

KOYKER MANUFACTURING LENNOX, SD

2 SPOOL PLUMBING KIT #699749

JOHN DEERE 7200R – 7210R – 7215R – 7230R - 7235R – 7250R - 7260R –
7270R - 7280R – 7290R – 7310R

INSTALLATION INSTRUCTIONS:

1. Mount kit should be installed before proceeding to ensure that there is no interference.
2. Remove the plastic cover on the back of tractor under cab window.
3. Locate the small vent with plastic cover as seen in **Fig. 1-1**. Cut the small plastic divider in the vent to make the hole larger. This is where the joystick cables will come out of the cab.
4. In the cab, install the joystick bracket (Part #4) to the RH front post of cab with two 10mm – 1.5P x 30mm HHC bolts, flat washers and lock washers (Part #24, 28 & 29).
5. Attach joystick bracket (Part #3) to bracket (Part #4) with two 3/8" x 1 1/4" HHC capscrews, flat washers, lock washers and nuts (Part #23, 28, 29 & 32). **See in Fig. 1-2**.
6. Attach the joystick cable control kit (Part #5) to the joystick bracket with two 5/16" x 3 1/2" HH cap screws, flat washers and locking nuts (Part #25, 26 & 31). **Note:** The locking tab on the joystick base must face to the rear of the tractor. If joystick base needs a 1/4 turn, remove the two metal sleeves for the mounting bolts from joystick base and reinsert them at a 1/4 turn. **Note:** Attach all fasteners loosely to allow for desired adjustment later. The cables will lie on top of the floor mat and go under the rubber storage bin at the rear of the cab.
7. At this point it is easier to assemble part of the cable connector kits (Part #7) onto the cables, after they have come thru the back of the cab. 1st thread the large nut all the way past the threads on the cable. Then the small O-ring up past the threads also, slip the two hole lock ring over the threaded connector and thread it up past the threads. Roll the large O-ring onto the threaded connector. This will be ready for final installation later.
8. Install seven adapters (Part #10 & 11) into the pressure, return, load sense and all the working ports on the top of the valve (Part #1).

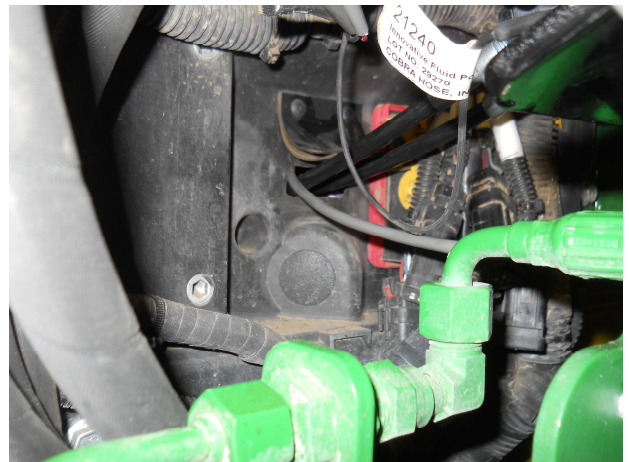
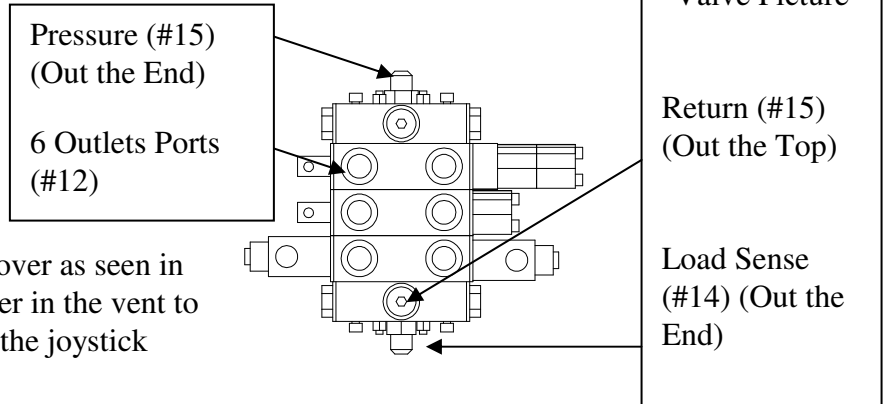


Fig 1-1



Fig 1-2

9. Install the valve bracket (Part #2) to the rear of the tractor above the 3 point hitch housing. Secure with three 3/8" x 1 1/4" HHC bolts, lock washers and nuts (Part #23, 29 & 32).

See in Fig. 1-3.

10. Install the valve (Part #1) onto the valve bracket (Part #2) with four 3/8" x 1" HH cap screws, lock washers and nuts (Part #21, 29 & 32).

11. When this has been done attach the cable ends to the valve body with the connector kits (Part #7) previously placed on the cables, from step 7. **Note: 1st make sure the joystick handle in cab is in the locked position.** (Center the joystick and push the joystick tab in (located on the base of joystick) to lock joystick). Now thread the pin connector onto the cable. Now, connect the cable to the valve spool. Install the solid push pin connector onto the valve spool through the aligned holes. Thread the cable connector down the cable threads until it contacts the valve. **Note: Only hand tighten the valve connector, if over tightened the joystick handle will not be centered.** Now roll large O-ring to the valve into the groove between cable connector and valve. Then slide the valve connector lock ring to the valve and bolt to valve with given Allen head bolts. Slide the small O-ring up to cable connector groove on the end and thread the large nut to cable connector and tighten. **Note: Make sure the cable connector does not move.**

12. Route the two (Pressure & Return) 36" hoses (Part #17) to the proper ports on hyd. valve with adapters (Part #13) and male coupler (Part #14). Route the load sense 26" hose (Part #18) to the proper port with adapter (Part #12). **See in Fig. 1-4.**

13. Now install the mid-mount multi coupler bracket (Part #6) with three 3/8" x 1 1/4" HH cap crews and flange nuts (Part #23 & 30).

14. Install four adapters (Part #16) to the bottom of the multi-coupler base (Part #8) and attach this multi-coupler base to the bracket (Part #6) with four 8MM x 1.25P x 25MM HHC capscrews and lock washers (Part #22 & 26). **See in Fig. 1-5.**

15. Run the 180" working hoses (Part #20) with 90 degree ends on valve end and straight flat face O-ring ends to the adapters (Part #16) on the multi-coupler base (Part #2).

16. Install the straight adapters (Part #15) and 72" hoses (Part #20) to the male end (top) of multi-coupler (Part #9). Attach the other end of the hoses to the steel oil lines on the loader frame. Then couple mid-mount coupler together. Refer to the top view of the working port diagram and the loader manual to



Fig 1-3



Fig 1-4

determine the function of the port. **TIGHTEN ALL THE CONNECTIONS SECURELY!** See in Fig. 1-5.

17. Secure hoses together with the 36” of hose wrap (Part #33) and nylon ties (Part #34) to make sure they do not interfere with any tractor function.
18. Finally start the tractor, actuate the loader to charge the hydraulic system with oil, check for leaks and add hydraulic fluid to the tractor as required using the recommended fluid for your tractor. Refer to the hydraulic section of the tractor owner’s manual for the specific details regarding hydraulic fluids and levels.
19. Place plastic rear cover in place so you can mark, and cut it. Replace plastic cover. See in Fig. 1-6.



Fig 1-5



Fig 1-6