

KOYKER MANUFACTURING LENNOX, SD

2 SPOOL PLUMBING KIT #672867

FARMALL 886-986-1086-1486-1586-186 HYDRO

INSTALLATION INSTRUCTIONS:

1. Mount kit should be installed before proceeding to ensure that there is no interference.
2. First remove the two plugs from the valve and replace with power beyond plugs (Part #2).
3. Then start with installing nine adapters (Part #10) into all the working ports on the topside of the valve, pressure in, return out and power beyond port(s). **TIGHTEN ALL THE CONNECTIONS SECURELY! See in Fig. 1-1.** Also, see instruction Sheet (672867) attached with that kit.
4. Once that has been done attach the valve (Part 1) onto the valve plate (Part #6) with four 3/8" x 1 1/4" HH cap screws, lockwashers and hexnuts (Part #22, 26 & 29). Then attach the valve plate assembly to the RH side of the rear housing underneath the cab with two 3/4" x 1 3/4" bolts, lockwashers and spacers (Part #23 27& 30).
5. Then custom fit the handle bracket adapter plate (Part #7) onto the front right corner of the side cab with u-bolts (Part 21).
6. Attach custom fit the handle bracket adapter plate (Part #5) with four 3/8" x 1 1/4"HH cap screws, lock washers and nuts (Part #22, 26 & 29). **See in Fig. 1-2.**
7. Next the joystick handle bracket (Part #5) must be attached to the joystick cable control kit (Part #3) with two 5/16" x 3 1/2" HH cap screws, lock washers, hex nuts and flat washers (Part #20, 24, 24, 25 & 28), if joystick needs a 1/4 turn remove two sleeves for the bolts from joystick and reinsert them at a 1/4 turn. **TIGHTEN ALL THE CONNECTIONS SECURELY!**
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 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 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.**



Fig 1-1



Fig 1-2

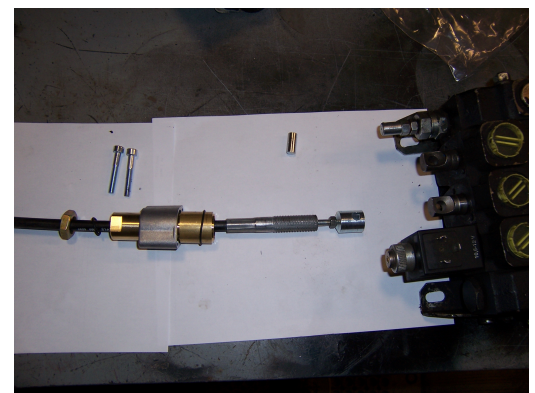


Fig 1-3

9. Now remove the existing elbow for return and install the new tee fitting with adapter (Parts #11 & 12) reinstall the hose from tractor to tee then route the 16" hose (Part #14) to the valve. **See in Fig. 1-4.**
10. Disconnect the existing hose from valve on tractor and install the pressure 18" hose (Part #15) route to Koyker's valve. Some tractors may vary on where this port is located on the tractor valve. See instruction sheet for proper connections. **See in Fig. 1-5.**

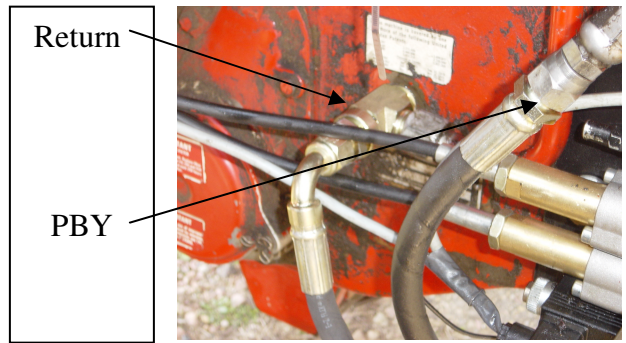


Fig 1-4

11. Connect the 18" hose PBY (Part #16) from the existing hose (from the Power Steering Pump) to Koyker valve. See instruction sheet

for proper connections. **See in Fig. 1-4.**

12. Install the mid-mount couple plate (Part #8) to mount with two 3/8" x 1 1/4" HH cap screws, lock washers and hex nuts (Part #22, 26 & 29).

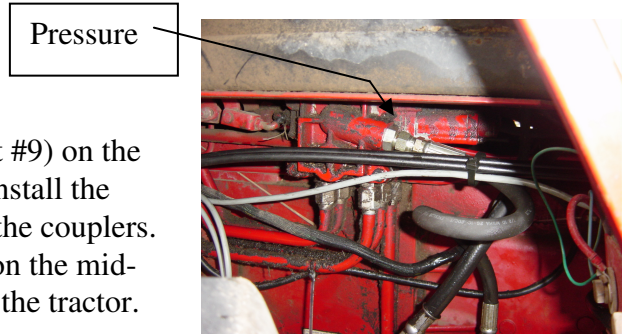


Fig 1-5

13. Next put the bulk head adapters and the male half (Part #9) on the mid-mount couple plate (Part #8). Note: At this point install the female half of the colored plugs (Part #13) along with the couplers.
14. Route the 24" hoses (Part #17) to the proper bulkheads on the mid-mount couplers already installed on the loader mount of the tractor.

See instruction sheet for proper connections. **See in Fig. 1-6.**

15. After this has been done attach the female half of the quick coupler (Part #9) onto the 72" hoses (Part #18). Note: At this point install the male half of the colored plugs (Part #13). 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.

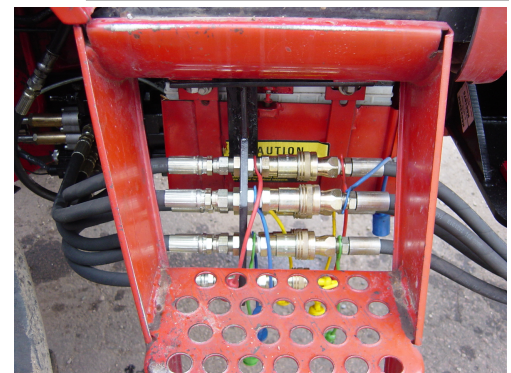


Fig 1-6

16. Secure hoses together with the 36" of hose wrap and nylon ties to make sure they do not interfere with any tractor function. **See in Fig. 1-7.**

17. 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.



Fig 1-7