

LAN84209 Installation Instructions

Single Point Hydraulic Kit for 50 Series Walker Combines prior to serial number 695200.

This kit allows combine to function with either single point or multipoint connection headers

LANKOTA[®]

270 West Park Avenue

Huron, SD 57350

866-526-5682

Numerical Parts List

Part Numbers	Description	Quantity
LANH201368	Single Point Hydraulic Cover	1
LANH202240	Seal Strip	2
LANAH206278	Single Point Mount Bracket	1
LANAH204601	Hose Cover Mount Bracket	1
LANH204885	Hose Cover	1
LAN3PLK-0-5AFC	Combine Half of Single Point	1
LAN84209HK	Hose Kit	1
	AH206658, yellow, reel drive hose	1
	AH206659, red, reel return hose	1
	AH206660, light blue, reel fore hose	1
	AH206661, dark blue, reel aft hose	1
	AH206662, green, reel lift hose	1
	AH208408, no color, variable speed hose	1
	FS6602-10, "T" fitting	2
	FS6602-6, "T" fitting	2
	FS6602-4, "T" fitting	1
LAN6FF	Hydraulic Cap	2
LANH135618	Hyd. Line Bracket Extension	1
RED-TRC-TAPE	Anti Skid Tape	1
LAN209735	Wiring Harness	1
LANH175881	Wiring Harness Snap Ring	1
LAN84207/9BH	Bag of Hardware	1
	* LAN19M7784 M10 X 20 Flange Head Bolt	2
	* LAN14M7296 M10 Serrated Flange Lock Nut	2
	* LAN19M7865 M8 X 15 Flange Head Bolt	4
	* LAN14M7298 M8 Serrated Flange Lock Nut	2
	* LAN37M7092 M8 X 15 Self Tapping Bolt	5
	* REDVTG5 24" Cable Tie	12

*included in bag of hardware

Pictorial Parts List

 LAN209735	 LAN19M7784 (2)	 LANAH206278	 LANH175881	 LANH202240 (2)	 LANAH206661
 LAN3PLK-0-5AFC	 LANH204885	 LANH201368	 LAN19M7865 (4)	 LAN14M7296 (2)	 LANAH208408
 LAN14M7298 (2)	 LAN37M7092 (5)	 LANAH204601	 LAN6FF (2)	 LANFS6602-4 (1)	 LANAH206660
 LANFS6602-10 (2)  LANFS6602-6 (2)	 REDVTG5 (12)	 LANH135618	 RED-TRC-TAPE (1) 10"	 LANAH206659  LANAH206662	 LANAH206658

1. Preparation

- 1.1 Park combine on clean level surface. Lower feeder house to 12" – 20" off the ground.
- 1.2 Shut off engine, remove key.
- 1.3 Set parking brake.

2. Removing Shields

Refer to Figure 2.1

- 2.1 Remove front feeder house shield and upper variable drive shield on LH side of combine.
- 2.2 Contour Master™ combines only:
Remove black rubber flap on top of feeder house. Remove mounting tube also.



Figure 2.1

3. Drain Hydraulic Oil

Refer to Figure 3.1

- 3.1 Install (original JD equipment) D15032NU vacuum pump on hydraulic reservoir. This will allow the removal of hydraulic hoses without draining the reservoir.
- 3.2 If vacuum pump is not available, drain reservoir.
- 3.3 Remove cap just aft of hydraulic oil filter on LH side of combine.
- 3.4 Funnel hydraulic oil into clean container. You can refill reservoir with this oil when procedure is complete.

NOTE: 5 – 10 gallons of oil will drain out.



Figure 3.1

4. Locating and Drilling Mounting Holes

Refer to Figure(s) 4.1, 4.2, 4.3 & 4.4

4.1 If equipped WITH CONTOURMASTER™, Position multi-coupler bracket (LANAH206278) over curtain hanger mount as shown in Figure 4.1 and proceed to step 4.3.

4.2 Combines WITHOUT CONTOURMASTER™, Measure from the feeder house pivot casting edge (A) to the edge of multi-coupler bracket (B) a distance of 37-3/8".

4.3 Mark holes on the feeder house. Use bracket as a template for marking 4 mounting holes. Use a center punch to center holes before drilling.

Figure 4.1



Figure 4.3

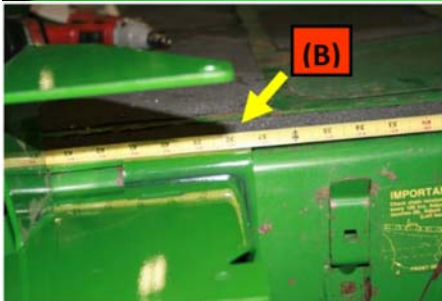


Figure 4.2

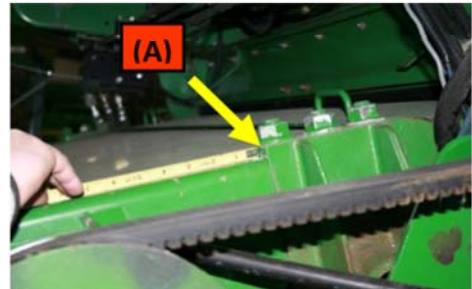
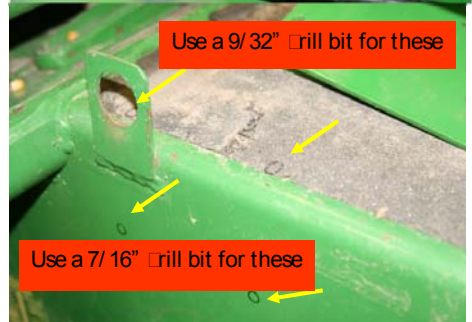


Figure 4.4



Refer to Figure(s) 4.5, 4.6, & 4.7

4.4 Open access door on top of feeder house to install bolts and retain using lock nuts. Use (2) flange head bolts (LAN19M7784) on outside of feeder house and (2) serrated flange lock nuts (LAN14M7298) on inside of feeder house. Do not tighten at this time. Use (2) self-tapping screws (LAN37M7092) to attach mount on the top of the feeder house. Tighten all bolts and screws at this time. See Figure 4.6 & 4.7.



Figure 4.5



Figure 4.6



Figure 4.7

Refer to Figure(s) 4.8, & 4.9

** If equipped with Contour Master™, install pipe through rubber flap indicator and retain using quick lock pin as earlier removed in "Removing Shields" section of these instructions.

4.5 Locate Hole Cover Bracket (LANAH204601). Measure a distance of $3 \frac{15}{16}$ " from the feeder house pivot callout edge (A) forward towards the front of the combine. Mark point. Position the bracket $1 \frac{1}{16}$ " in from the edge of the feeder house and place against marked point.

4.6 Use bracket as template to mark holes on feeder house. Use a center punch to center holes before drilling. See figures 4.8 & 4.9.

4.7 Drill two $9/32$ " holes on located mark. Retain bracket to feeder house using (2) self-tapping screws (LAN37M7092).

Figure 4.8

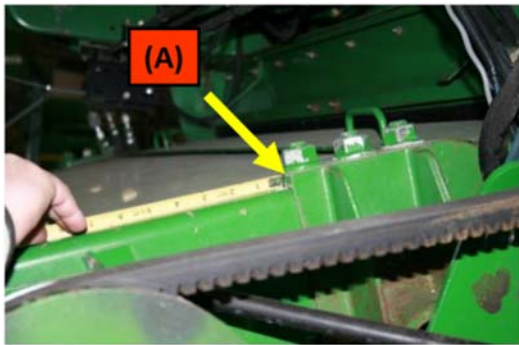


Figure 4.9



5. Installation of Hydraulic Hoses & Fittings

Refer to Figure(s) 5.1, & 5.2

- 5.1 Under cab on left side of feeder house, remove hydraulic line holder bracket, hardware and spacer blocks to allow for installation of the hydraulic "T" fitting in the next few steps. Retain hardware and spacer blocks later in these instructions.
- 5.2 Under cab on right side of feeder house, loosen the six bolts and nuts shown through the black clamping blocks in Figure 5.2. This will allow easier installation of the hydraulic "T" fitting in the next few steps.

Figure 5.1

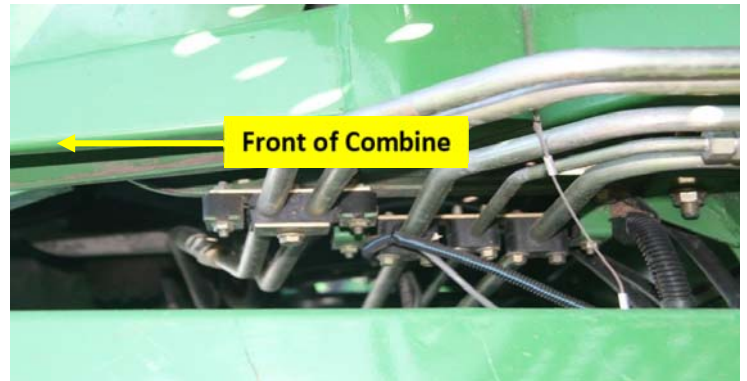
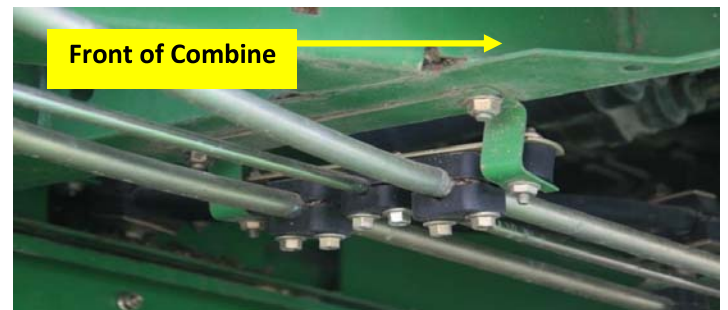


Figure 5.2



Refer to Figure 5.3

Locate rigid hydraulic lines just forward and below the cab door.

5.3 Loosen reel aft line if equipped, reel lift line, reel drive supply line, reel fore line if equipped and reel drive return line. See Figure 7C.

**Note: If combine does not have the reel fore & aft function, you will not have lines A & D as shown in Figure 5.3.

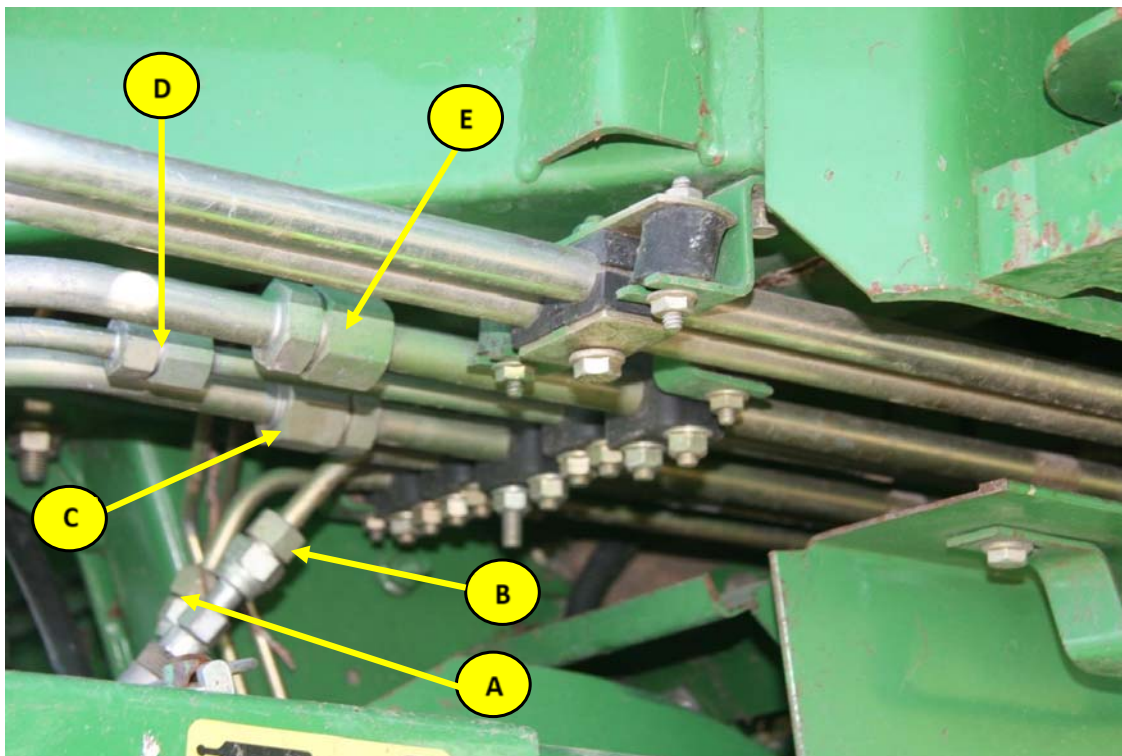


Figure 5.3

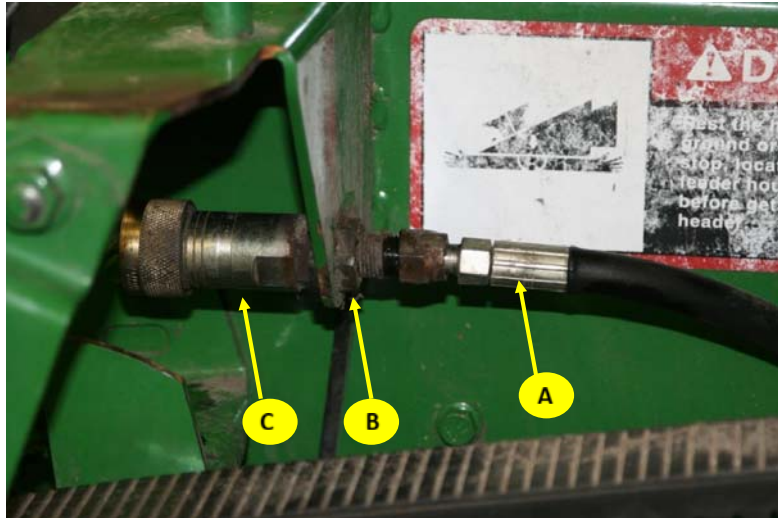
Refer to Figure 5.5

5.4 Loosen and remove hydraulic hose (A). Remove nut (B) from hydraulic quick coupler (C) and retain quick coupler.

Figure 5.5



A



C

B

A

Refer to Figure(s) 5.6, 5.7, & 5.8

- 5.5 Remove and retain fitting from hydraulic quick coupler. Quick coupler will no longer be used. See Figure 5.6. Do not damage o-ring as it will be reused shortly.
- 5.6 Connect upper variable speed hydraulic hose removed in Figure 5.5 to new hose extension LANAH208408.
- 5.7 Remove and discard plug from single point hookup (LAN3PLK-0-5AFC). See Figure 5.7.
- 5.8 Install previously removed fitting with o-ring in single point hookup. Tighten. See Figure 5.8.



Figure 5.6

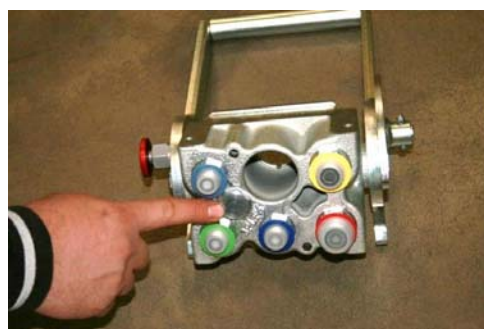


Figure 5.7



Figure 5.8

Refer to Figure 5.9

- 5.9 If combine is not equipped with reel fore & aft, install hydraulic caps (LAN6FF) on the dark & light blue ports on the back side of single point hook up (LAN3PLK-0-5-AFC) to prevent foreign material from entering the hydraulic system. Tighten caps.
- 5.10 Install reel fore hose (light blue) if equipped, reel drive supply hose with shut off valve (yellow), reel lift hose (green), reel aft hose (dark blue) if equipped, reel drive return hose (red) and upper variable speed extension hose to single point hook up as shown below in Figure 5.9.5.11 Do not tighten hoses at this time as to allow hoses to swivel and prevent binding during installation.



Figure 5.9

Refer to Figure 5.10

- 5.11 Install (2) of the LANFS6602-10, (2) of the LANFS6602-6 and (1) of the LANFS6602-4 hydraulic "T" fitting applied in hose kit as shown in Figure 5.4.

****Note: Do not install metal caps as shown in Figure 5.10.**

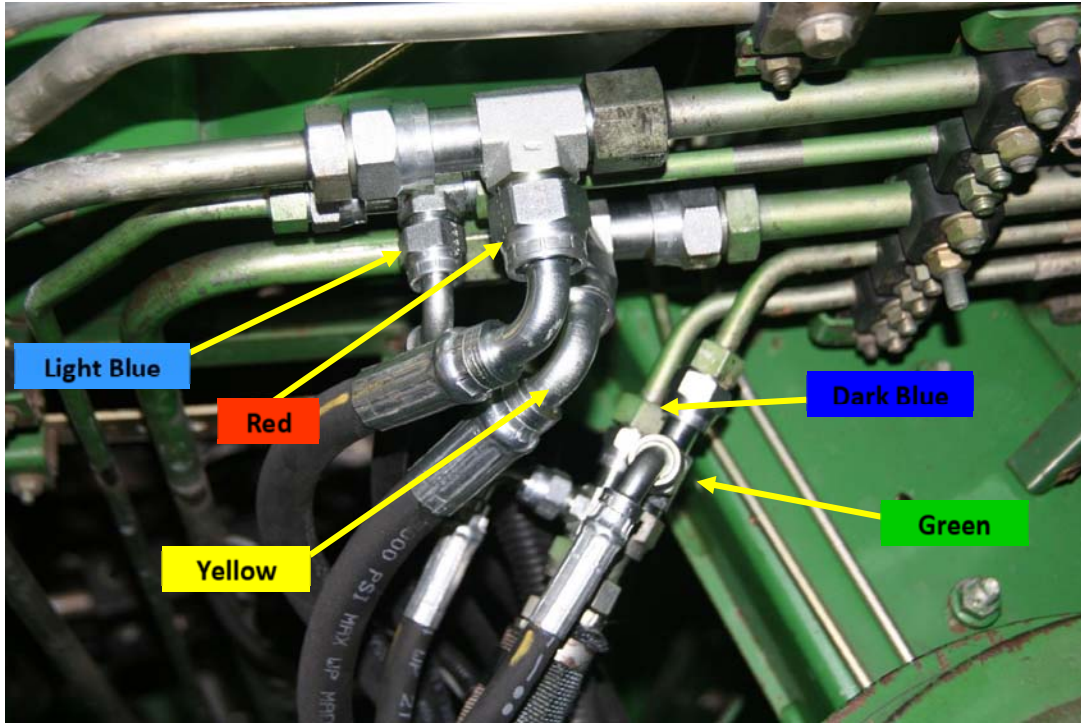


Figure 5.10

Refer to Figure 5.11

5.12 Attach color coded hose as shown below to indicated "T" fitting (See Figure 5.10).

Figure 5.11



Refer to Figure(s) 5.12 & 5.13

5.13 Position single point hookup as it would be when installed.

5.14 Mount single point hookup to feeder house bracket and retain with (4) (LAN19M7865) screws as shown in Figure 5.15. Tighten all hoses.

5.16 Remove D15032NU vacuum pump from hydraulic reservoir if installed.

5.17 Install oil cap if removed in earlier steps to drain hydraulic oil. Refill hydraulic reservoir to proper level. See combine owner's manual for proper hydraulic reservoir oil level.

5.18 Install hose shield (LANH204885) over hydraulic hoses. Retain with (2) M8 lock nuts (LAN14M7296) (See Figure 5.12).

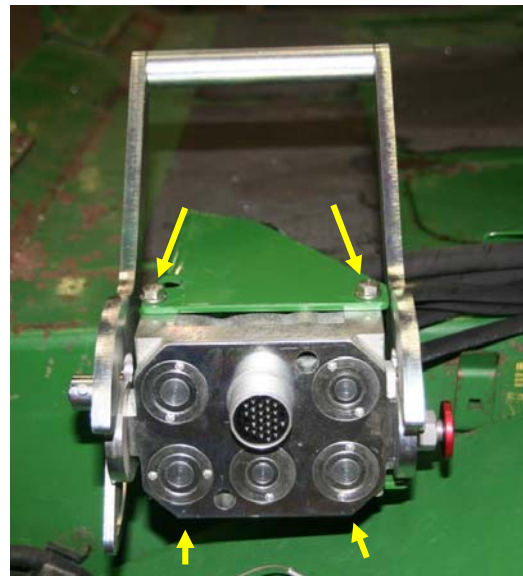


Figure 5.12

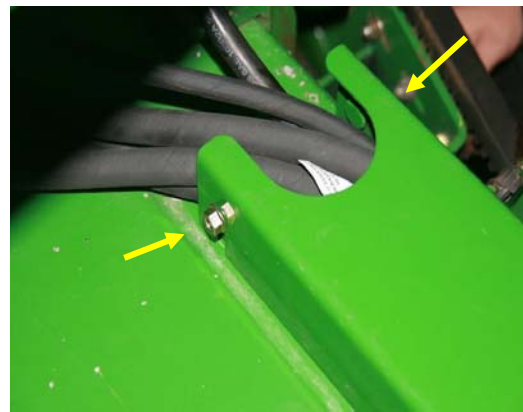


Figure 5.13

6. Hose cover & Electrical

Refer to Figure(s) 6.1 & 6.2

6.1 Use hole in end of bracket as a template for marking mounting hole. Use center punch to center hole for drilling. Drill a 9/32" hole where indicated. Retain bracket to feeder house using (1) self-tapping screws (LAN37M7092)(See Figure 6.1).

6.2 Install anti-slip adhesive pads RED-TRC-TAPE as shown in figure 6.2. Make sure surface is clean and dry before installing adhesive pads to the bracket.

Figure 6.1

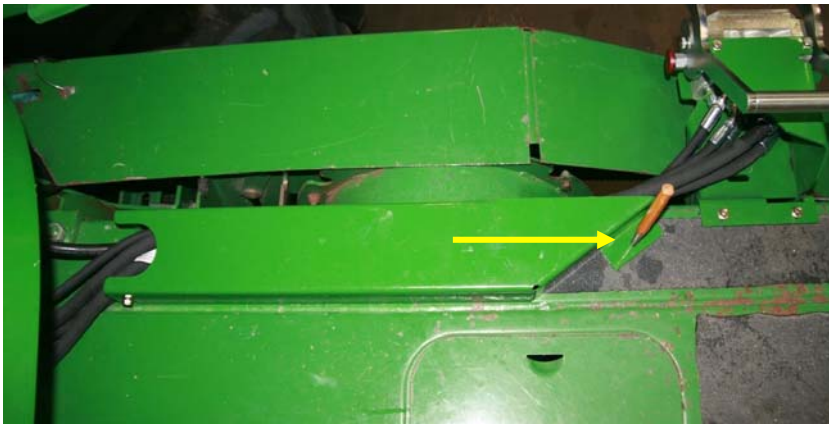


Figure 6.2



Refer to Figure(s) 6.3, 6.4, & 6.5

6.3 Remove main wiring harness from storage position on combine (See Figure 6.3). Attach main wiring harness connector to adapter harness LAN209735 (See Figure 6.4). Install electrical harness through single point hookup and align harness with notch in single point block. Retain electrical harness with snap ring LANH175881 (See Figure 6.5).



Figure 6.3



Figure 6.4



Figure 6.5

Refer to Figure(s) 6.6 & 6.7

6.4 Install 2 rubber seals (LAN202240) into groove on inside of dust cap (LANH201368) as shown in figure 6.6.

6.5 Install dust cap on single point hookup as shown in figure 6.7.



Figure 6.6



Figure 6.7

Refer to Figure(s) 6.8, 6.9, & 6.10

6.6 Using retained hardware and spacer blocks removed in figure 5.1, install new extended bracket LANH135618 as shown in the three figures below.
6.7 Tighten all brackets & hardware loosened in Figure 5.1.

Note: When a platform header equipped with single point hydraulics is used on combine, the large male and female coupler hoses on the right side of feeder house must be uncoupled for proper operation. The handle valve on the reel drive pressure (yellow hose) must be in the open position.

Note: When utilizing header with multiple hose connections keep cover over single point block to protect block face from foreign debris. The handle valve on the reel drive pressure (yellow hose) must be in the closed position.

Note: When utilizing single point header, in order to change header and/or feeder house speed, header single point block must be uncoupled from combine single point block.

For further technical assistance contact Lankota at:
866-526-5682



Figure 6.8



Figure 6.9



Figure 6.10