

SeederForce™

Rockshaft Down Force Control Install Five Frame Sections

Precision Planting®

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Five Frame Sections Seeder Requirements

Kits needed:

- 755110 — one per Rockshaft
- 735422 — one per Rockshaft
- 735421 — Cavity Plug (Size 12), Pressure Sensor, Gauge Tee

A minimum of 3 load sensors per section is required. If the number of active load cells in a Rockshaft section drops below 3, system performance will be degraded.

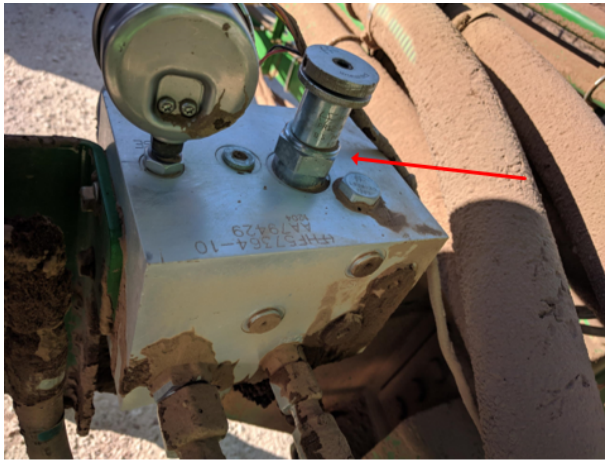


John Deere Manifold Bypass

Step 1:

Remove the John Deere Hydraulic valve controlling the seeding ranks. Once removed, replace with provided cavity plug.

Note: If there is one hydraulic block per seeding rank, then each block needs a cavity plug installed. Do not install on block controlling fertilizer rank.



Install Pressure Sensor

Step 1:

To install the pressure sensor, insert the provided gauge tee in (735421) kit between the hydraulic hose and the hydraulic fitting connected to the V2 port of the John Deere manifold. Once the gauge tee is installed, install the pressure sensor. Then, plug in the 4-pin pressure sensor connector from the PDM CAN harness to the pressure sensor.



Rockshaft Manifold Location

Step 1:

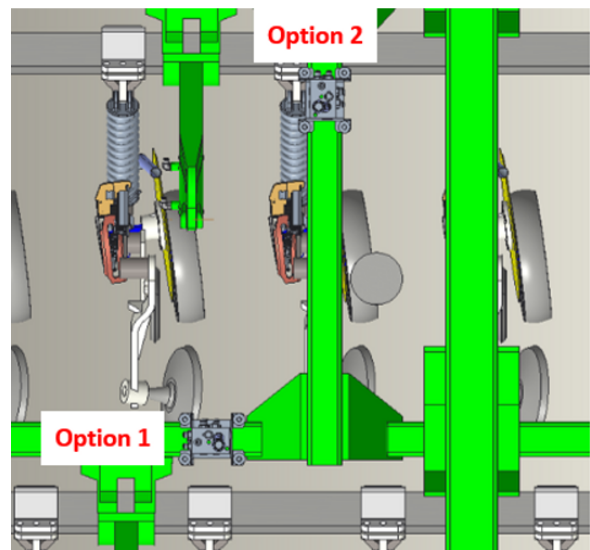
Mount the bracket to the manifold. The mounting bracket is capable of orienting the block in different directions to optimize hydraulic line routing



Step 2:

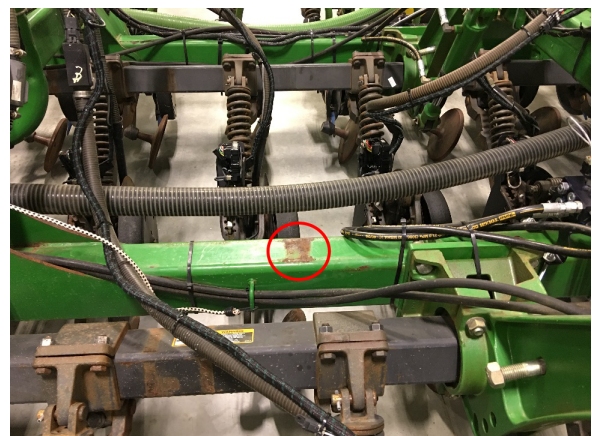
Locate the Manifold mounting location which must be near the Rockshaft cylinder it will be controlling to ensure the cylinder hoses will reach it. Two mounting location options are shown in the picture to the right (Option 1 or Option 2). The manifold has three faces that can be used for hoses going to the cylinders. The faces come with plugs installed, the plugs can be swapped out with adapters.

Note: RE1, RE2, RE3 ports are interchangeable.
HE1, HE2, HE3 are interchangeable.



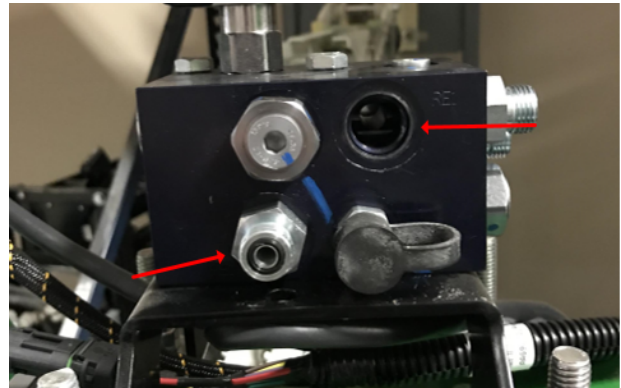
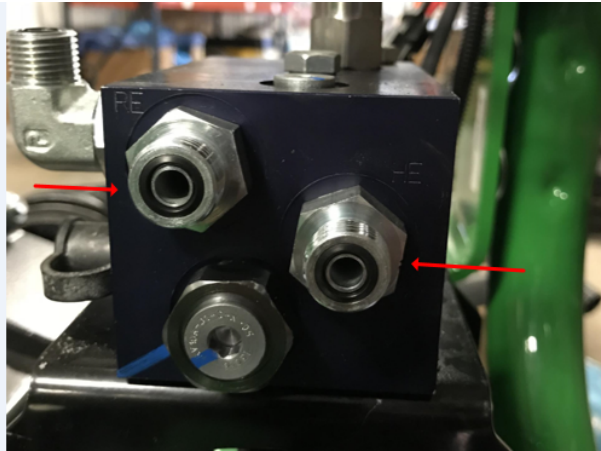
Step 3:

When mounting the manifold be sure to stay away from fold points. Normally you will notice these spots as they will be rusty or look worn



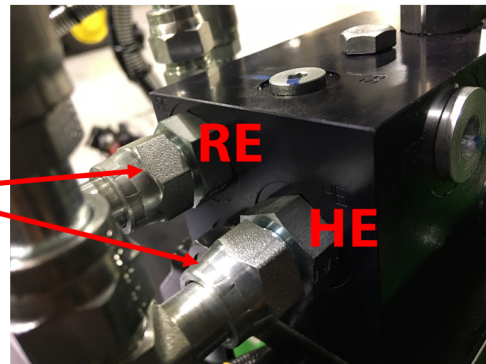
Step 4:

Replace the JIC adapters in the manifold with the provided ORFS adapters on each port shown in the pictures to the right.



Step 5:

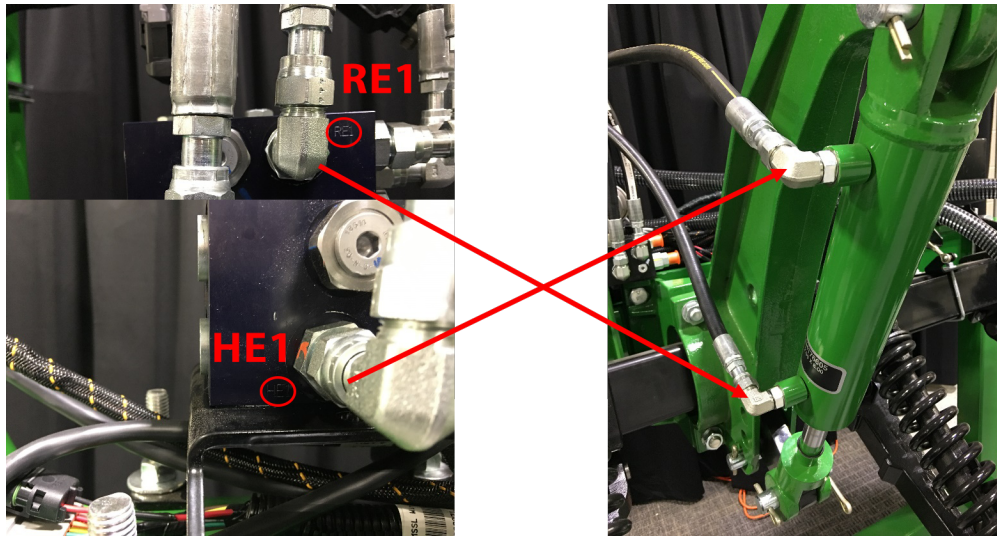
Take the John Deere lines running to the rockshaft cylinder and route them to our manifold. Connect the rod end of the cylinder to the **RE** port on our manifold. Connect the head head of the cylinder to the **HE** port on our manifold.



Step 6:

Next from our manifold route the two hydraulic lines to the rockshaft cylinder. **HE1** will run to the top port of the rockshaft cylinder. **RE1** will run to the bottom port of the rockshaft cylinder.

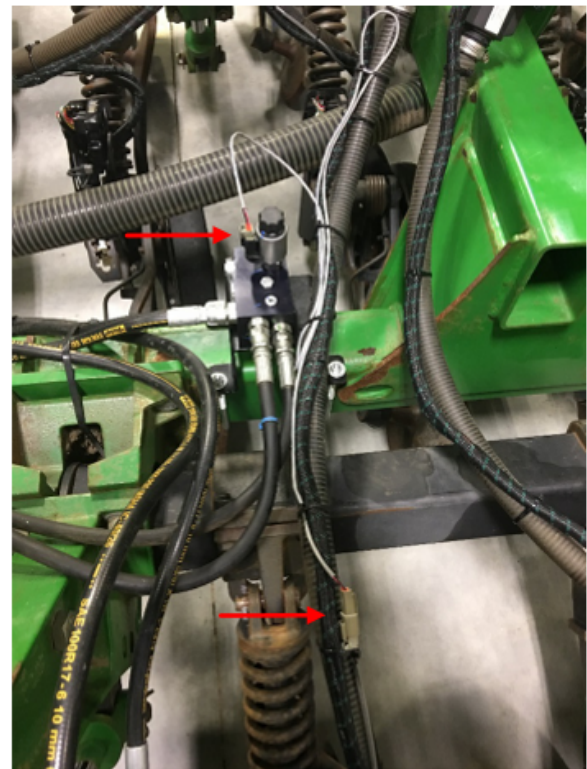
Note: If routing hoses from **HE1** is not optimal, **HE2** and **HE3** on the manifold can be used. Swap the fittings from **HE1** to either **HE2** or **HE3**. Repeat for **RE1** if necessary.



Step 7:

Once the rockshaft control manifold is installed, the 2-pin solenoid extension harness provided will need to be installed. Choose any row with an SRM installed on the rockshaft that is being controlled by this manifold, and route the harness from the row unit harness up to the rockshaft manifold as shown. Repeat this step for each rockshaft section and manifold.

Note: Secure all harnesses and hydraulic hoses using zip ties.



Rockshaft Down Force Hydraulic Layout

