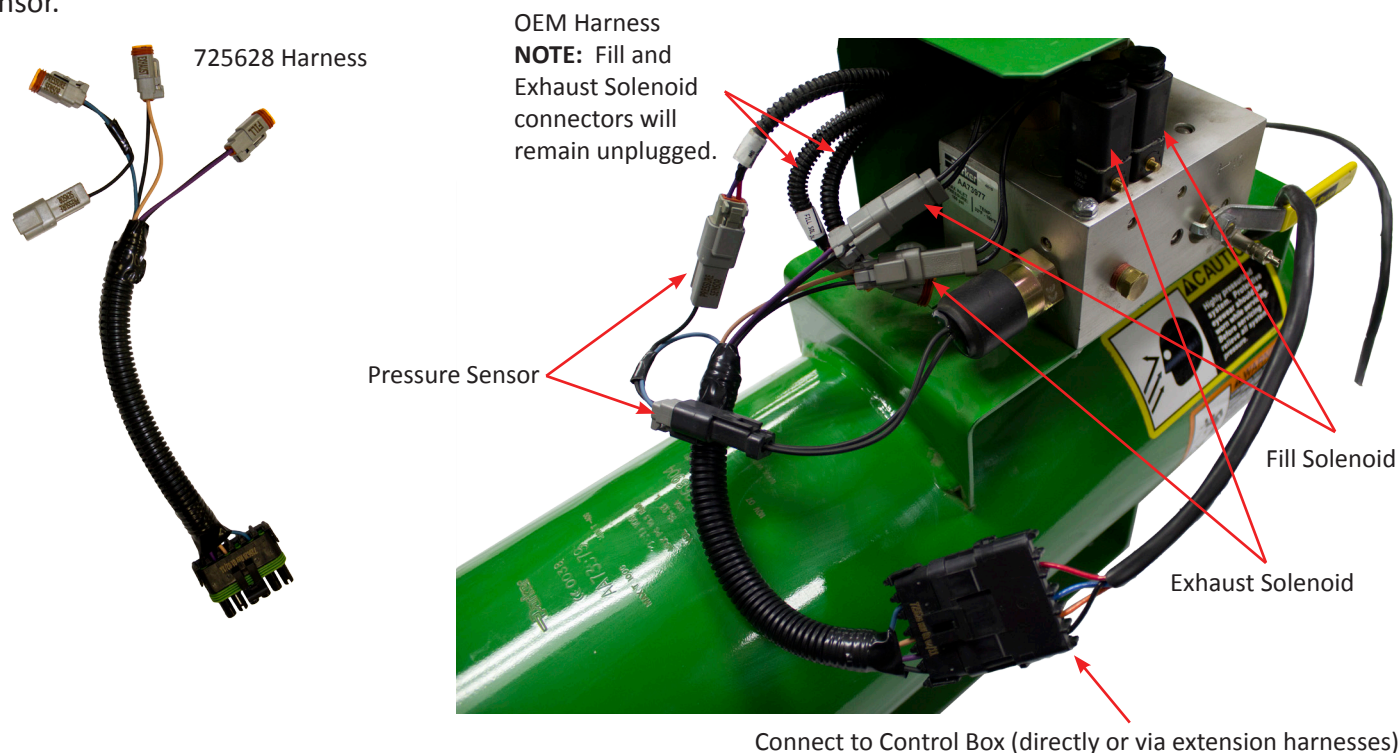
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Manual JD Air Springs Control Kit Installation Instructions (Continued)

Install the 725628 - Manual JD Air Springs Control Harness Adapter.

Each connector is labeled on both the OEM John Deere harness and the Precision Planting adapter. For the Fill and Exhaust Solenoids, simply unplug each connector one at a time and replace it with the corresponding Adapter connector. NOTE: The OEM harness Fill and Exhaust Solenoid connectors will remain unplugged. The remaining two connectors on the adapter harness will splice between the existing connection to the Pressure Sensor.



Connect the gauges to pressure.

Next, connect the analog gauges on the 725627 – Control Box to their respective locations. It is common practice to use different color tubing for these two circuits. This is not required and has no effect on the performance of the system, however it does aid in tracing the lines and troubleshooting the system. The tubing is NOT included in this kit. The length of tubing needed will be planter and installation dependent.

Available Tubing Kits available from Precision Planting:

Silver Tubing	
Part Number	Length
726314	50
726316	100
726317	150
726318	200
726319	250

Black Tubing	
Part Number	Length
726473	25
726321	50
726322	100
726323	150
726324	200

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TANK:

Route a ¼" line from the top gauge on the Control Box in the cab of the tractor to the hitch of the tractor. At the hitch of the tractor/planter install a ¼" union to add a quick disconnect point to the system. From the hitch point on the planter route the air line toward the air compressor. Access to the pressure within the tank is made by using a 3/8" X 3/8" X ¼" PTC Tee to splice into the 3/8" air line from the compressor to the tank.

AIRBAG:

Route a ¼" line from the top gauge on the Control Box in the cab of the tractor to the hitch of the tractor. At the hitch of the tractor/planter install a ¼" union to add a quick disconnect point to the system. From the hitch point on the planter route the air line to the rear of the planter. Access to the pressure within the air bags is made by using a 3/8" X 3/8" X ¼" PTC Tee to splice into the common 3/8" air line shared by the air bags. The exact location of this splice is not important, it is commonly placed near the center of the planter.

Operating the system using the Manual JD Air Springs Control Kit

To enable the system press flip the top switch to the 'ON' position. With the tractor key on, this will allow the compressor to run. The tractor key must be on to enable power to the compressor. The top switch on the Control Box allows the user to enable/disable the compressor with out turning the tractor on and off. The compressor will turn on and off automatically depending on tank pressure. The compressor should turn on once the tank pressure falls below 125psi and run until tank pressure once again reaches 150psi.

To modify the pressure in the air bags use the lower switch on the Control Box.

Tap the switch up to INCREASE the pressure in the bags.

Tap the switch down to DECREASE the pressure in the bags.



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