

# LAN84209NE

## Installation Instructions

Single Point Hydraulic Kit for 00 and 10 Series Combines. NO ELECTRICAL.

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

# LANKOTA<sup>®</sup>

**270 West Park Avenue**

**Huron, SD 57350**

**866-526-5682**

# Numerical Parts List

<b><i>Part Numbers</i></b>	<b><i>Description</i></b>	<b><i>Quantity</i></b>
LANH201368	Single Point Hydraulic Cover	1
LANAH206280	Auto Header Height Bracket	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
LAN3718	*3/8' – 16 Serrated Flange Lock Nut	2
LAN18A	*3/8"-16 x 1.0 Carriage bolt	2
LAN6FF	Hydraulic Cap	2
LANH175881	Internal Snap Ring	1
LANH135618	Hyd. Line Bracket Extension	1
RED-TRC-TAPE	Anti-Skid Tape, 10"	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 Ties	12

# Pictorial Parts List

 LAN18A (2)	 LANAH206280	 LAN19M7784 (2)	 LANAH206278	 LANH202240 (2)	 LANAH206661
 LAN3718 (2)		 LAN3PLK-0-5AFC	 LANH201368	 REDVTG5 (12)	
 LAN14M7298 (2)	 LAN37M7092 (5)	 LANAH204601	 LAN6FF (2)	 LANFS6602-4 (1)	 LANAH206660
 LANH175881	 LANFS6602-6 (2) LANFS6602-10 (2)	 LANH135618	 RED-TRC-TAPE (1) 10"	 LANAH206659 LANAH206662 	

# 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 CONTOUR MASTER™: 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 CONTOUR MASTER™: 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

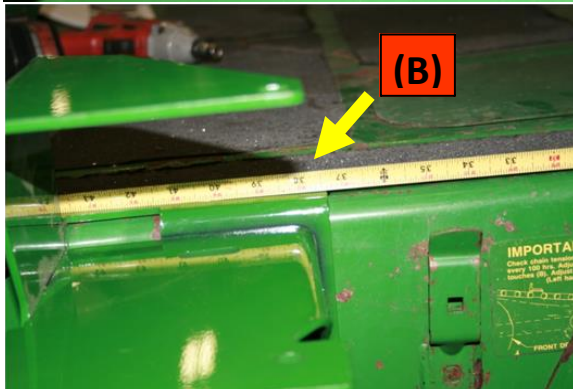


Figure 4.2

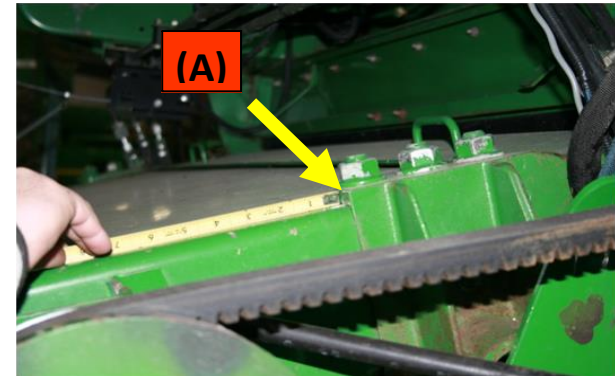
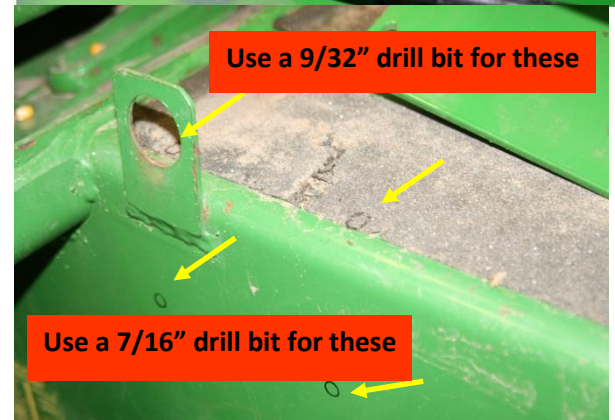


Figure 4.4



**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.

4.5 (this step is only when utilizing the optional LANHBO-JD10-31Q)  
Attach Auto Header Height Bracket (LANAH206280) to main bracket using (2) carriage bolts (LAN18A) and (2) lock nuts (LAN3718). Tighten hardware at this time. **This is where the LANHBO-JD10-31Q will mount.**  
See Figure 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.**

4.6 Locate Hose Cover Bracket (LANAH204601). Measure a distance of  $3 \frac{15}{16}$ ” from the feeder house pivot casting edge (A) forward towards the front of the combine. Mark point. Position the bracket  $\frac{11}{16}$ ” in from the edge of the feeder house and place against marked point.

4.7 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.

4.8 Drill two  $\frac{9}{32}$ ” holes on located marks. Retain bracket to feeder house using 2 self-tapping screws (LAN37M7092).

Figure 4.8

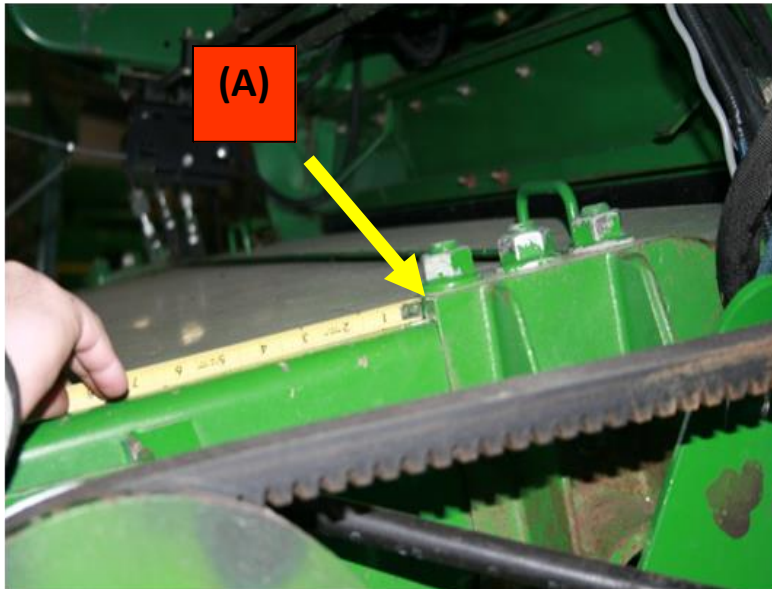


Figure 4.9





## 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” fittings 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” fittings in the next few steps.

Figure 5.1

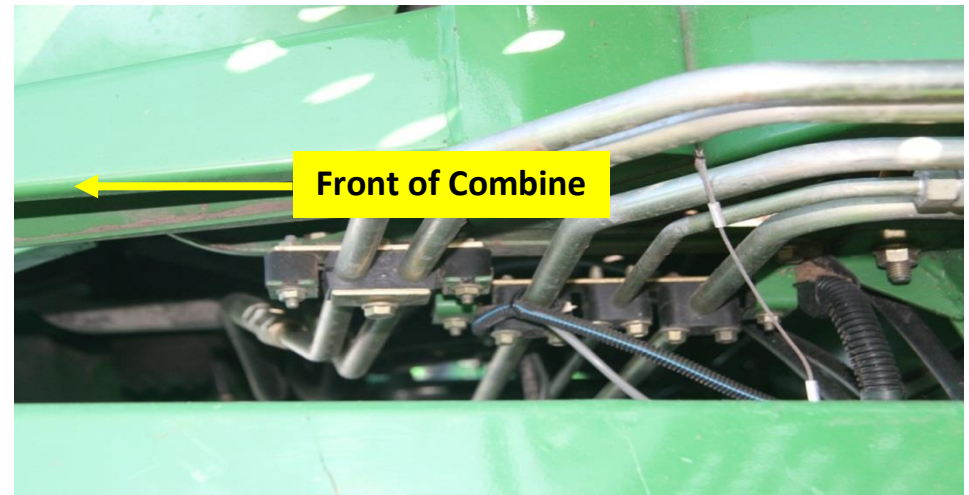


Figure 5.2



**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 line A & D as shown in Figure 5.3.

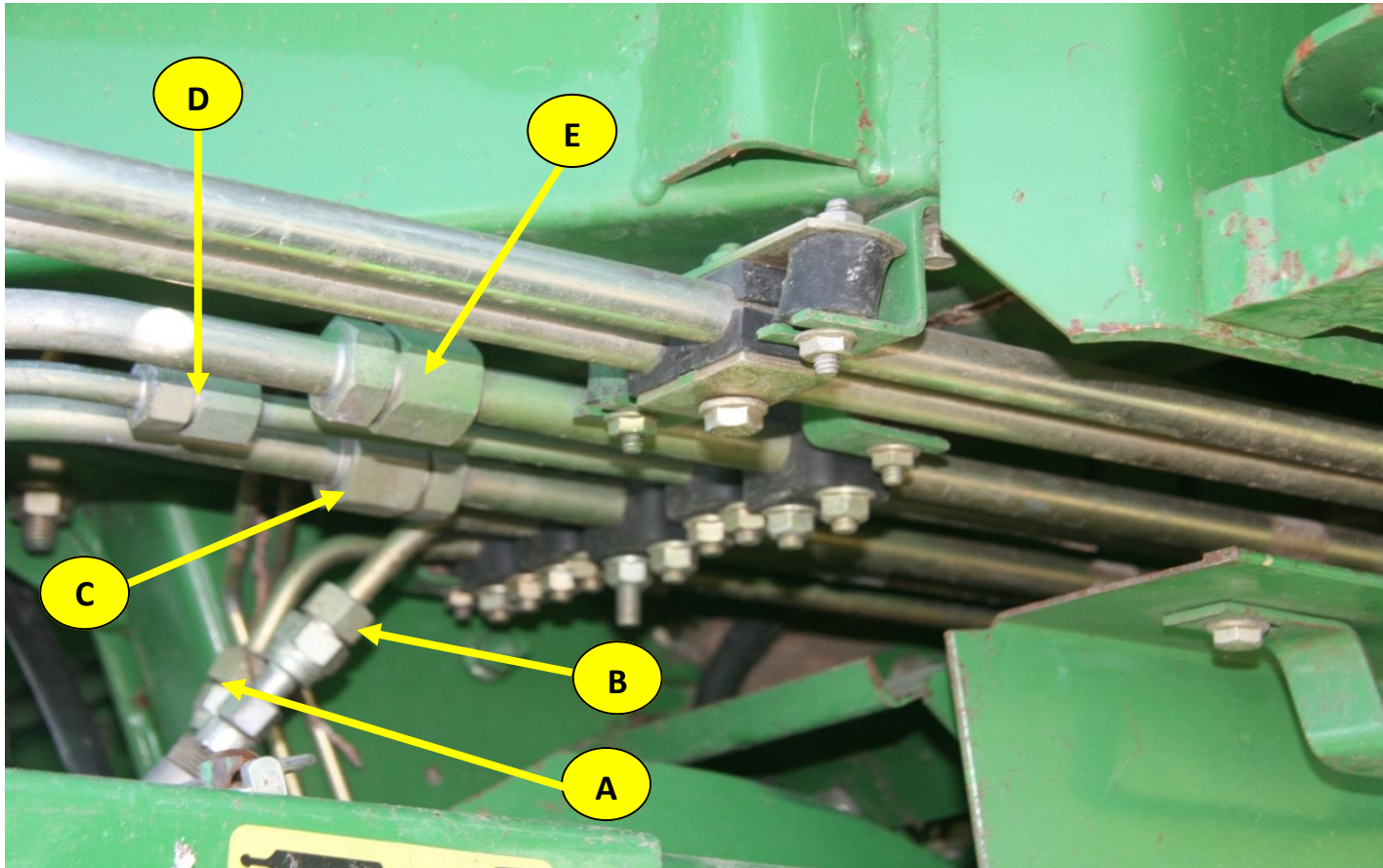


Figure 5.3

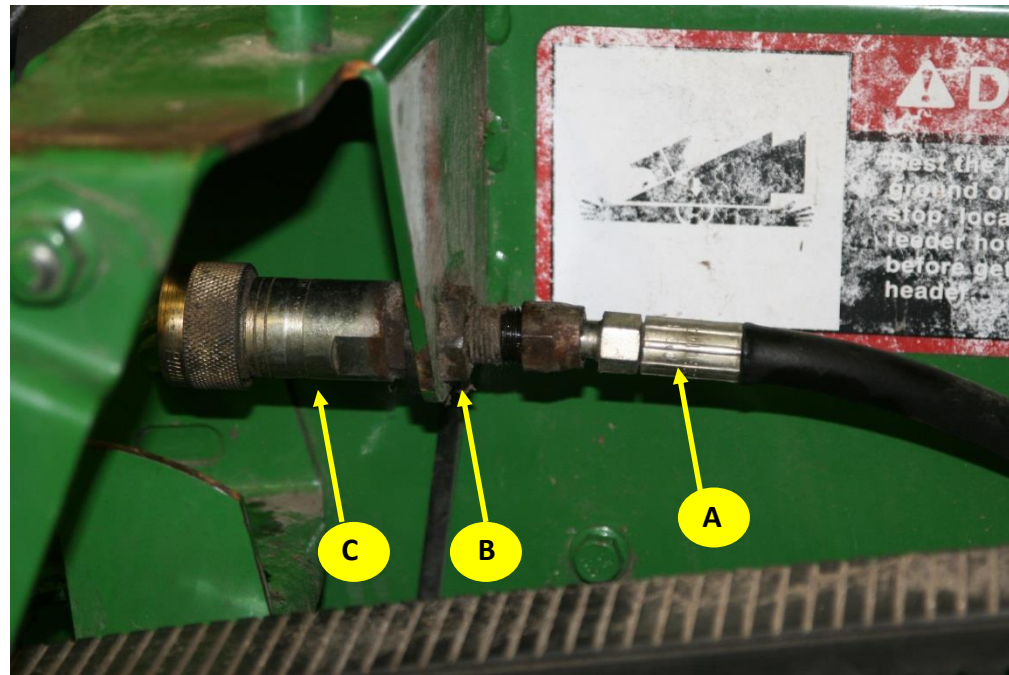
Refer to Figure 5.5

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

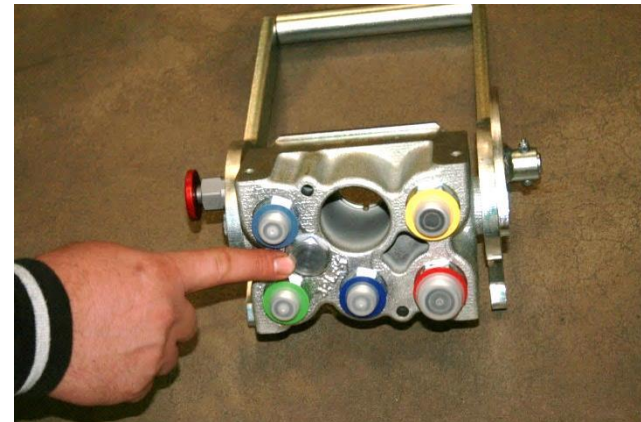


Figure 5.7



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” fittings supplied in hose kit as show in Figure 5.4.

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

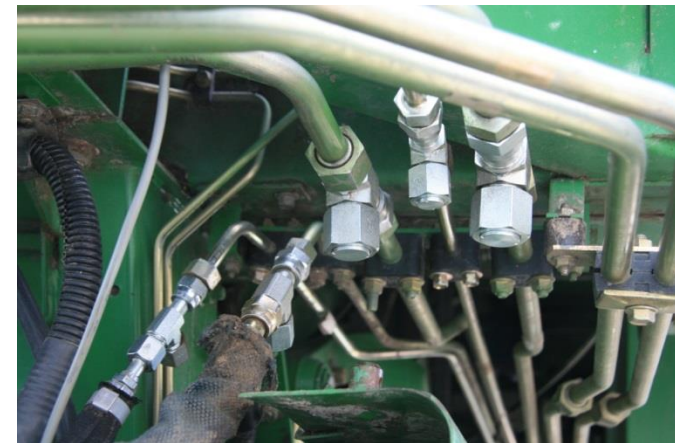
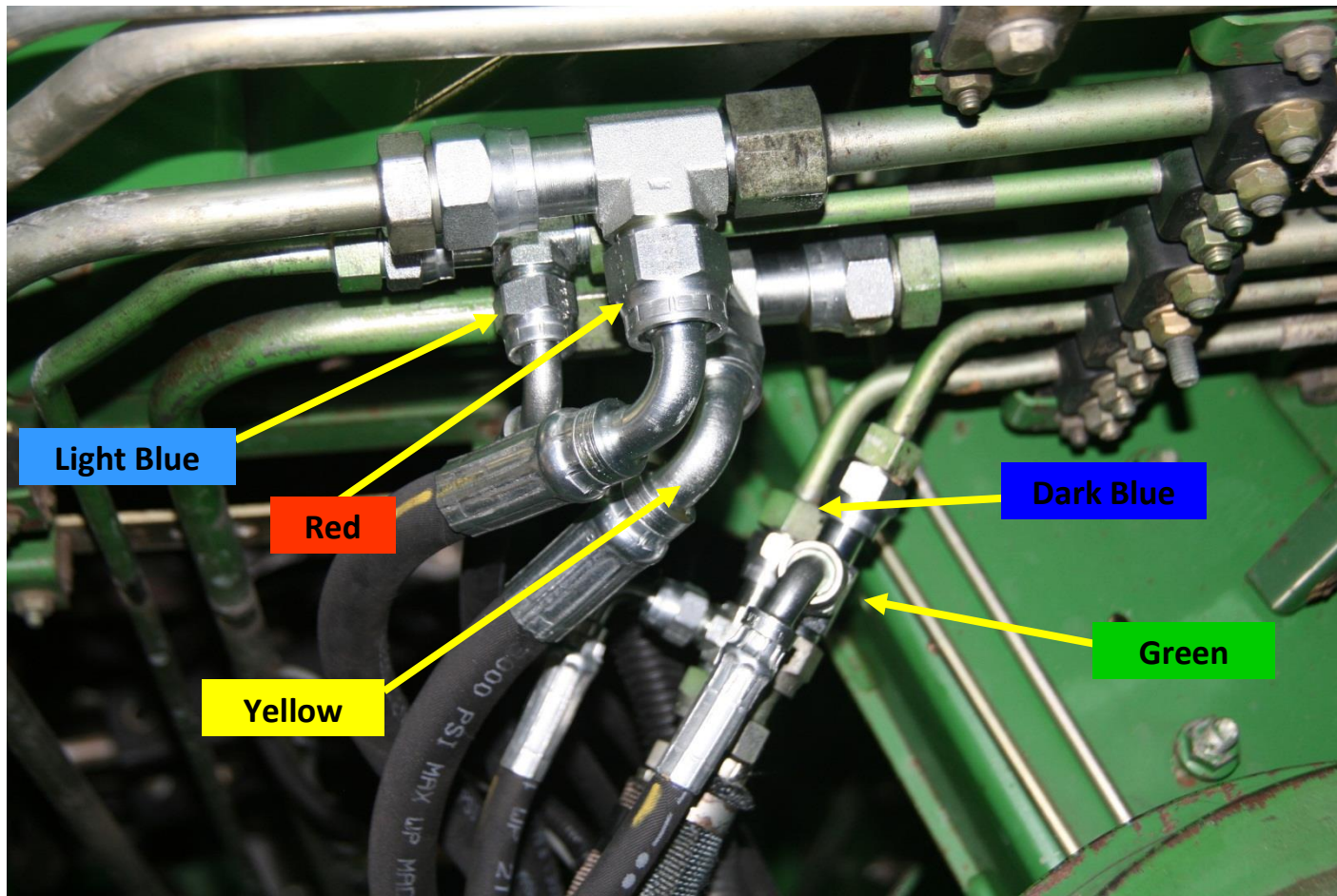


Figure 5.10

Refer to Figure 5.11

5.12 Attach color coded hoses as shown below to indicated "T" fittings (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).

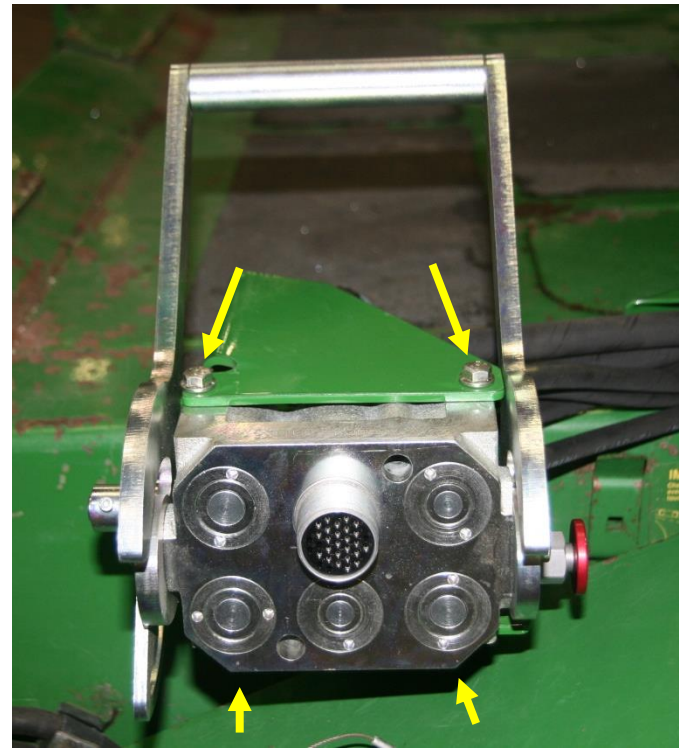


Figure 5.12

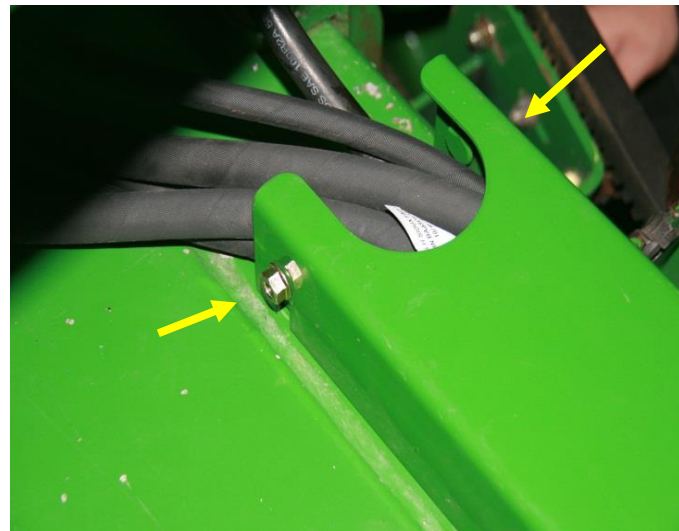


Figure 5.13

## 6. Hose cover

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) M8X15 self-tapping screw (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**

6.3 Install 2 rubber seals (LAN202240) into groove on inside of dust cap (LANH201368) as shown in figure 6.3.

6.4 Install dust cap on single point hookup as shown in figure 6.4.



Figure 6.3



Figure 6.4

**Refer to Figure(s) 6.5, 6.6, & 6.7**

6.5 Using retained hardware and spacer blocks removed in figure 5.1, install new extended bracket (LANH135618) as shown in the three figures below.

6.6 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.



Figure 6.5



Figure 6.6



Figure 6.7

# 7. Installing Auto Header Height Control (LANHBO-JD10-31Q)

7.1 Attach Headsight® Insight® box to mount as shown in Figure 7.1 using supplied hardware.

7.2 Install smaller black box as shown in Figure 7.1 using supplied hardware.

7.3 Attach supplied wiring harnesses to mount as shown in Figure 7.2 using supplied hardware.

7.4 Attach main wiring harness to larger white box and smaller white box. Install single point wiring harness end into hydraulic block and secure with snap ring (LAN175881).

7.5 Attach combine wiring harness as shown in Figure 7.3. Attach operator's station control box wiring harness as shown in Figure 7.3. Run wiring harness to cab as per Headsight® kit instructions. Refer to Headsight® kit instructions to complete kit installation.

For further technical questions contact Lankota at 866.526.5682.



Figure 7.1



Figure 7.2



Figure 7.3