

# LAN 84122

## Installation Instructions

Converts 900 Series Draper Heads from Single Point to Multi-Point.

# LANKOTA<sup>®</sup>

**270 West Park Avenue**

**Huron, SD 57350**

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# Numerical Parts List

<b><i>Part Numbers</i></b>	<b><i>Description</i></b>	<b><i>Quantity</i></b>
LAN38H1604*	Stud Bulkhead Adapter	2
LAN14M7303*	M6 - 1.0 Flange Nut	6
LANQWKW*	M6 - 1.0 Flange Bolt	6
LAN47229*	Clamp Yolk	6
LAN94522*	8010 15P Poppet Male Tip	1
LANFS640068*	Hose Fitting to Coupler	1
LANFS640066*	18M Orb Adapter	2
LAN19M7784*	M10 - 1.5 x 20mm Flange Screw	4
LAN14M7296*	M10 - 1.5 Flange Nut	4
LAN75167*	4050 15P Poppet Coupler	1
LAN2411*	Plastic Hex Nut for Electrical Adapter	1
LAN2414*	Wave Washer for Electrical Adapter	1
LAN44302*	Zip Ties	4
LAN160558	159" x 1 ½" Hydraulic Hose	1
LAN166978	7" x 1½" Angle Iron with 2 Holes	2
LAN128240	Hydraulic Coupler Assembly- Female Lever (small 3/8")	2
LAN128241	Hydraulic Coupler Assembly ½" Hydraulics (BIG)	1
LAN165978	Bracket	1
LAN162870	Bracket with Electrical	1
LAN206290	Harness Clip	1
LAN209735	Wiring Harness	1

*\*included in bag of hardware.*

# Pictorial Parts List

 LAN206290 (1)	 LAN38H1604 (2) *	 LAN14M7303 (6) *	 LANQWKW (6)*	 LAN47229 (6)*	 LAN209735 (1)
 LAN94522 (1)*	 LANFS640068 (1)*	 LANFS640066 (2)*	 LAN19M7784 (4)*	 LAN14M7296 (4)*	 LAN162870 (1)
 LAN75167 (1)*	 LAN2411 (1)*	 LAN2414 (1)*	 LAN44302 (4)*	 LAN160558 (1)	
 LAN166978 (2)	 LAN128240 (2)	 LAN128241 (1)	 LAN165978 (1)		

# Preparation

1. Raise the reel.
2. Insert locking pins supporting the reel in the up position.
3. Press and hold the reel lift button to relieve hydraulic pressure on reel.
4. Remove head from combine (consult owner's manual).

## 1. Installing Mounting Brackets

Refer to Figure(s) 1.1 & 1.2

- 1.1 On the right hand side of the head, measure from the bottom of the attachment frame rail down 10 inches and mark. Then measure 3 inches in from the outside of rail to the front of the head and mark.
- 1.2 Weld bracket (LAN166978) to rail on mark made in previous step.
- 1.3 Repeat same steps for left hand side.

Figure 1.1

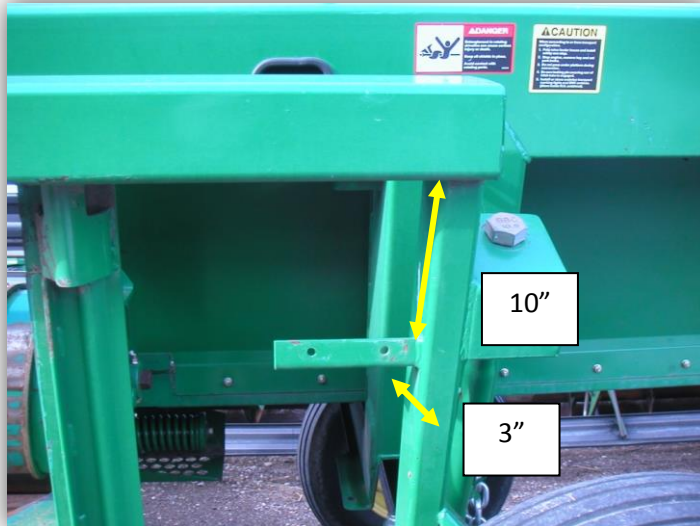


Figure 1.2



Refer to Figure(s) 1.3 & 1.4

1.4 Attach coupler bracket (LAN165978) to mounting bracket (LAN166978) installed on the right hand side in the previous steps. Retain bracket with two bolts (LAN19M7784)\* and two lock nuts (LAN14M7296).

1.5 Attach coupler bracket (LAN162870) to mounting bracket (LAN166978) installed on left hand side in previous steps. Retain bracket with two bolts (LAN19M7784)\* and two lock nuts (LAN14M7296).

Figure 1.3



Figure 1.4



## 2. Routing Hydraulic hoses

**NOTE: When performing these steps, cap the hose ends to prevent hydraulic fluid contamination.)**

Refer to Figure(s) 2.1 & 2.2

2.1 Remove the six bolts holding the main gear box support shield in place. Remove the shield to expose the hydraulic manifold.

2.2 Remove the reel drive return hose from the multi-coupler.

2.3 Locate the hydraulic hose (LAN160558) found in this kit and tape one end of the hose to the hose end just removed from the multi-coupler block.

Figure 2.1

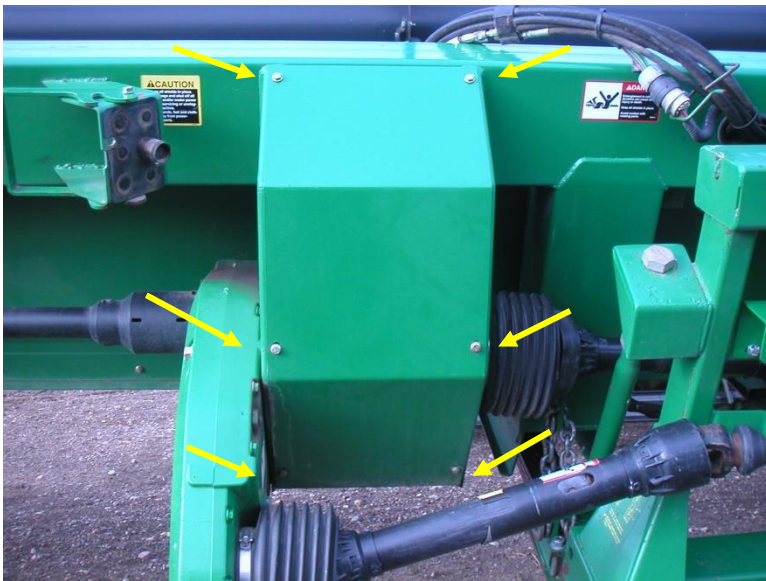
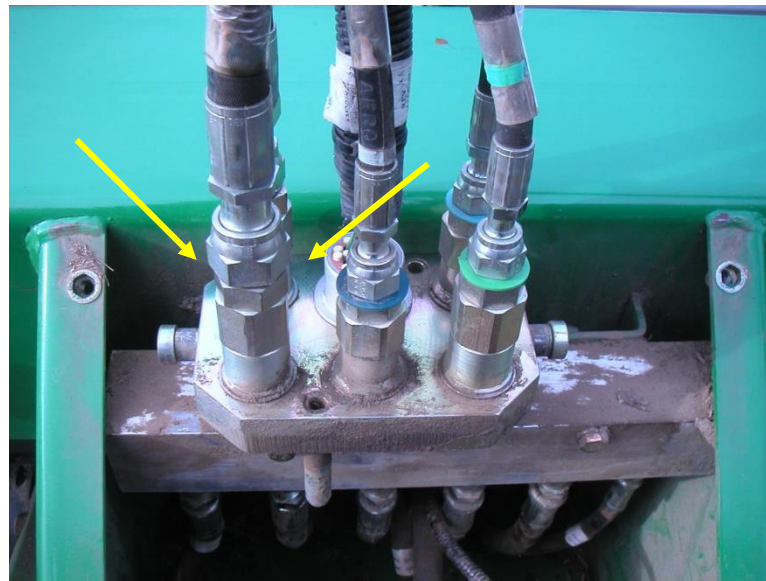


Figure 2.2



Refer to Figure(s) 2.3 & 2.4

2.4 Locate reel drive return hose on the manifold and disconnect the hose from the manifold. Hose number should be AH160558.

2.5 Pull a new hose (LAN160558) to the manifold using the hose disconnected in the previous step.

2.6 Disconnect reel drive pressure (YELLOW) and reel fore hose (LIGHT BLUE) from the multi-coupler block. Cap hoses to avoid dirt contamination then tape the two hoses to the reel drive return hose you were working within the previous steps.

Figure 2.3

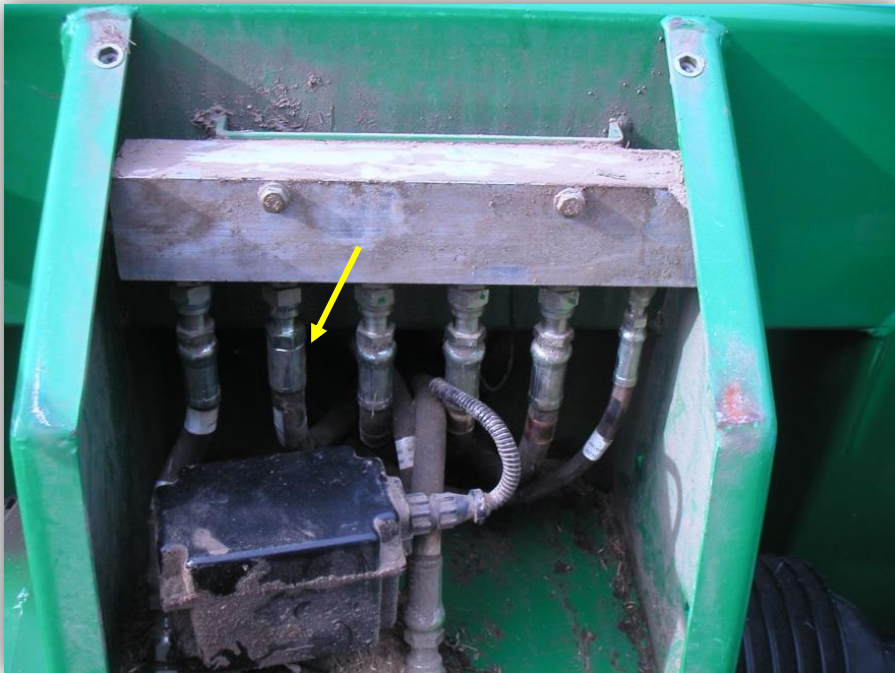
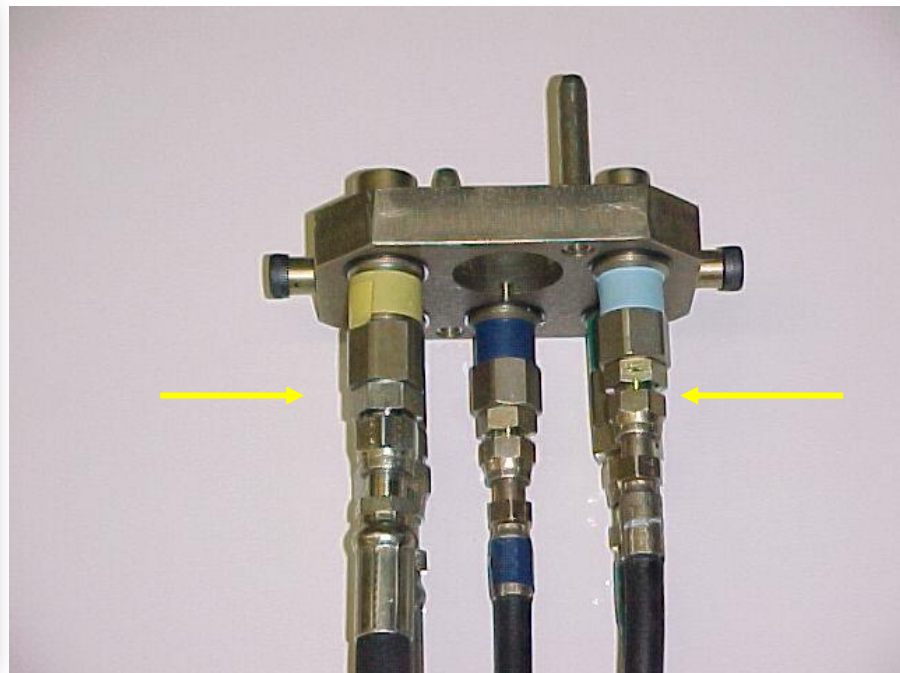


Figure 2.4



Refer to Figure 2.5

2.7 Find the two hydraulic hoses mentioned in previous step (**reel drive pressure** and **reel fore**) in the right side and pull the hoses out through the opening until all three hose ends are through the opening.

Figure 2.5





# 3. Installing the Hydraulic Fittings and Lines

Refer to Figure(s) 3.1, 3.2 & 3.3

3.1 Connect male Hydraulic Fitting (LAN94522)\* to Straight Fitting (LAN38H1604)

3.2 Connect the female Hydraulic Fitting (LAN75167)\* to the Straight Fitting (LAN38H1604)

3.3 Install couplers from figures 3.1 & 3.2 into Mounting Bracket (LAN165978) on right side of header and retain with Nuts (LAN33FS3068)\*.

Figure 3.1

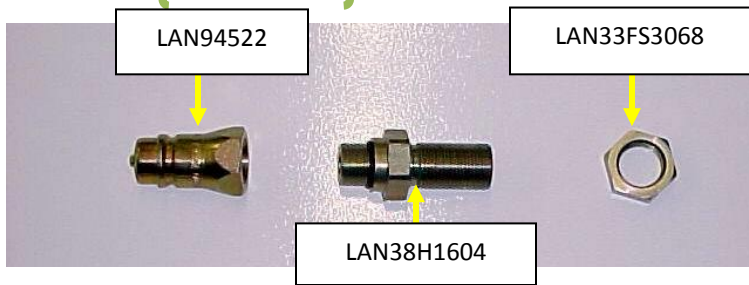


Figure 3.2

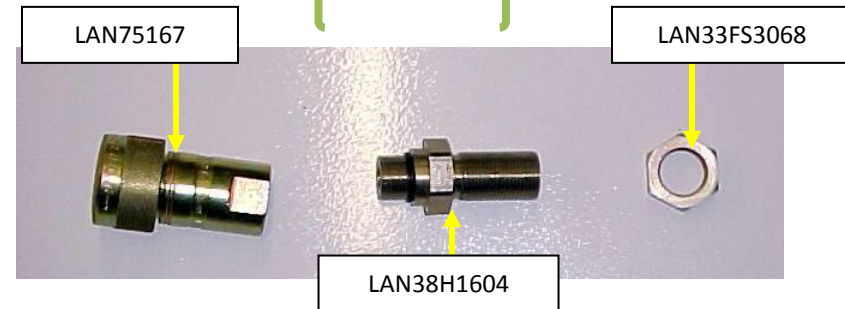
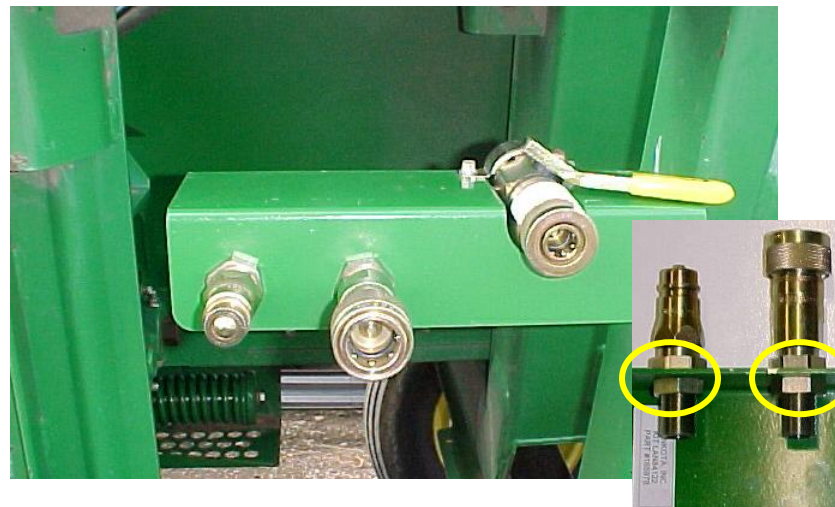


Figure 3.3



Refer to Figure(s) 3.4 & 3.5

3.4 Locate quick connect valve (LAN128240), insert hydraulic fitting (LANFS640066)\* and tighten fitting.

3.5 Attach the quick valve (LAN128240) to the bracket (LAN165978) on the right hand side of the header using two yokes (LAN47229)\*, two bolts (LAN19M7862)\* and two lock nuts (LAN14M7303).

Figure 3.4

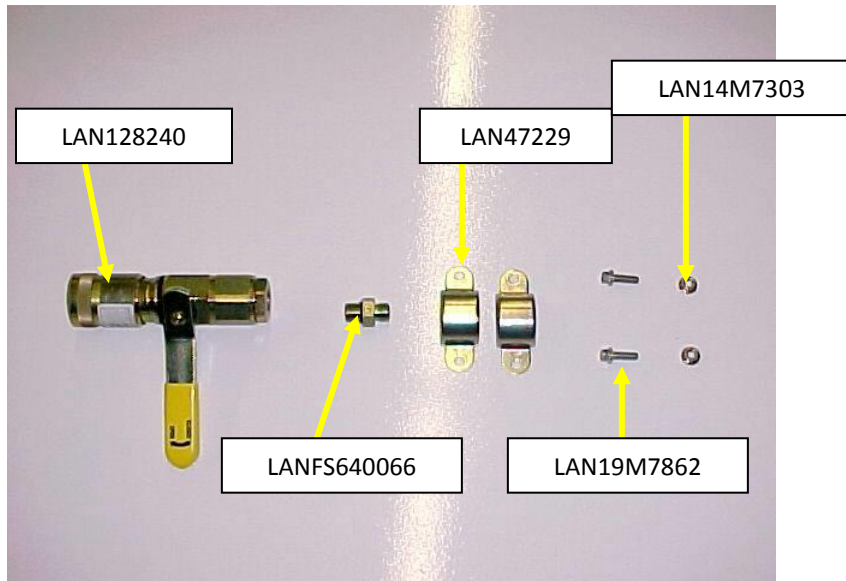
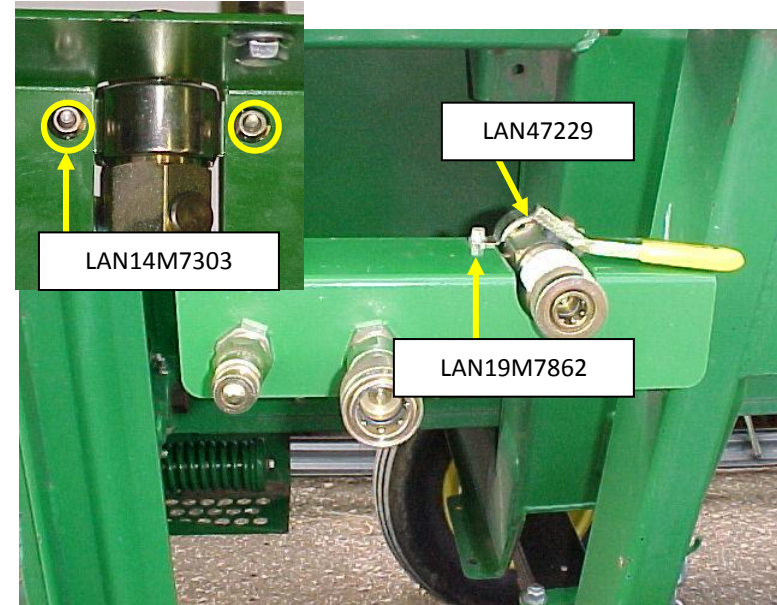


Figure 3.5



Refer to Figure (s) 3.6 & 3.7

3.6 Connect hoses to the couplers. Light blue hose to quick coupler with valve. Hose (LAN160558) to female coupler in the middle. Hose from the multi-coupler reel drive to male coupler.

3.7 Remove wiring harness from multi-coupler block by removing the snap ring to separate the electrical cable from the block.

Figure 3.6

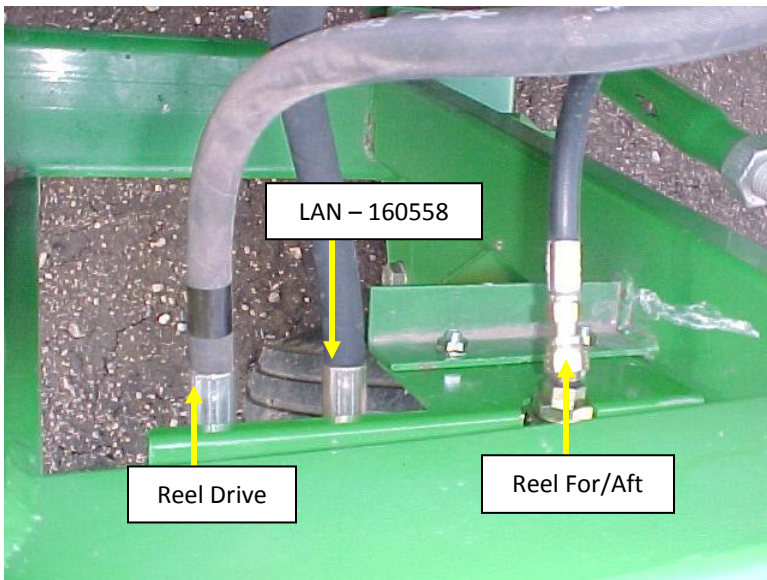


Figure 3.7



Refer to Figure (s) 3.8 & 3.9

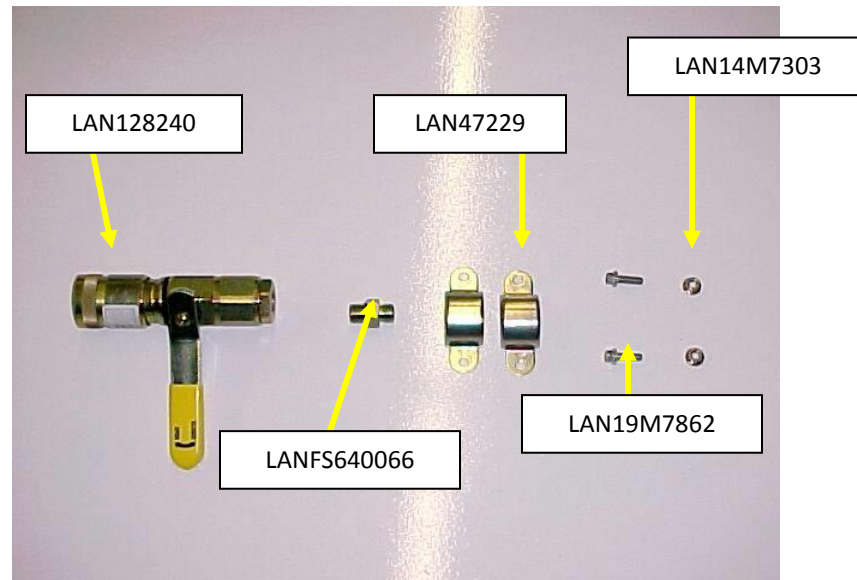
3.8 Remove remaining hoses from the multi-coupler block. Reel lift (GREEN) and reel aft.

3.9 Locate the quick connect valve (LAN128240), insert hydraulic fitting (LANFS640066)\* and tighten.

Figure 3.8



Figure 3.9



Refer to Figure (s) 3.10 & 3.11

3.10 Locate the Quick Connect Valve (LAN128241) insert Hydraulic Fitting (LANFS640068)\* and tighten fitting.

3.11 Attach coupler (LAN128240) assembled in 3.9 and (LAN128241) assembled in 3.10 to mounting bracket (LAN162870) on the left side of the header using four yokes (LAN47229), four bolts (LAN19M7862)\* and four Lock nuts (LAN14M7303)\*.

Figure 3.10

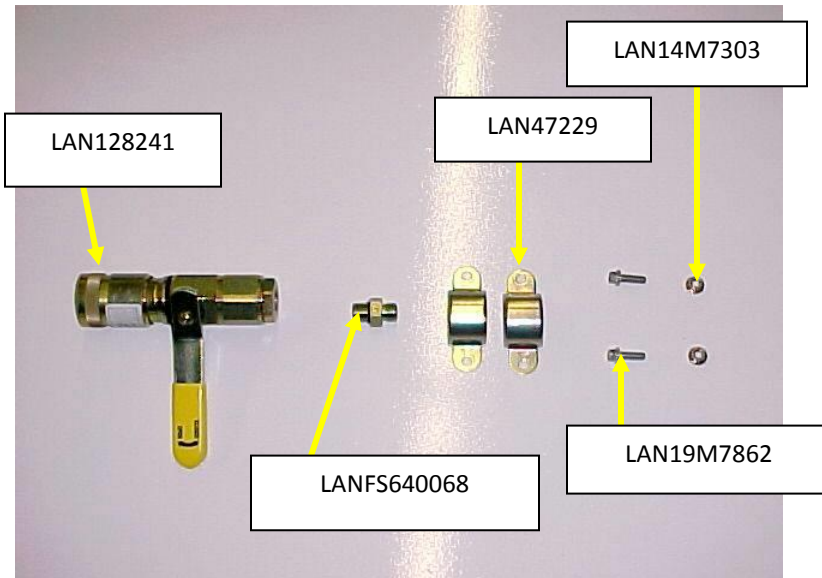
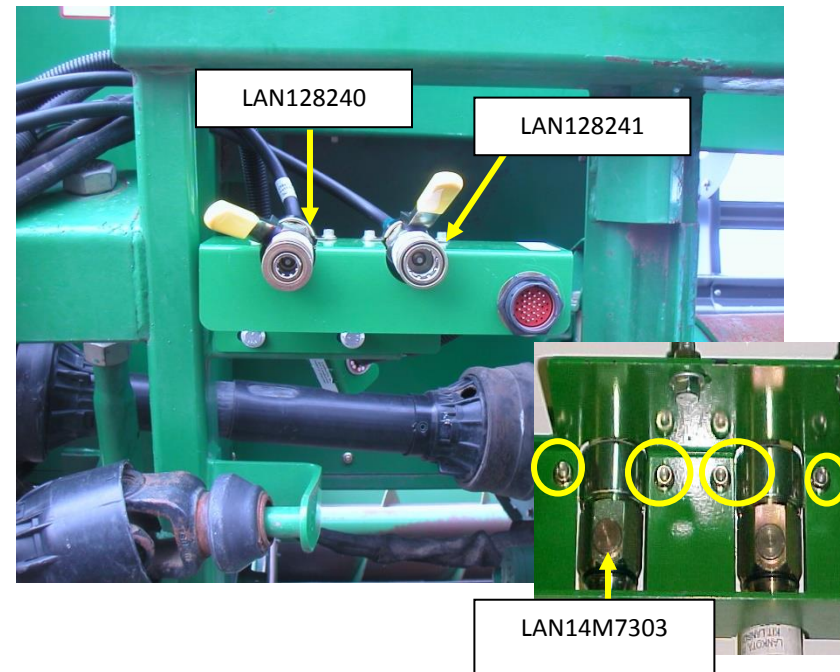


Figure 3.11



Refer to Figure (s) 3.12 & 3.13

3.12 Connect female end of electrical cable (LAN209735) onto male end previously removed from multi-coupler block. Slide bracket (LAN206290) over both of the cable ends and retain with two of the provided zip-ties (LAN44302).

3.13 Insert electrical cable (LAN209735) into left side mounting bracket with the flat spot pointed to the top of the bracket and retain with washer (LAN2414)\* and plastic hex nut (LAN2411)\*. Slightly tighten nut.

Figure 3.12

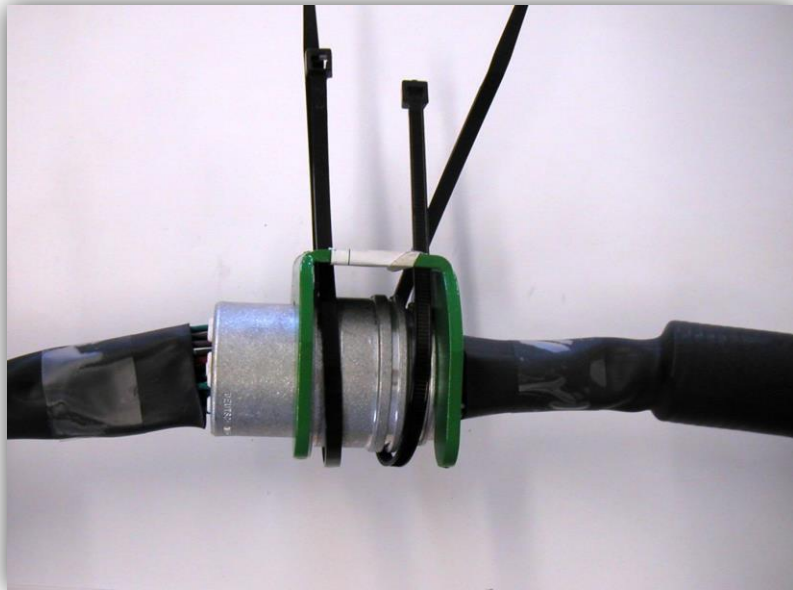
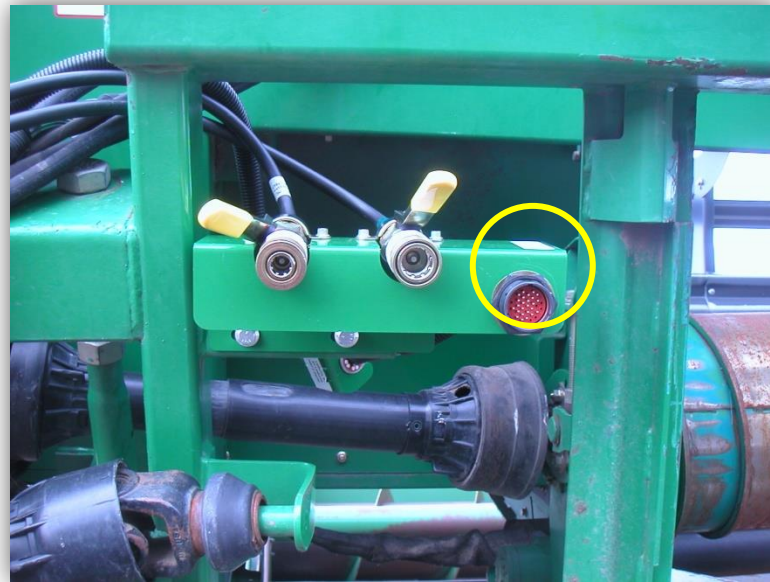


Figure 3.13



Refer to Figure (s) 3.14 & 3.15

3.14 Connect the two remaining hydraulic hoses to the quick valve couplers (LAN128240 & 128241) on the left side of the header.

3.15 Push any extra hose back into the left side frame opening.

3.16 Replace cover plate removed in Figure 2.1 with original hardware.

3.17 To finish installation of LAN84122 check all electrical connections and hose connections to prevent any loss of hydraulic fluid.

Figure 3.14

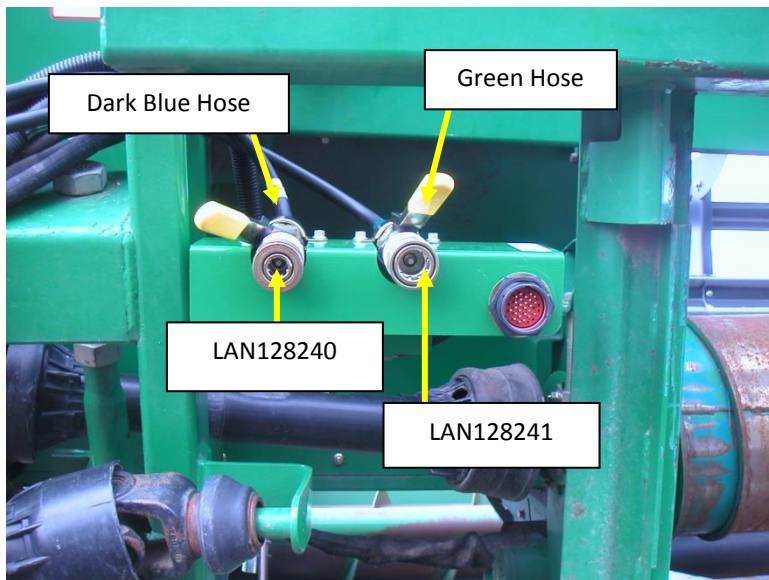
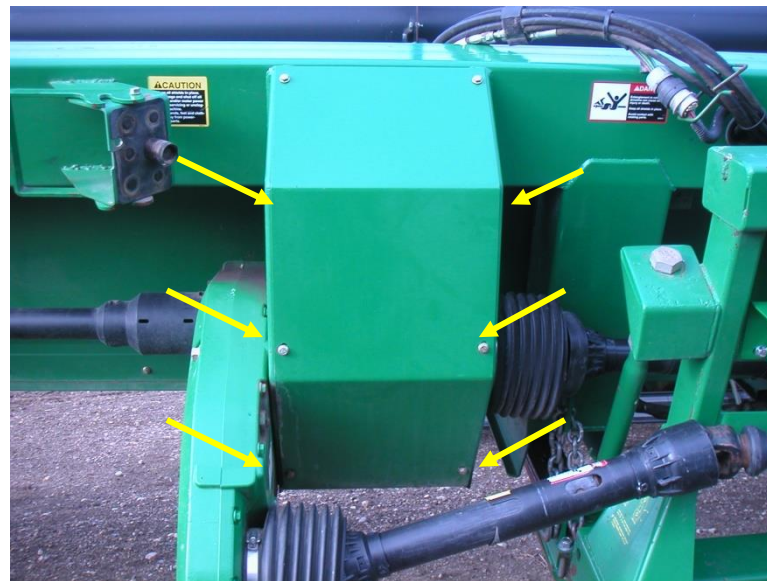


Figure 3.15



For further technical information you may contact Lankota Inc: 866-526-5682