

INSTALL FITTINGS 6400-8-12

3 SPOOL PLUMBING KIT #681427

Case 1896-2090-2094-2096-2290-2294

INSTALLATION INSTRUCTIONS:

- 1. The mount kit should be installed before proceeding to ensure that there is no interference.
- 2. Attach the new end block (Part #15) with two plugs (Part #24) to the valve on the left side under the cab. Use the existing nuts and lock washers. See in Fig. 1-1.
- Install nine adapters (Part #11, 12 & 13) into the pressure, return, load sense and all the working ports on the top of the valve. Note: Attach all fasteners loosely to allow for desired adjustment later.
- 4. Install the valve (Part #1) onto the valve plate (Part #4) with four 3/8" x 1 1/4" HH cap screws, lock washers and hex nuts (Part #26, 33 & 35).
- 5. Attach the valve plate (Part #4) onto the RH side behind battery. Secure with two 3/8" x 1" HH cap screws, lock washers and nuts (Part #26 & 31). See in Fig. 1-2.
- 6. Drill two holes in the right fender to install the handle bracket (Part #5 or 6). Using two 3/8" x 2" HH cap screws, flatwashers, lock washers, and nuts (Part #28, 31, 33 & 35) attach the bracket that best fit the tractor.
- 7. Install the joystick (Part #2) with two 5/16" x 3 1/2" HH cap screws, lock washers, hex nuts and flat washers (Part #25, 30, 32 & 34), if joystick needs a ¼ turn remove two sleeves for the bolts from joystick and reinsert them at a ¼ turn. Note: Attach all fasteners loosely to allow for desired adjustment later.
- 8. Attach the cable ends to the valve body with the connector kits (Part #3). 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

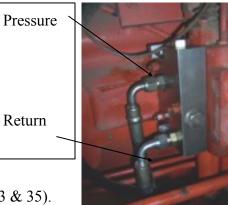


Fig 1-1



Fig 1-2



Fig 1-3

valve connecter, if over tighten the joystick will not be right. Now push large o-ring 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 o-ring 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. 1-3 and 1-4.**

- 9. Next attach the wiring harness (Part #22) onto the valve; the electrical should be under the right side of cab. You will have to disconnect the electrical ends of the wiring harness, and then cut the ends off of the tractor harness. Now connect the wire the ends and connect to the valve. Note: The wire from tractor has power and ground.
- 10. Route the 48" and 60" hoses (Part #13 & 14)
 11. underneath the tractor cab and attach to the proper ports on the manifold block already installed on the back of the tractor. See instruction sheet for proper connections. See in Fig. 1-1 and Fig 1-2.
- 11. Install the three adapters (Part #9) into the shuttle tee (Part #14). Disconnect the load sense line for the tractor valve. Install the shuttle to load sense tube. Run the 16" hose (Part #16) from shuttle tee to tractor valve. See in Fig. 1-5.
- 12. Route the 48" hose (Part #17) from valve to shuttle tee.
- 13. Install the mid coupler bracket (Part #22) using two 5/8" x 2" HH cap screws (Part #34) with the existing lock washers and hex nuts.
- 14. Next put the bulk head adapters and the male halve (Part #7) on the mid-mount couple plate (Part #21). Note: At this point install the female halve of the colored plugs (Part #8) along with the couplers.
- 15. Now install the mid-mount couple plate (Part #2) with two 3/8" x 1 1/4" HH cap screws, lock washers and hex nuts (Part #27, 33 & 35). See in Fig. 1-6.
- 16. Run hydraulic 48" hoses (Part #18) from valve to mid-mount coupler.
- 17. After this has been done attach the female halve of the quick coupler (Part #7) onto the 72" hoses (Part #20). Note: At this point install the male half of the colored plugs (Part #8). Attach the other end of the hoses to the steel oil lines on the loader frame. Then attach to the midmount coupler. 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!

- 18. Secure hoses together with the 36" of hose wrap and nylon ties.
- 19. Start the tractor. Actuate the loader to charge the hydraulic system. Add hydraulic fluid as required using the recommended fluid.



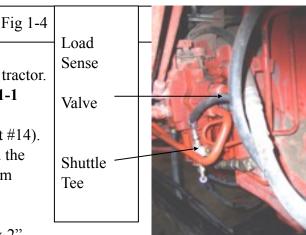
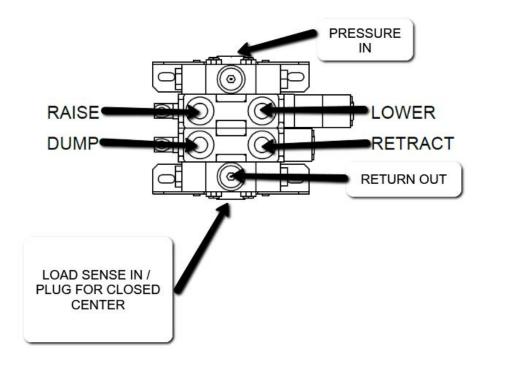


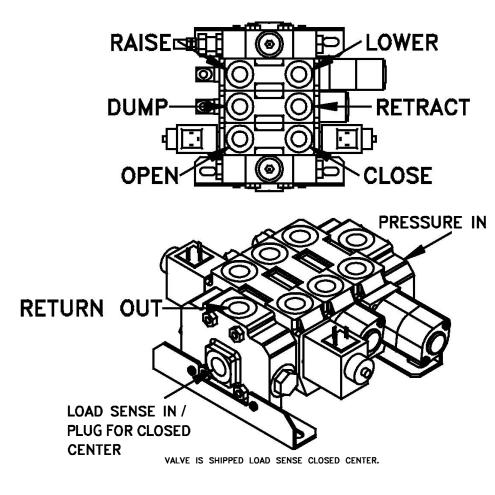
Fig 1-5



2 SPOOL LOAD SENSING/CLOSED CENTER VALVE PORTS LABELED



3 SPOOL LOAD SENSING/CLOSEDCENTER VALVE PORTS LABELED



VIDEOS:

CONNECTING CABLES TO VALVE: https://youtu.be/AOKy1CnuU4o



CONNECTING CABLES TO JOYSTICK: https://youtu.be/vbcYCtpPtaw

