

SeederForce™

John Deere 1560 and 1590 Box Drill RockShaft Control Installation Manual



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John Deere Manifold Bypass

Step 1:

Remove the John Deere Hydraulic valve controlling the seeding ranks. (shown in picture)



Step 2:

Install the cavity plug shown in the seeding manifold.



Pressure Sensor Installation

Step 1:

To install the pressure sensor, insert the provided gauge tee in (735420) 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 and Installation

Step 1:

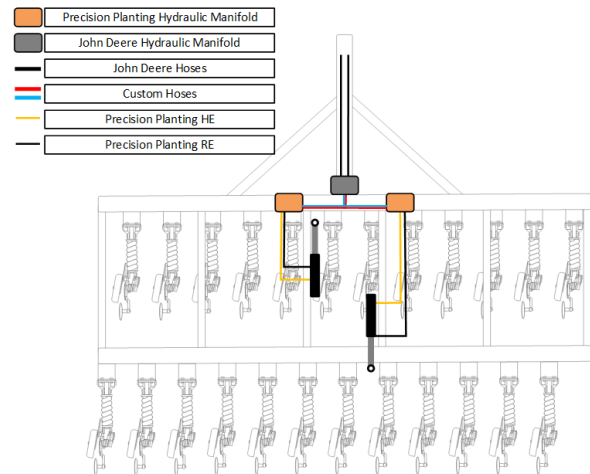
Mount the bracket to the manifold. The mounting bracket is capable of orienting the block in different directions to optimize hydraulic line routing.



Step 2:

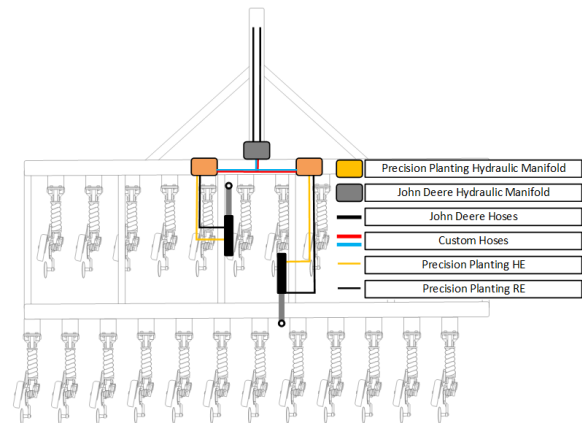
Locate the Manifold mounting location which must be near the Rockshaft cylinder it will be controlling to ensure the cylinder hoses will reach it. Two mounting location options are shown in the picture to the right (Option 1 or Option 2). The manifold has three faces that can be used for hoses going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



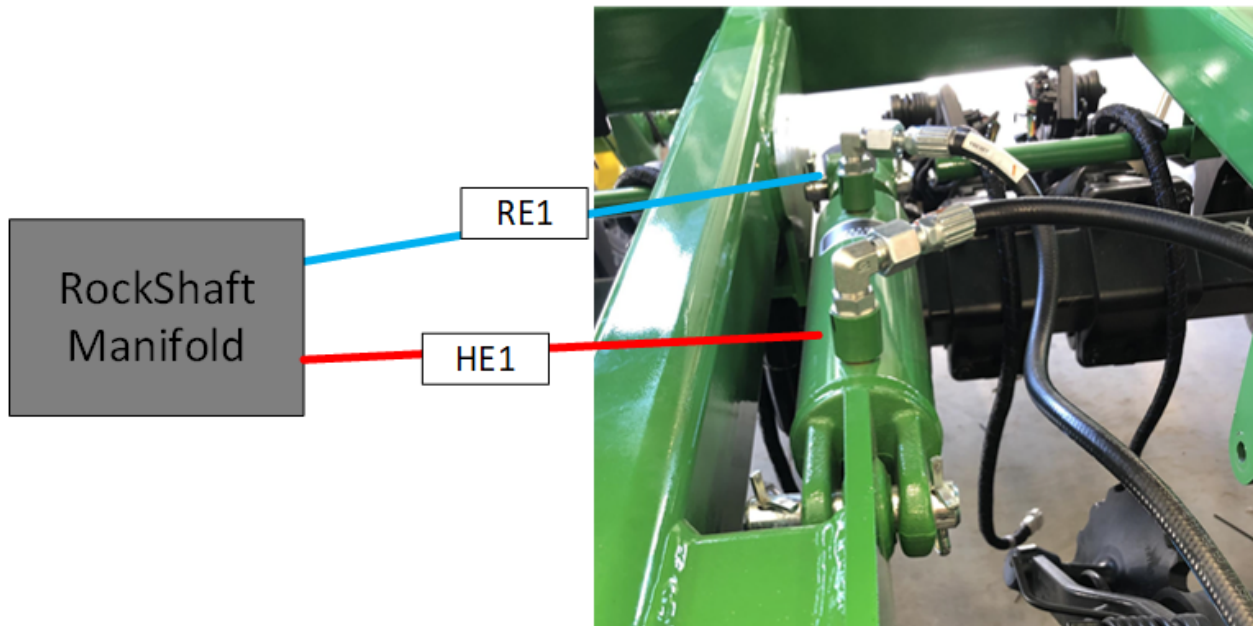
Step 3:

Install two hydraulic tees in the outlet side of the John Deere Hydraulic Manifold and run custom length hydraulic hoses to each RockShaft Manifold. Custom hoses will need to be made to connect the John Deere hydraulic Manifold to the Rockshaft manifolds.

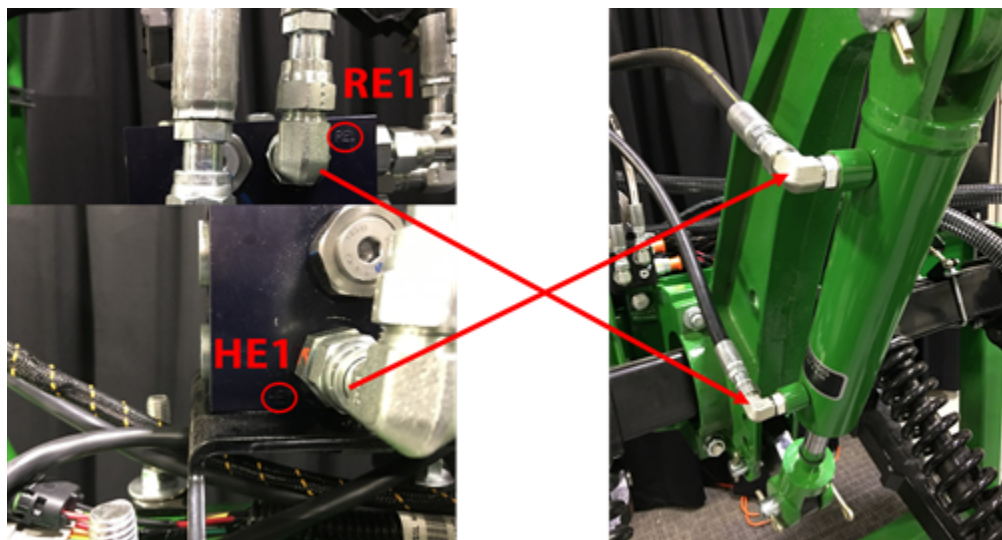


Step 4:

Using the hydraulic hoses from the JIC Fitting Rockshaft Manifold Hose Kit, connect one end of the hose from the cylinder to the RE port on our manifold. Using the second hydraulic hose from the kit, connect the head of the cylinder to the HE port on our manifold. See image below for Details



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 if necessary for the RE1 port.



Step 5:

Once the rockshaft control manifold is installed, the 2-pin solenoid extension harness provided will be routed and connected to a row harness. Choose any row harness whose SRM is 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.

