

LANFF1440

Installation Instructions

Lankota Front Fill Connection Kit for John Deere 4940 Sprayer

****INCLUDES OPTIONAL LANFF1440SK INSTRUCTIONS****

LANKOTA®

270 West Park Avenue
Huron, SD 57350
866-526-5682

Numerical Parts List

Part Numbers	Description	Qty
LANFF401	Front Bracket, 40 Series	1
LANFF402	M300300HBT U-Clamp	2
LANFF404	Intermediate Hose Bracket, 40 Series	1
LANFF405	Switch & Valve Mount, 40 Series	1
LANFF408	Hose Hanger Bracket	1
LAN2NT1-12	Panel Mount Toggle Switch	1
LANWT16-4	16 AWG, 4 Strand #10	8
LANFFSTICKER	Front Switch Sticker	1
LANHPXMT	3.5" Vinyl Dipped Hose Clamp	1
LANFR8V9	M12 x 50 Class 10.9 Hex Bolt	2
LANFWS55	1/2" SAE Flat Washer	2
LAN1133	5/16" Flat Washer	4
LAN1616	5/16" Nyloc Nut	4
LANFB103	1/4" x 3/4" Hex Bolt	2
REDWU51	1/4" Flat Washer	2
LANEJRN	1/4" Flange Nyloc Nut	2
LANFB310	3/8" x 2.5" Gr 5 Hex Bolt	3
LAN18A00	3/8" x 1" Gr 5 hex Bolt	3
LAN18000	3/8" Flat Washer	9
RED0DTT	3/8" Top Lock Nut	3
LAN506K	1/2" x 1.5" Carriage Bolt	2
LAN3722	1/2" Serrated Flange Nut	2
LANF0B1U	#10-24 x 3/8" Machine Screw	2
REDVTG5	24" Heavy Duty Zip Tie	6
LAN44302	Zip Tie	12
<u>OPTIONAL (LANFF1440SK)</u>		
LANFF1440SK	Shield Replacement Kit	1
LANFF403	Front Shield Replacement, 40 Series	1
LANFF406	2nd Shield Extended Hinge Replacement	2
LANFF407	2nd Shield Extended Latch Replacement	2

Numerical Parts List

Part Numbers	Description	Qty
LANFF1HK	Front Fill Hose Kit, 40 Series	1
MVS300CFFP	3" Flange Stubby Banjo Valve	1
M300TEE	3" Flange Tee	2
M300BRB45	3" Flange x 3" hose Barb 45 Deg Elbow	2
M300PLG075	3" Flange Plug with 3/4" FPT Port	2
M300CPG45	3" Flange 45 Deg Elbow	1
M300A	3" Male Coupler to 3" Flange	1
M300300HBT	3" Flange x 3" Hose Barb Tee	1
300CAP	3" Banjo Coupler Cap	1
----	3" Flange Clamp	8
----	3" Flange Gasket	8
----	3" T-Bolt Hose Clamp	8
----	3/4" Screw Hose Clamp	2
----	3/4" MPT Close Nipple	2
----	3/8" to 3/4" Reducer Bushing (SS)	1
----	3/8" SS Ball Valve with Panel Mount	1
----	3/8" Air Line Swivel 90 Deg Elbow	3
----	3/8" Air Line Tee	1
----	3/4" FPT Check Valve	2
----	3/4" Street 90 Deg Elbow	2
----	3/4" MPT to 3/4" Hose Barb	2
Hose1	3" Suction Hose	14 ft
Hose2	3/4" Spray Hose	17 ft
Hose3	3/8" Plastic Air Line	25 ft

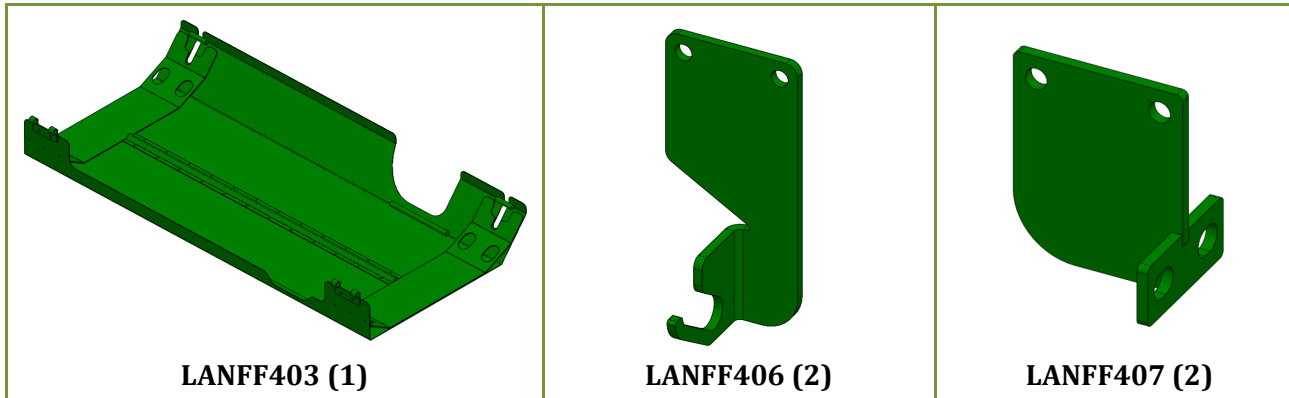
Pictorial Parts List

 LANFF401 (1)	 LANFF402 (2)	 LANFF404 (1)	 LANFF405 (1)	 LANFF408 (1)	 LAN2NT1-12 (1)
 LANHPMXT (1)	 LANFR8V9 (2)	 LANFWS55 (2)	 LAN1133 (4)	 LAN1616 (4)	 LANWT16-4 (22 ft)
 LANFB103 (2)	 REDWU51 (2)	 LANEJRN (2)	 LANFB310 (3)	 LAN18A00 (3)	 LAN18000 (9)
 RED0DTT (3)	 LAN506K (2)	 LAN3722 (2)	 LANF0B1U (2)	 CAB31503 (8)	 LANFFSTICKER (1)

Pictorial Parts List (LANFF1FK)

					
MVS300CFPP (1)	M300TEE (2)	M300BRB45 (2)	M300PLG075 (2)	M300CPG45 (1)	M300A (1)
					
M300300HBT (1)	300CAP (1)	3" Flange Clamp (8)	3" Flange Gasket (8)	3" T-Bolt Clamp (8)	3/4" hose Clamp (2)
					
3/4" MPT Nipple (2)	Reducer Bushing (1)	3/8" Ball Valve (1)	3/8" Air Elbow (3)	3/8" Air Tee (1)	3/4" Check Valve (2)
					
3/4" Street Elbow (2)	3/4" Hose Barb (2)	Hose (14 Ft.)	Hose2 (17ft)	Hose3 (25ft)	

Pictorial Parts List (Optional)



Preparation

1. Make sure the tank and lines are completely empty and clean.
2. Make sure the booms are completely folded.
3. Park the sprayer on a flat and level surface.
4. Set the parking brake, turn off the engine and remove the key.
5. If applicable, drop and remove all under-carriage shields, except the rear-most one.

Kit Installation

Refer to Figure 1

1. Remove the elbow on input of the strainer and replace with one of the flange tees (M300TEE).
2. It is recommended that you loosen some of the fittings around the strainer and intake hose to push the strainer upward into the sprayer a little more.

Refer to Figure 2

3. Loosen the bolts holding on the front mirror to the frame and replace with the M12 x 50 bolts and 1/2" washers provided.
4. Mount the front hanger bracket (LANFF401) on the new bolts by reinstalling the original flange nuts.

Figure 1

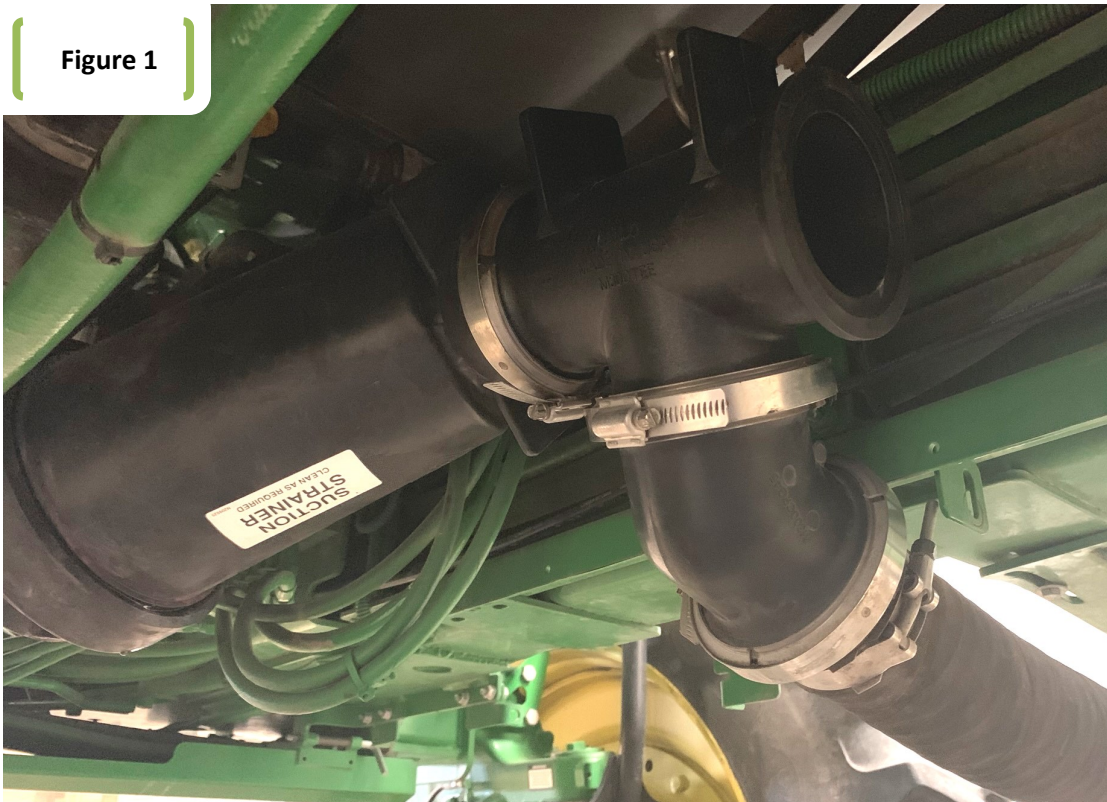


Figure 2

Kit Installation



Figure 3



Figure 4

Refer to Figures 3 & 4

5. Attach the Intermediate hanger bracket on the right side of the sprayer, by the front axle. Use two 1/2" x 1.5" carriage bolts (LAN506K) and 1/2" serrated flange nuts (LAN3722).

6. Assemble the shown subassemblies:

Refer to Figure 5 - Use M300PLG075, 3/4" Street Elbow, 3/4" Close Nipple, 3/4" SS Check Valve and 3/4" MPT to Hose Barb.

Refer to Figure 6 - Assemble 3/8" SS Ball Valve & (2) 3/8" Air Line Swivel 90 Elbow.

Blue arrow indicates direction of flow.



Figure 5

Figure 6



Kit Installation



Figure 7

Refer to Figure 7 - Use M300PLG075, 3/4" Close Nipple, 3/4" SS Check Valve, 3/8" x 3/4" Reducer and 3/8" Air Line Swivel 90 Elbow.

Refer to Figure 8 - Install the ball valve subassembly into the mounting bracket (LANFF405) with #8-32 x 1/2" machine screws (LANFOB1H).

Refer to Figure 9 - Attach a 3/4" street elbow and 3/4" MPT to hose barb fitting to the top of the main tank. (Picture shown is a SS elbow, short nipple and hose barb adapter.)

Blue arrow indicates direction of flow.

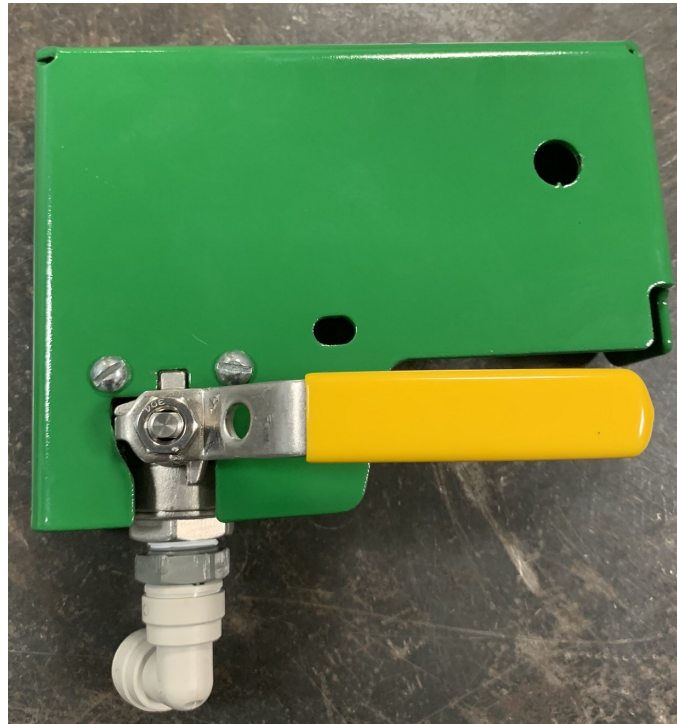


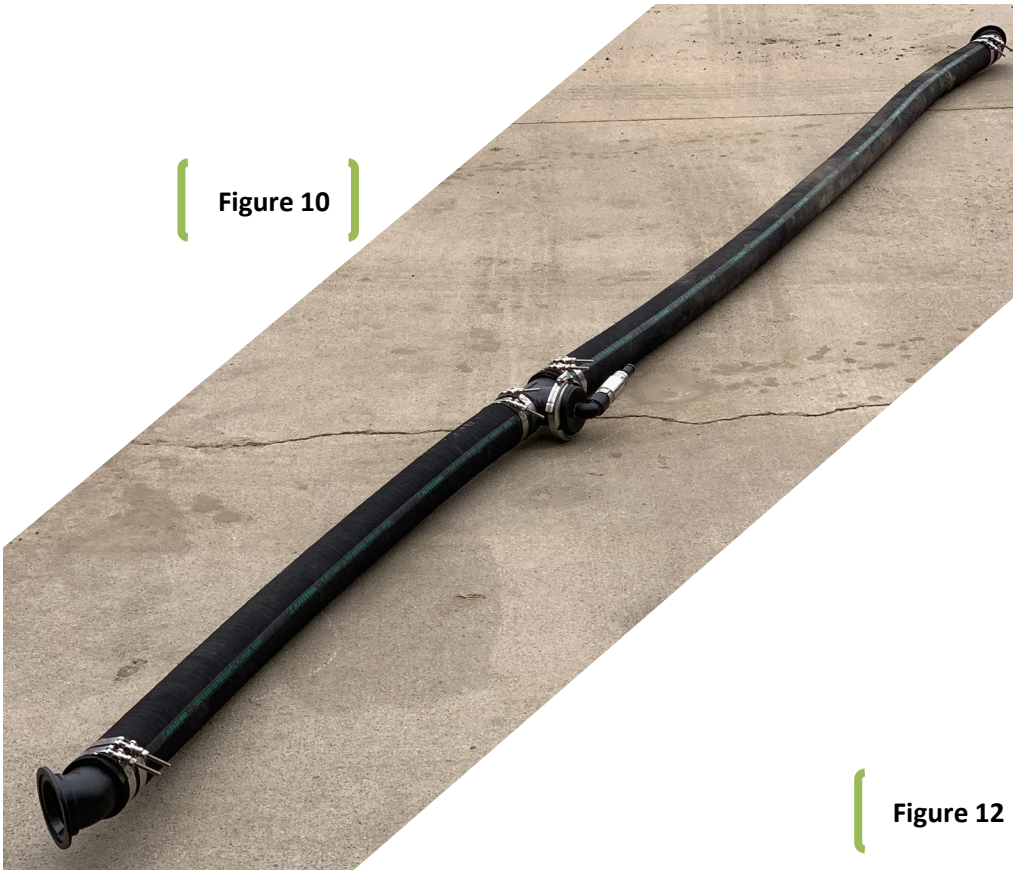
Figure 8



Figure 9

Kit Installation

Figure 10



Refer to Figures 10—13

7. Cut the 3" hose into a 54" and 120" pieces. Assemble the main hose as shown. Use (2) M300BRB45, M300300HBT, (8) T-Bolt Hose Clamps and the hose sections.

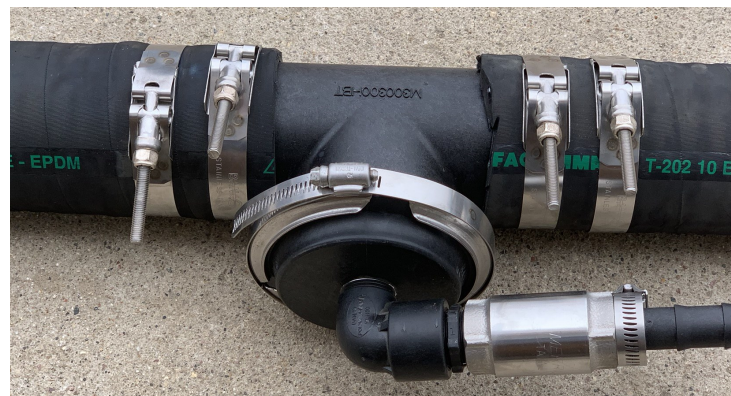
Note: Leave the 45 degree fittings a little loose and able to turn. Connect the Figure 5 assembly to the tee in the middle.

Figure 12

Figure 13



Figure 11



Kit Installation

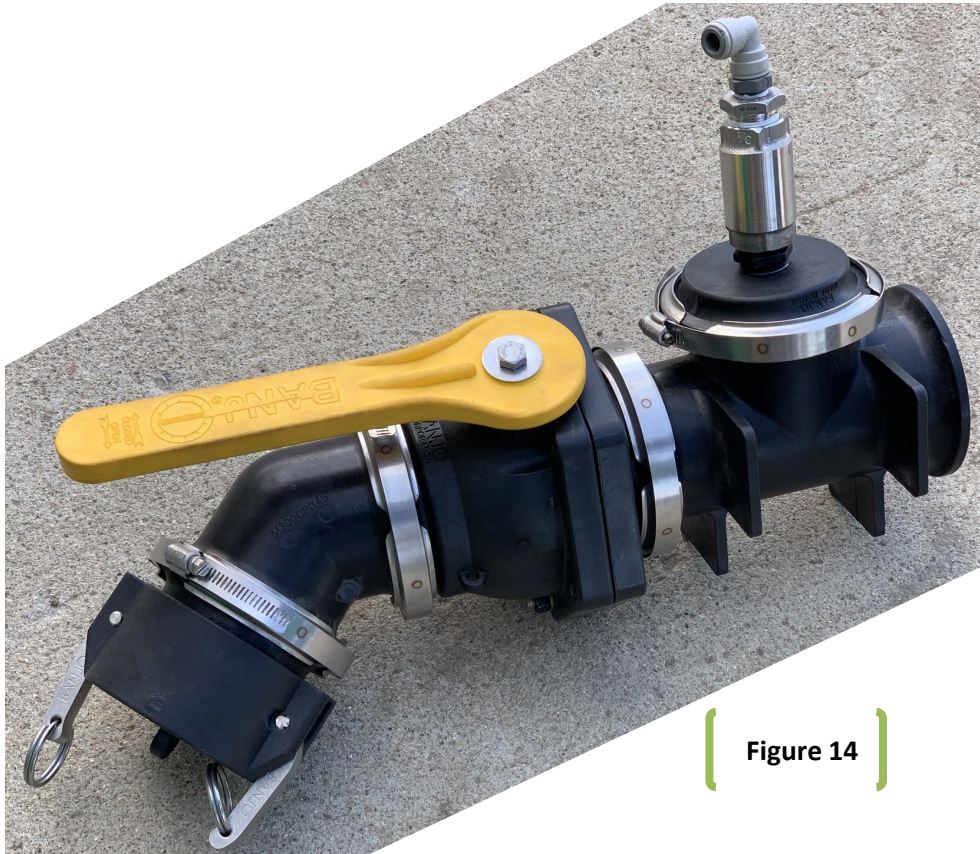


Figure 14

Refer to Figures 14 & 15

8. Assemble the main hose as shown. Use MVS300CFFP, M300CPG45, M300TEE, M300A and 300CAP.

Note: Leave the 45 degree and tee fittings a little loose on the valve to orient. **Connect the Figure 7 assembly to the tee.**

9. Remove the three bolts from the valve as shown. Keep the nuts and washer.



Figure 15

Kit Installation

Figure 16



Refer to Figures 16 & 17

10. Install the Figure 8 assembly on the front hanger bracket with two 1/4" x 3/4" hex bolts (LANFB103), flat washers (REDWU51) and flange nyloc nuts (LANEJRN).
11. Mount the banjo valve assembly (Figure 14) to the front bracket with 3/8" x 2.5" hex bolts (LANFB310) and the previously removed valve hardware.

Refer to Figures 18 & 19

12. Cut two short pieces of tubing (2-3 inches) from the 3/8" air line. One will connect the stainless ball valve and check valve up front.
13. The second piece will connect the air line tee to the tank. Disconnect the regular line, add the short piece & tee, then reconnect the regular line to the tee.
14. Do not run the main air line yet.

Figure 18

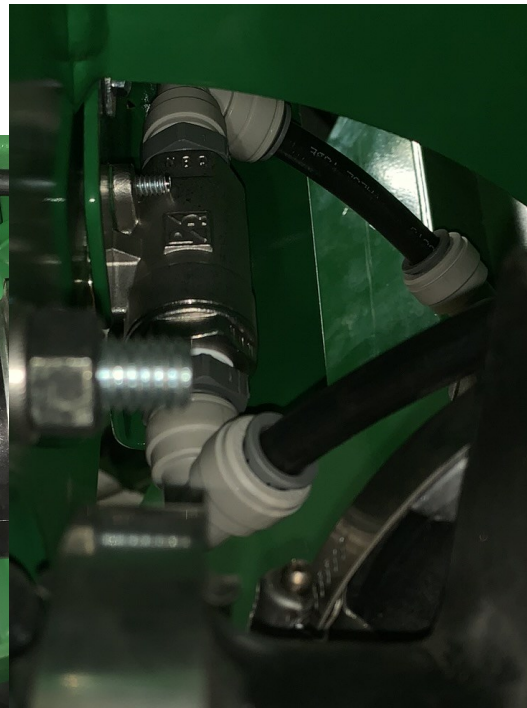
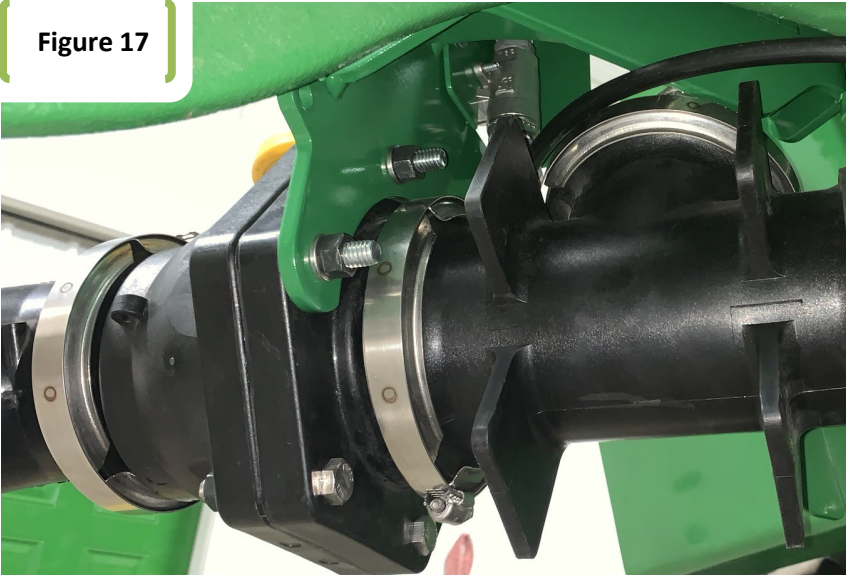


Figure 19



Figure 17



Kit Installation



Figure 20



Figure 21



Figure 22



Figure 23

Refer to Figures 20—23

15. Install the main hose line. Hang the barb tee in the intermediate bracket (LANFF404) and secure with the U-clamps (LANFF402), 5/16" flat washers (LAN1133) and 5/16" nyloc nuts (LAN1616).
16. Connect the 120" hose end to the tee previously installed by the original side fill.
17. Connect the 54" hose to the front valve assembly and tighten all hose clamps.

Kit Installation

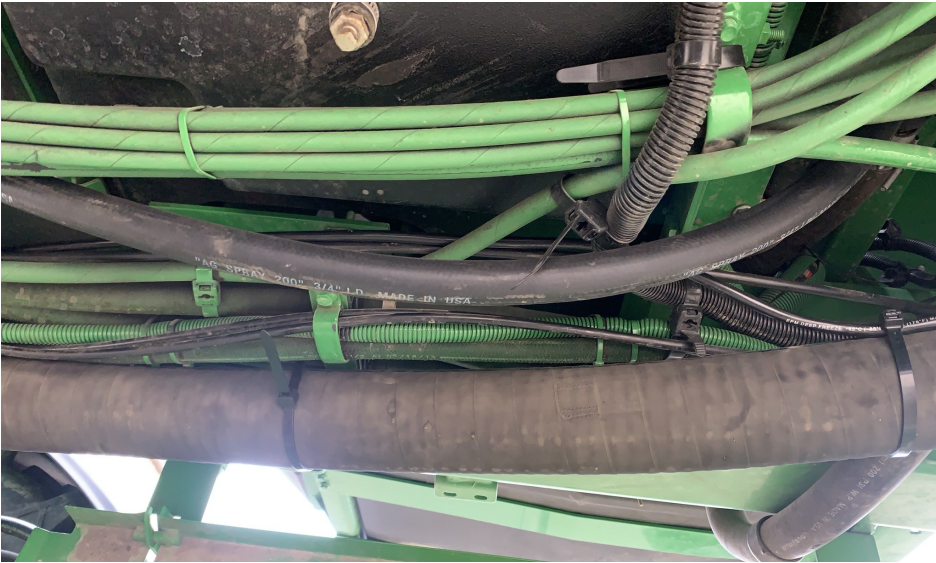


Figure 24

Figure 25



Refer to Figures 24—26

18. Run the air line from the air tank to the ball valve up front.
19. Run the 4 strand, 16 gauge wire from the original side fill electrical panel to the front hanger bracket.
20. Run the 17 feet of 3/4" hose from the top of the tank to the hose barb on the intermediate bracket (Figures 5 & 12).

Note: Use the provide zip ties as needed.



Figure 26

Kit Installation



Figure 27

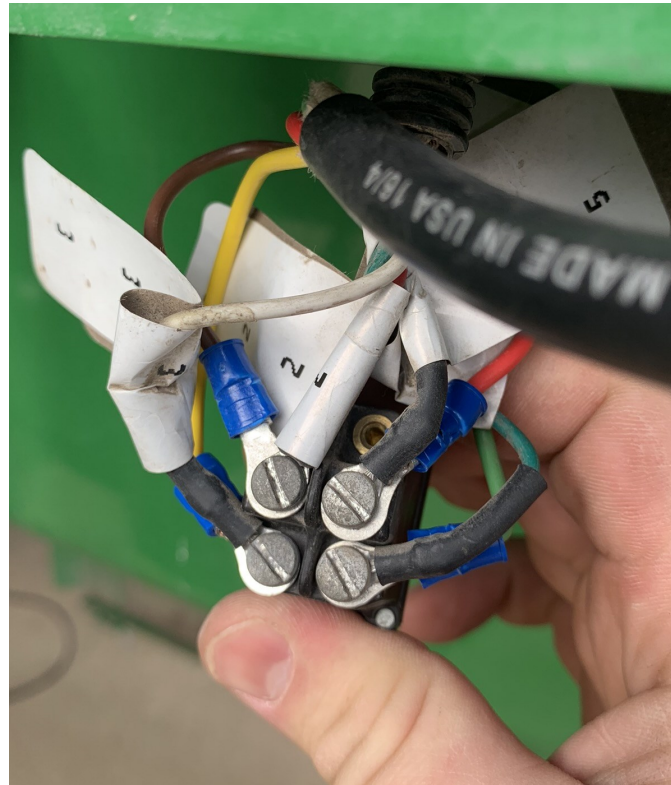


Figure 28

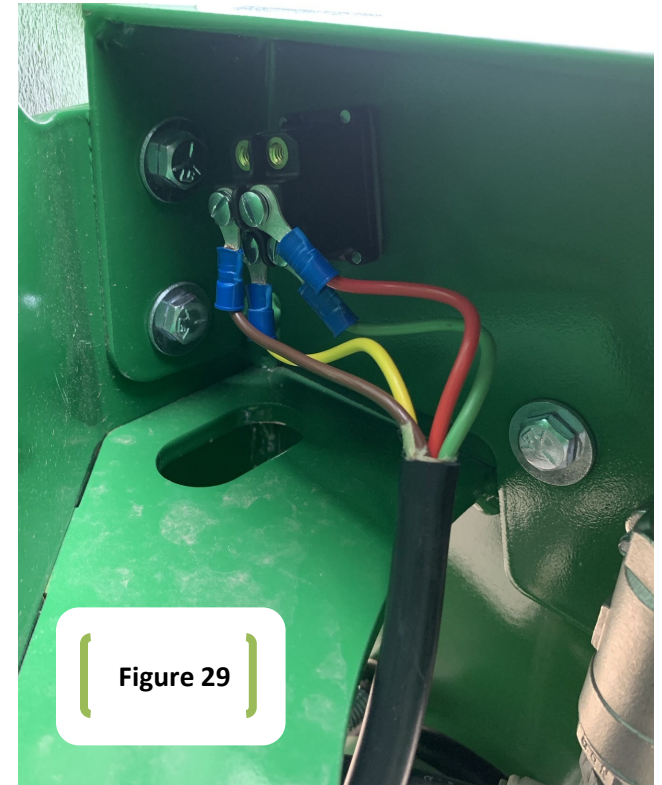


Figure 29

Refer to Figures 27—30

21. Remove the side fill “Load” switch from the sprayer panel.
22. Crimp the new terminal rings on the provided wires and connect the new ends to the occupied terminals. Take note which color goes to which terminal.
23. In the front, screw the same color wire to the same terminal on the new switch provided.
24. Insert the new switch into the mount bracket (LANFF405).
25. Install sticker by switch.

Figure 30



Kit Installation

Refer to Figures 31 & 32

26. Install the 3.5" hose clamp (LANHPXMT) around the 54" hose section, the air line and the wire cable.
27. Bolt clamp to the mount bracket (LANFF408) and bolt the mount to the boom rest base. Use three 3/8" x 1" hex bolts (LAN18A00), flat washers (LAN18000) and top lock nuts (REDODTT).

For further technical assistance,

Call Lankota Inc. at:

1-866-526-5682



Shield Kit Installation - OPTIONAL



Figure 33



Figure 34

Figure 35

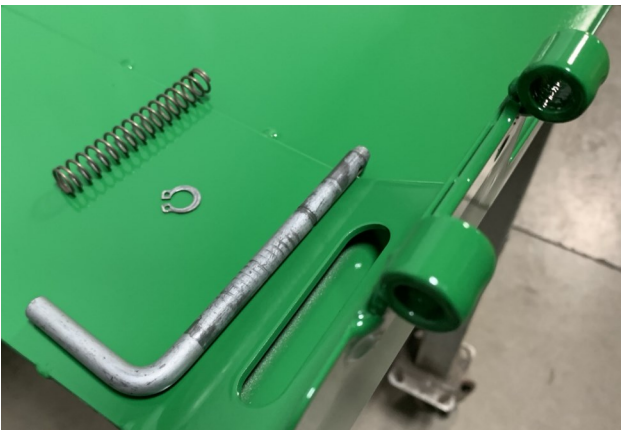
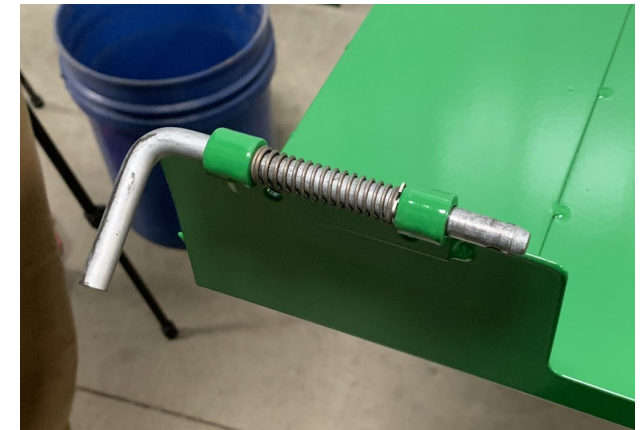


Figure 36



Figure 37



Refer to Figures 33 & 34

28. Remove the first and second shields.
29. Replace all the hangers for the second with LANFF406 on the right side and LANFF407 on the left as shown.

Refer to Figures 35—37

30. Remove the latch pins, snap rings and springs from the front shield.
31. Reinstall them in the replacement shield (LANFF403).
32. Hang the new front shield and original second shield in place. (Figures on next page.)

Shield Kit Installation - OPTIONAL

