

3 SPOOL PLUMBING KIT #677841 CASE-IH 7110-7120-7130-7140-7150

INSTALLATION INSTRUCTIONS:

- 1. Mount kit should be installed before proceeding to ensure that there is no interference.
- First remove old valve block from tractor and then attach valve block kit (Part #2) using existing nuts and o-rings to tractor. See in Fig. 1-1. Also, see instruction Sheet (677841) attached with that kit.
- Once that has been done attach the valve plate (Part #8) onto the RH side of the belly bracket. Secure with two 5/8" x 2 ¼" HH cap screws, lock washers and nuts (Part #20, 25 & 28). See in Fig. 1-2.
- 4. Install nine adapters (Part #11 and 12) into the pressure, return, load sense and all the working ports on the top of the valve. **TIGHTEN ALL THE CONNECTIONS SECURELY!**
- Install the valve (Part #1) onto the valve plate with four 3/8" x 1" HH cap screws, lock washers and hex nuts (Part #17, 24 & 27).
- 6. Next the joystick handle bracket (Part #6) must be attached to the joystick cable control kit (Part #4) with two 5/16" x 3 ¹/₂" HH cap screws, lock washers, hex nuts and flat washer (Part #16, 21, 21, 23 & 28). The lock tab on the joystick base should face to the rear, if joystick needs a ¹/₄ turn remove two sleeves for the bolts from joystick and reinsert them at a ¹/₄ turn.
- 7. Then custom fit the handle bracket adapter plate (Part #7) onto the front right corner just ahead of the side counsel (approximately 2") in the cab of the tractor. Attach with three 3/8" x $1\frac{1}{2}$ "HH cap screws, lock washers and nuts

(Part #19, 24 & 27). You need to drill three holes thru the cab floor to mount stand in the cab floor just ahead of the side counsel. Then attach this assembly to the handle bracket adapter plate (Part #6) with two 3/8" x 1 1/4" HH cap screws, lock washers, and one flat washer (Part #26, 31, 33 & 37). Note: Attach all fasteners loosely to allow for desired adjustment later. Adjust the according brackets to acquire the most desirable position for the joystick handle. See in Fig. 1-3.

8. When this has been done attach the cable ends to the valve body with the connector kits (Part #4). **Note: Make sure the joystick is in the locked position.** (Center the joystick and push in the tab (located on the back of joystick) to lock joystick.) First screw the nut on to the cable then put the

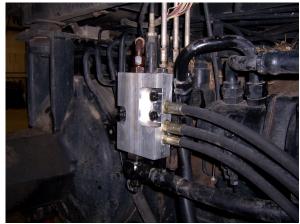


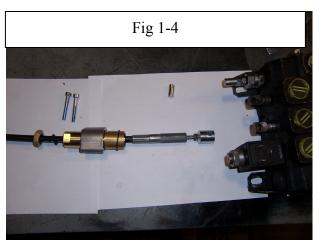
Fig 1-1



Fig 1-2



small o-ring on the cable past the threads. Slide large oring 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 connecter, 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 o-



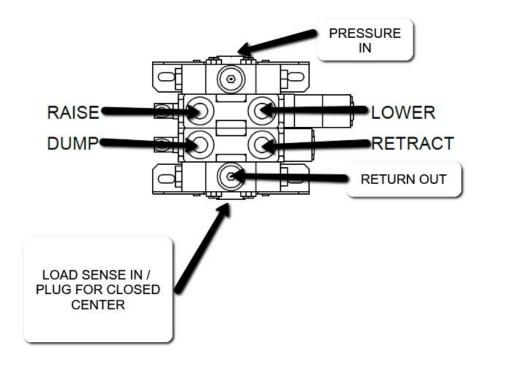
ring to cable connector groove on the end and thread the large nut to cable connector and tighten. Note: Make sure the cable connector does not move. See in Fig. 1-4.

- 9. Next attach the wiring harness (Part #5) onto the valve, and route up to the joystick handle. Attach the
- ends together. You will have to supply electrical power to the wiring harness via the tractor. **Note:** Make sure the power source for the valve is connected to the key switch so the electric 3rd function **can not** operate with key switch in the "off" position.
- 10. Hook up the existing hoses and fitting to new block.
- 11. Route the 60" hoses (Part #13 & 14) 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.
- 12. Next put the female half of coupler (Part #10) on the valve (Part #1). Note: At this point install the male halves (Part #10) of the colored plugs (Part #9) on the couplers.
- 13. After this has been done attach the male half of the quick coupler (Part #10) onto the 96" hoses (Part #15). Note: At this point install the female halves of the colored plugs (Part #9) onto the hoses. Attach the other end of the hoses to the steel oil lines on the loader frame. Refer to the top view of the working port diagram and the loader manual to determine the function of the port.
- 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 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.

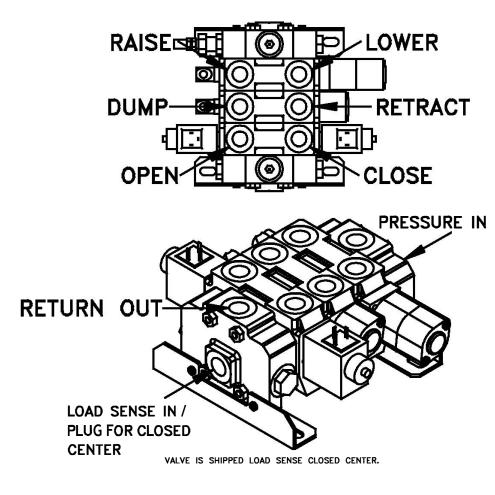




2 SPOOL LOAD SENSING/CLOSED CENTER VALVE PORTS LABELED



3 SPOOL LOAD SENSING/CLOSEDCENTER VALVE PORTS LABELED



VIDEOS:

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



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

