

Keep With Operator's Manual

THIRD FUNCTION HOSE & PLUMBING KIT WITH MID-MOUNT COUPLERS TO TRACTOR REAR REMOTE VALVES

TRACTOR PREPARATION

Third function plumbing kit can be installed using tools ordinarily available. Two-Function Hose and Plumbing Kit 2-7497 or 2-7496 must be installed before installing this kit.



WARNING: Escaping fluid under pressure can penetrate skin causing serious personal injury.

- Do not use your hands to check for leaks. Use a piece of cardboard or paper. Always wear eye protection when searching for leaks.
- Place control lever in float position and stop tractor engine to relieve hydraulic pressure before connecting and disconnecting lines.
- Tighten all connections before starting engine or pressurizing lines.

If any fluid is injected into skin, obtain medical attention immediately or gangrene may result.

Shut off tractor engine and engage tractor brakes during installation.

INSTALLING THIRD FUNCTION HOSE & PLUMBING KIT (Figure 1 & 2)

1. Install snap rings (15) in first groove on hose side of female coupler (13). Insert couplers (13) into mid mount coupler bracket (provided with two-function hose and plumbing kit) on right mid mount from the bottom side of bracket and attach using snap rings (15). Install couplers to occupy holes at fifth and sixth positions in coupler bracket as shown in figure 1.
2. Attach dust plugs (17) on female couplers (13). Attach 3/8 x 150" hoses (4) to female couplers (13) in holes at fifth and sixth positions in coupler bracket and then tighten connections. Install spiral bands (9 & 10) to corresponding hoses. Connect male quick couplers (20) to opposite ends of 3/8 x 120" hoses (4) and route to tractor rear remote. Use two tie straps (3) to bundle hoses together.
3. Position bulkhead bracket (1) on top of loader cross member to rear of hydraulic oil lines, 9" from where cross member meets left side boom arm and square with loader oil lines (see figure 2b & 2d). Using bracket (1) as template, drill two 7/32 holes into cross member. Fasten bulkhead assembly bracket (1) to cross member using 1/4 x 3/4 self tapping screws (2).
4. Assemble flat face couplers (6 & 7) and dust plugs (18 & 19) onto front of bulkhead fittings (5). Assemble 90° fitting (8) to bulkhead fittings (5).
5. Install spiral bands (9 & 10) onto rear side of bulkhead fitting (5) and attach female end of 3/8 x 150" hoses (11) to 90° fittings (8).
6. Mark opposite end of each 3/8 x 150" hose (11) to identify color indicated by spiral bands. Slide hoses through nylon sleeve (12). Slide hoses in nylon sleeve through hose loop on rear of loader right upright. Attach dust caps (16) and male quick couplers (20). Place colored spiral bands (9 & 10) over corresponding male couplers (20) as shown in figure 2.
7. Insert male couplers (20) into female couplers (13) in fifth and sixth positions in coupler bracket. Make sure color coding corresponds between spiral bands on each hose. Punch holes through nylon sleeve (12) near end of sleeve. Position sleeve near male quick coupler end, then use adjustable tie strap (14) to secure nylon sleeve (12) to hoses (11) by running adjustable strap (14) through holes and around sleeve to avoid slippage and interference with moving parts. Use remaining two tie straps (3) to secure hoses (11) to loader oil lines.

NOTE: Use rubber straps furnished with two function hose and plumbing kit (2-7496, 2-7497) to secure third-function hoses to tractor along with two-function hoses, hooking tarp strap to tractor frame and making sure hoses will not come in contact with tractor exhaust pipe.

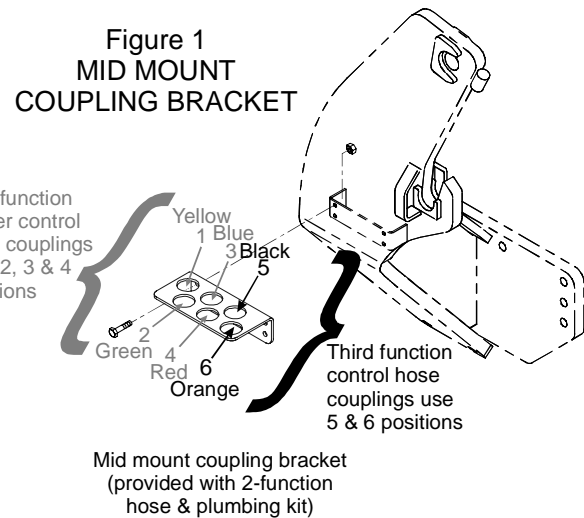
2-7498

INSTALLING THIRD FUNCTION HOSE & PLUMBING KIT (Continued)

8. After all plumbing has been completed, slowly cycle third function attachment several times to purge air from hydraulic system. Retract cylinders and shut off engine. Replenish tractor hydraulic system.

NOTE: When plugging couplers into tractor remote hydraulic couplers, make sure both ports are controlled by same spool.

NOTE: When cycling third function, operate loader according to operation decal for valve. If direction of control lever is wrong, reverse hose connections and recheck operation.



PARTS LIST — THIRD FUNCTION HOSE & PLUMBING KIT (Figure 2)

Item	Part No.	Description	Qty.
1	47580	BULKHEAD Bracket, Third Function	1
2	36354-2	SCREW, 1/4-14 x 3/4, Self tapping	2
3	8137-3	STRAP, Adjustable Tie, .5 x 20	5
4	48318-1	HOSE, 3/8 x 120"	2
5	47297-1	FITTING, Bulkhead Union, 3/4 O-ring x 3/4 JIC	2
6	45291-2	COUPLER, Female, Flat Face	1
7	45292-2	COUPLER, Male, Flat Face	1
8	34128-2	ELBOW 90° YDP	2
9	36240-15	SPIRAL BAND, Orange	4
10	36240-14	SPIRAL BAND, Black	4
11	47579-7	HOSE, 3/8 x 150"	2
12	34853-25	SLEEVE, Nylon, 2.07 x 68"	1
13	47110-1	COUPLER, Female	2
14	8137-1	STRAP, Plastic tie, 3/16 x 11"	1
15	6040-16	RETAINING RING, 1-1/2	4
16	4838-19	DUST CAP, Black	2
17	4838-20	DUST PLUG, Black	2
18	4838-15	DUST CAP, (for female coupler)	1
19	4838-16	DUST CAP, (for male coupler)	1
20	6137-10	COUPLER, quick male	4

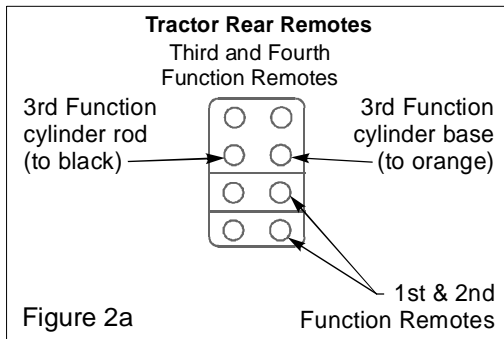


Figure 2a

Figure 2
THIRD FUNCTION
HOSE & PLUMBING

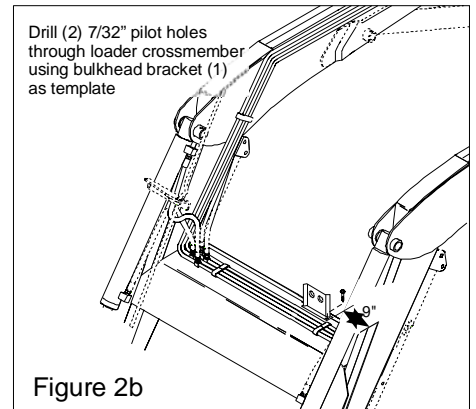
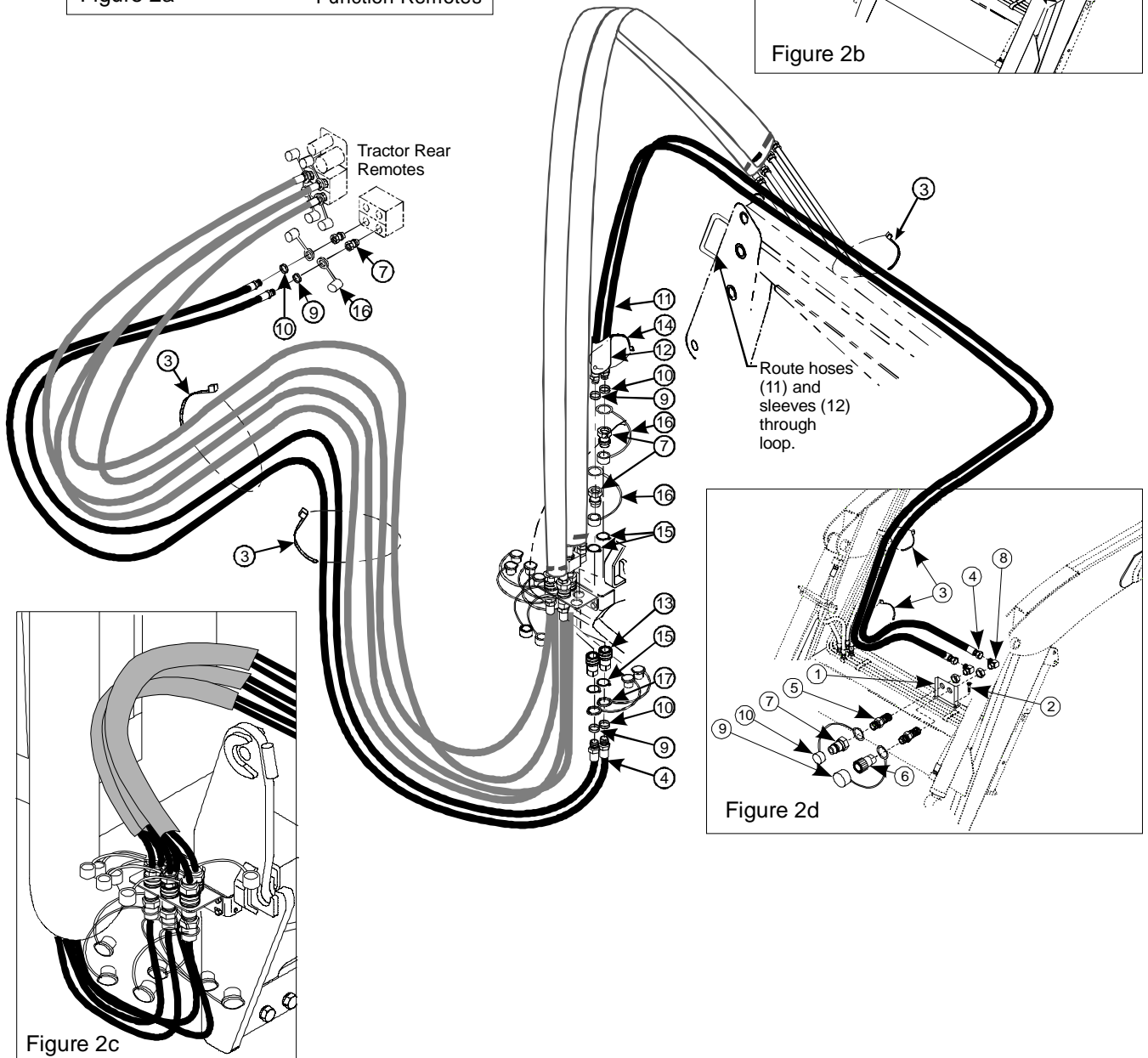


Figure 2b



Torque Specifications for 37° JIC Fittings

Size	Thread Size	Assembly Torque		Tube Connection F.F.F.T	Swivel Nut or Hose Connection F.F.F.T
		in.·lb.	ft.·lb.		
-4	7/16-20	140 ± 10	12 ± 1	2	2
-5	1/2-20	180 ± 15	15 ± 1	2	2
-6	9/16-18	250 ± 15	21 ± 1	1 1/2	1 1/4
-8	3/4-16	550 ± 25	45 ± 5	1 1/2	1
-12	1 1/16-12	1000 ± 50	85 ± 5	1 1/4	1
-16	1 5/16-12	1450 ± 50	120 ± 5	1	1
-20	1 5/8-12	2000 ± 100	170 ± 10	1	1
-24	1 7/8-12	2400 ± 150	200 ± 15	1	1
-32	2 1/2-12	3200 ± 200	270 ± 20	1	1

Torque Specifications for SAE O-Ring Fittings

Size	Swivel Nut or Hose	Assembly Torque		
		in.·lb.	ft.·lb.	F.F.F.T.
2	5/16-24	90 ± 5	7.5 ± 0.5	1 ± .25
3	3/8-24	170 ± 10	14 ± 1	1 ± .25
4	7/16-20	220 ± 15	18 ± 1	1 ± .25
5	1/2-20	260 ± 15	22 ± 1	1 ± .25
6	9/16-18	320 ± 20	27 ± 2	1.5 ± .25
8	3/4-16	570 ± 25	48 ± 2	1.5 ± .25
10	7/8-14	1060 ± 50	90 ± 5	1.5 ± .25
12	1 1/16-12	1300 ± 50	110 ± 5	1.5 ± .25
14	1 3/16-12	1750 ± 75	145 ± 6	1.5 ± .25
16	1 5/16-12	1920 ± 125	160 ± 6	1.5 ± .25
20	1 5/8-12	2700 ± 150	225 ± 12	1.5 ± .25
24	1 7/8-12	3000 ± 150	250 ± 12	1.5 ± .25
32	2 1/2-12	3900 ± 200	325 ± 15	1.5 ± .25

INSTALLATION INSTRUCTIONS