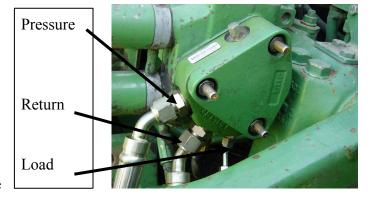


JOHN DEERE 6110-6120-6200-6210-6215-6220-6300 6310-6320-6400-6405-6410-6415-6420

INSTALLATION INSTRUCTIONS:

- 1. Mount kit should be installed before proceeding to ensure that there is no interference.
- 2. First, attach spacer block kit (Part#7) using studs (#676901 or #676902) (Part# 30 & 31) to tractor. **See in Fig. 1-1.** If your tractor has two remotes valves, you will use the short studs (Part# 676901) and for three remotes use the long studs (Part# 676902). Make sure that you add the "dime" disk (Part# 16) to the left hand side of the block.



Once that has been done attach the valve plate (Part# 4) onto the RH side of the tractor behind the rear mount. Secure with two 14mm – 2.0 P x 45mm HH cap screws and lock washers (Part# 35 & 43) or for some tractors secure with two 16mm – 2.0 P x 50mm HH cap screws and lock

washers (Part #36 & 44). **See in Fig. 1-2.**

4. Install seven adapters (Part #17, 20, and 22) into the pressure, return, load sense and all the working ports on the top of the valve. **TIGHTEN ALL THE CONNECTIONS SECURELY!**

- 5. Install the valve (Part 1) onto the valve plate (Part #4) with four 3/8" x 1 1/4" HH cap screws, and flange nuts (Part #29 & 47).
- 6. Next the joystick handle bracket (Part# 3) must be attached to the joystick cable control kit (Part# 2) with two 5/16" x 3 1/2" HH cap screws, lockwashers, hexnuts and one flatwasher (Part #33, 38, 41 & 45), if joystick needs a ¼ turn remove two sleeves for the bolts from joystick and reinsert them at a ¼ turn. Then attach this assembly to the handle bracket adapter plate (Part #8) with two 3/8" x 1 1/4" HH cap screws, lockwashers, one flat washer and two nuts (Part #29, 39, 40 & 49). **Note**: Attach all fasteners loosely to allow for desired adjustment later.
- 7. Then custom fit the handle bracket adapter plate (Part #8) onto the front right corner post just ahead of the side counsel in the cab of the tractor. Attach with two 10MM 1.50 x 25MM HH cap screws and lock washers (Part #34 & 38). You need to cut a hole thru the cab floor to route the

Fig 1-1



Fig 1-2



Fig 1-3

- cable ends down through the hole in the cab floor just ahead of the side counsel. Adjust the according brackets to acquire the most desirable position for the joystick handle. See in Fig. 1-3 and Fig 1-4.
- 8. When this has been done attach the cable ends to the valve body with the connector kits (Part# 9). **Note: Make sure the joystick is in the locked position.**(Center the joystick and push the joystick knob in (located on the side of joystick) to lock joystick.) First screw the nut on to the cable then put the small o-ring on the cable past the threads. Slide large o-ring on the connector, and thread the cable connector and slide the



valve controller on the cable. Now thread the small nut and the pin connector onto the cable and tighten. Make sure the end of the cable does not hit the valve push rod. Now push pin connector onto the valve

push rod and slide 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 will not be centered. Now push large oring to the valve into the groove of cable connector. Then slide the valve connector to the valve and bolt together with given Allen head bolts. Slide the small oring 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 turn. See in Fig. 1-5.

Fig 1-4



Fig 1-5

- 9. Route the 84" hoses (Part# 26 & 27) underneath the tractor cab and attach to the proper ports on the manifold block already installed on the back of the tractor. **See Figure 1-1.** See instruction sheet for proper connections.
- 10. Next, put the bulkhead adapters with the female half of coupler (Part #11) on the mid-mount couple plate (Part #6).Note: At this point, install the male half of the colored plugs (Part #10) along with the couplers.
- 11. Now attach the mid-mount couple plate (Part #6) with two 1/2" x 1 1/4" HH cap screws, and flange nuts (Part #37 & 47) to the RH mount. **See in Fig. 1-6.**
- 12. Run the 36" hydraulic hoses (Part #25) from valve to midmount coupler and after that you install the guard (Part #5) in place for valve with the two existing 12MM 1.75 x 45MM HH cap screws and lock washers.
- 13. Attach the male half of the quick coupler (Part#11) onto the 60" hoses (Part#26). **Note:** At this point, install the female half of the colored plugs (Part #10). Attach the other end of the hoses to the steel oil lines on the loader frame. Then couple the hoses together. Refer to the top view of the working port diagram and the loader manual to determine



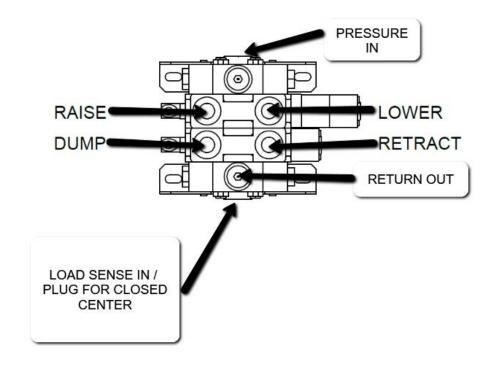
Fig 1-6

- the function of the port.
- 14. Secure loader hoses with four plastic oil line clamps (Part# 12) stacked on one another and held together with one 3/8" x 5" HH capscrew, flat washers and a lock nut (Part # 32, 39 and 46)
- 15. Secure remaining hoses together with the 36" of hose wrap and nylon ties to make sure they do not interfere with any tractor function.
- 16. Finally start the tractor, actuate the loader to charge the hydraulic system with oil 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 fluid levels.

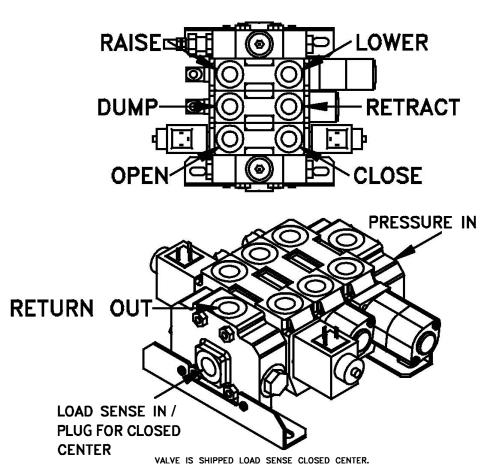




2 SPOOL LOAD SENSING/CLOSED CENTER VALVE PORTS LABELED



3 SPOOL LOAD SENSING/CLOSED CENTER VALVE PORTS LABELED



VIDEOS:

CONNECTING CABLES TO VALVE:

https://youtu.be/AOKy1CnuU4o



CONNECTING CABLES TO JOYSTICK:

https://youtu.be/vbcYCtpPtaw



COMPLETE JOYSTICK KIT INSTALLED ON

JD 6400:

https://youtu.be/XRi56twf6cA

