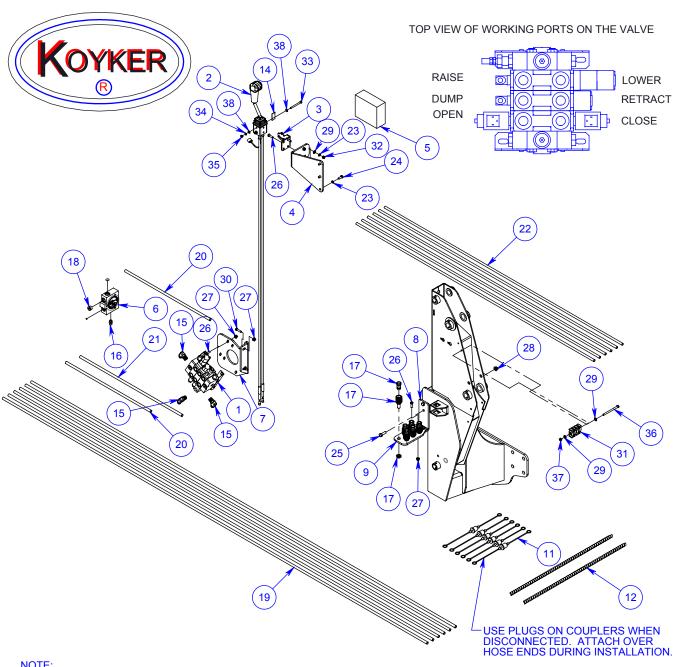
K683397

# 3 FUNCTION PLUMBING KIT FOR JOHN DEERE 6605-7200-7210-7400-7405-7410-7510-7600-7610-7700-7710-7800-7810



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	668963	3 SPOOL LOAD SENSING VALVE
2	1	683155	KIT-JOYSTICK BENT 78" 3 SP
3	1	684725	JOYSTICK HANDLE PLATE
4	1	672276	JOYSTICK HANDLE PLATE
5	1	683162	WIRING HARNESS
6	1	672274	JD 7000 SERIES HYDRAULIC BLOCK
7	1	677859	PLATE-VALVE BRACKET
8	1	689591	VALVE BRACKET
9	1	672858	COUPLER PLATE
10	2	669298	CABLE CONNECTOR KIT
11	1	673957	COLORED PLUG SET - 3SP
12	2	669686	36" HOSE WRAP
13	5	652393	14.25 NYLON CABLE TIE
14	1	663708	OPERATIONAL JOYSTICK DECAL
15	3	6809-10-8	FITTING - HYD ELB 90 8fJX-10ORM
16	1	6400-6-6	FITTING-HYD ADA 6MJX-6ORM
17	6	673740	QUICK COUPLER BULKHEAD SET
18	1	6408-10	PLUG: 100RM
19	6	678304	HYD HOSE .5-150 8FJX-8FJX90
20	2	659774	HYD HOSE .5-30 8MJX-8FJX90-10ORM
21	1	652806	HYD HOSE .5-36 8MJX-6FJX90-8ORM
22	6	676988	HYD HOSE .5-84 8ORM-8MJX
23	5	640153	WASHER - 3/8" SPRING LOCK
24	3	652378	SCREW - 10MM - 1.50 X 25 GR 8.8 HHC
25	2	640059	SCREW50-13 X 1.50 GR 5 HHC
26	9	640032	SCREW375-16 X 1.25 GR 5 HHC
27	9	682413	NUT375 X 16 FLANGE
28	2	683932	NUT50 X 13 FLANGE
29	5	640154	WASHER - 3/8" FLAT
30	2	640034	SCREW375-16 X 1.50 GR 5 HHC
31	4	672503	OIL LINE CLAMP TWIN .500
32	2	640132	NUT - 0375 - 16 GR 2 HEX
33	2	669618	SCREW3125-18 X 3.50 GR 5 HHC
34	2	640151	WASHER - 5/16" SPRING LOCK
35	2	652360	NUT313-18 GR 2 HEX
36	1	750412	SCREW375-16 X 5.00 GR 5 HHC
37	1	700560	NUT375-16 GR 2 CENTER LOCK
38	4	640152	WASHER - 5/16" FLAT

2. USE HOSE WRAP AND NYLON TIES TO SECURE HOSES TOGETHER.

8 6400-8-10 8MJIC X 10ORM

<sup>1.</sup> REFER TO WRITTEN INSTRUCTIONS ON ADDITIONAL INFORMATION TO INSTALL KIT.

#### 3 SPOOL PLUMBING KIT #683397

### JOHN DEERE 6505-7200-7210-7400-7400-7405 7410-7510-7600-7610-7700-7710-7800-7810

#### INSTALLATION INSTRUCTIONS:

- 1. Mount kit should be installed before proceeding to ensure that there is no interference.
- 2. First, attach hydraulic block kit (Part #4) on left hand side using existing studs and nuts, but use the new o-ring and the dime disk with the block to tractor. **See in Fig. 1-1.**
- 3. Once that has been done attach the valve plate (Part #5) onto the RH side of the tractor behind the rear cab. Secure with two 3/8" x 1 ½" HH cap screws, flat washers, lock washers and nuts (Part #23, 26, 28 & 31). See in Fig. 1-2.
- 4. Install nine adapters (Part #12 & 13) 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 with four 3/8" x 1 1/4" HH cap screws, lock washers and hex nuts (Part #22, 28 & 31).
- 6. Next the joystick handle bracket (Part #6) must be attached to the joystick cable control kit (Part #2) with two 5/16" x 3 1/2" HH cap screws, lock washers, hex nuts and flat washer (Part #20, 27, 27, 30 & 25). **NOTE:** the locking tab on the joystick base should face the rear of the tractor, if joystick needs a ½ turn remove the two metal sleeves for the attaching bolts from joystick and reinsert them at a ½ turn. Then attach this assembly to the handle bracket adapter plate (Part #7) with two 3/8" x 1 1/4" HH cap screws, lock washers, and one flat washer (Part #20, 25, 27, & 30). Note: Attach all fasteners loosely to allow for desired adjustment later.
- 7. Then install the handle bracket adapter plate (Part #7) onto the front right corner post, just ahead of the side counsel in the cab of the tractor. Attach with three 10MM 1.50 x 25MM HH cap screws and lock washers (Part #24 & 29). You need to cut a hole thru the cab floor to route the 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 #3). **Note:** Make sure the joystick is in the locked position. (Center the joystick and push the locking tab in (located on the base of joystick) to lock joystick.). First screw the nut onto the cable, then put the small



Fig 1-1



Fig 1-2



Fig 1-3

o-ring on the cable past the threads.

Slide large o-ring on the connector, 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. 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 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. 1-5.



Fig 1-4

- 9. Install the four fittings (Part #11, 12 & 14) into the manifold block.
- 10. Route the 30" and 36" hoses (Part #15 & 16) behind the tractor and attach to the proper ports on the manifold block already installed on the back of the tractor to valve. See instruction sheet for proper connections.
- 11. Next put the bulkhead adapters with the female halve (Part #10) on the mid-mount couple plate (Part #8).

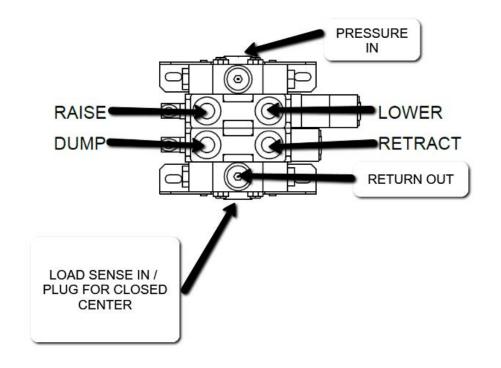
  Note: At this point, install the male half of the colored plugs (Part #9) along with the couplers.
- 12. Now install the mid-mount coupler plate (Part #8) with two 3/8" x 1 1/4" HH cap screws, lock washers and hex nuts (Part #22, 28 & 31). **See in Fig. 1-6.**
- 13. Run hydraulic 150" hoses (Part #17) from valve to midmount coupler.
- 14. After this has been done attach the male half of the quick coupler (Part #10) onto the 84" hoses (Part #18). Note: At this point, install the female half of the colored plugs (Part #9). Attach the other end of the hoses to the steel oil lines on the loader frame. Then attach to the mid-mount coupler. Refer to the top view of the working port diagram and the loader manual to determine the function of the port.
- 15. Secure loader hoses together with four plastic oil line clamps stacked on one another and held together with a 3/8" X 5" HH capscrew, 3/8" flat washers and 3/8" locknut. Secure the remainder of the hoses 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.



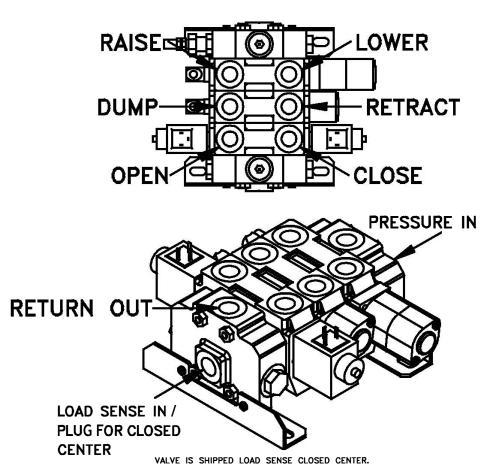
Fig 1-5



## 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 7810:

https://youtu.be/NIBXNDrYNzM

