

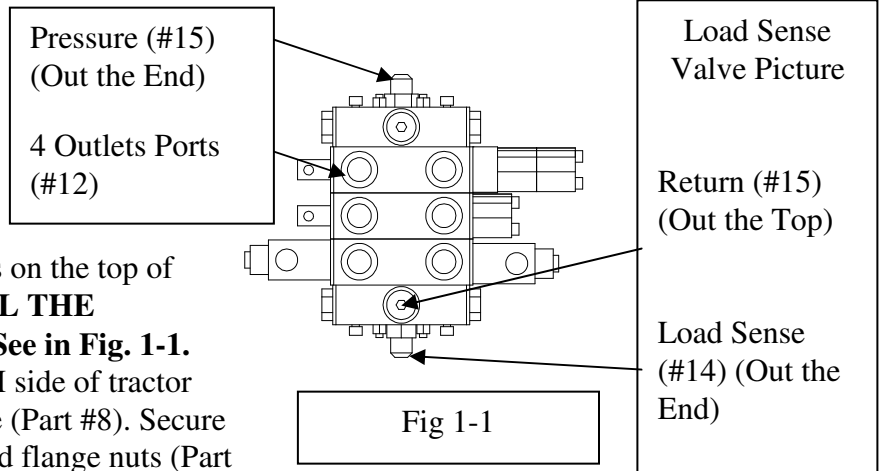
# KOYKER MANUFACTURING LENNOX, SD

2 SPOOL PLUMBING KIT #684762

**JOHN DEERE 7630-7720-7730-7820-7830-7920-7930**

## INSTALLATION INSTRUCTIONS:

1. Mount kit should be installed before proceeding to ensure that there is no interference.
2. Install nine adapters (Part #12, 14 & 15) into the pressure, return, load sense and all the working ports on the top of the valve (Part #1). **TIGHTEN ALL THE CONNECTIONS SECURELY! See in Fig. 1-1.**
3. Remove the plastic cover on the RH side of tractor under cab and install the valve plate (Part #8). Secure with two 3/8" x 1 1/4" HHC bolts and flange nuts (Part #23 & 25). **See in Fig. 1-2.**
4. Install the valve (Part #1) onto the valve plate (Part #8) with four 3/8" x 1 1/4" HHC cap screws and flange nuts (Part #23 & 25).
5. Next install the joystick bracket (Part #4) to the RH front post of cab with two 10mm – 1.5P x 30 HHC capscrews, 3/8" flat washers and 7/16" lock washers (Part #28, 27 & 26).
6. Attach the joystick cable control kit (Part #6) to the joystick bracket with two 5/16" x 3 1/2" HH cap screws, flat washers and locking nuts (Part #30, 29 & 31) **Note:** The locking tab on the joystick base should face to the rear of the tractor. If joystick 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.
7. There are plastic plugs in the cab floor to route the cable ends down through the cab floor just ahead of the RH side console. Adjust the joystick to acquire the most desirable position. **See in Fig 1-3 & 1-4.**
8. When this has been done attach the cable ends to the valve body with the connector kits (Part #7). **Note: Make sure the joystick handle is in the locked position.** (Center the joystick and push the joystick tab in (located on the base of joystick) to lock joystick). First screw the large nut onto the cable past the threads, then put the small O-ring on the cable past the threads. Slide large O-ring and the lock ring on the threaded connector and install on the cable past the threads. Now



Valve  
Bracket  
(#8)

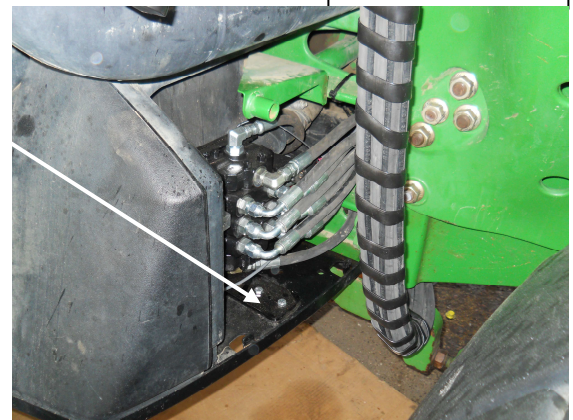


Fig 1-2



Fig 1-3

thread the small nut and the pin connector onto the cable and tighten. Now push pin connector onto the valve push rod and slip the pin through the holes. Thread the cable connector to the valve by hand. **Note: Only hand tighten the valve connector, if over tightened the joystick handle will not be centered.** Now push 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. See in Fig. 1-5.**



Fig 1-4

9. Attach hydraulic spacer block kit (Part #9) on left hand side of remote stack using existing studs and nuts, use the new provided O-ring and the dime disk with the block to tractor. **See in Fig. 1-6.**

10. Route the two (Pressure & Return) 150" hoses (Part #17) to the proper ports on hyd. block with adapters (Part #10). Route the (load sense) 120" hose (Part #18) to the proper port with adapter (Part #16). **See in Fig. 1-6.**

11. Now install the mid-mount coupler plate (Part #5) with three 3/8" x 1 1/4" HH cap crews and flange nuts (Part #23 & 25) and attach the multi coupler to this bracket with four 8MM x 1.25P x 25MM HHC capscrews and 3/8" lock washers (Part #24 & 32). **See in Fig. 1-7.**

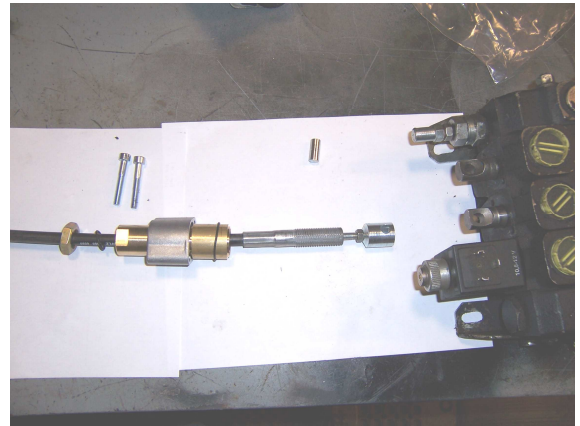


Fig 1-5

12. Install 45 degree adapters (Part #13) to the base end of the multi-coupler. Run the 72" hoses with 90 degree ends (Part #19) from valve to multi- faster coupler (Part #2).

13. Install the straight adapters (Part #11) and 72" hoses (Part #20) to the male end of multi coupler (Part #3). 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 determine the function of the port. **TIGHTEN ALL THE CONNECTIONS SECURELY! See in Fig. 1-7.**

14. Secure hoses together with the 36" of hose wrap and nylon ties to make sure they do not interfere with any tractor function.

15. 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.

16. Replace plastic cover.

Pressure  
Load Sense  
Plug  
Return

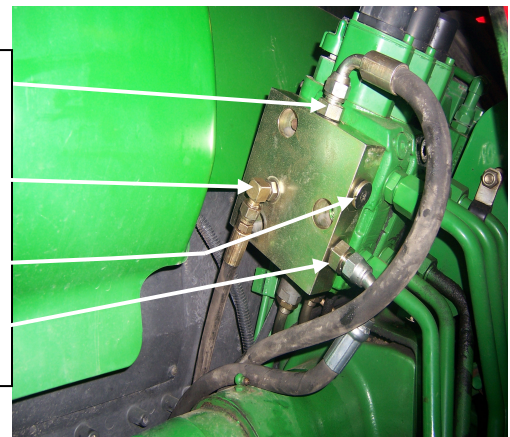


Fig 1-6

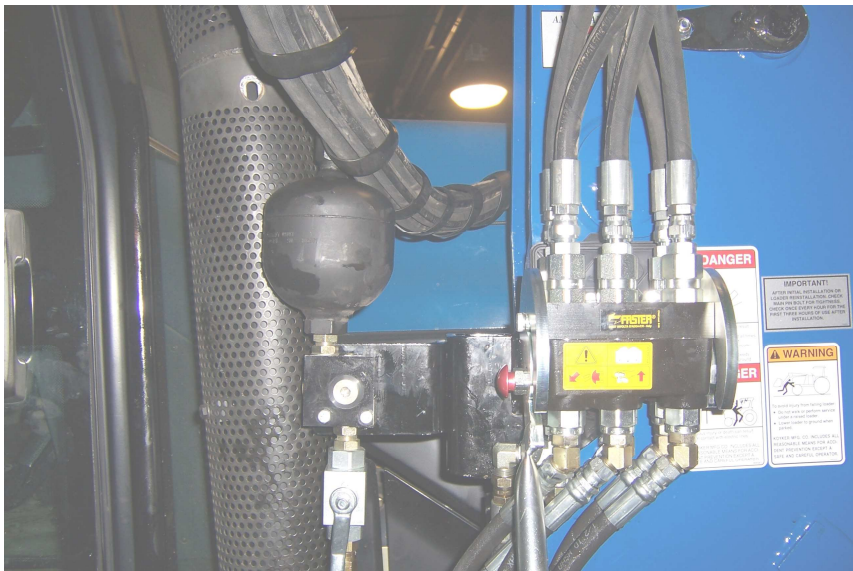


Fig 1-7