

LAN101050S

Installation Instructions

Heavy Duty Feeder House Lift Cylinders for John Deere® 50 Series STS Combines

LANKOTA®

270 West Park Avenue

Huron, SD 57350















866-526-5682

Numerical Parts List

<i>Part Numbers</i>	<i>Description</i>	<i>Quantity</i>
LAN101050SCYL	Single Cylinder	2
LAN101050CYLSTOP	Inside Stop for Heavy Duty Cylinders	1
LAN10107-0007	Bulkhead Bracket for Hose Kit	1
CABJCL-79	Lobe Knob	2
LAN1616	5/16"-18 x 1" Nylon Lock Nut	2
LAN1133	5/16"-3/4" Washer	4
REDB204	5/16"-18 x 1" G5 Hex Head Cap Screw	2
REDWL52	5/16" Lock Washer	2
LAN103020*	Hose for Heavy Duty Cylinders	2
LAN10119*	Hose Assembly	1
LAN16R6LO-S*	Tee Fitting	1
LAN0306-14*	Bulkhead Nut	1
LANFF2703-8-8-12*	Bulkhead Fitting	1
LAN6805-8-8*	90 Degree Fitting	2
LANFS6400-8-8*	3/4" Male ORFS to 3/4" Male O-Ring	2

*Included in Hose Kit

Pictorial Parts List

 <p>LAN103020 (2)</p>	 <p>LAN10119 (1)</p>	 <p>LAN16R6LO-S (1)</p>	 <p>LANFF2703-8-8-12 (1) LAN0306-14 (1)</p>
 <p>LAN6805-8-8 (2)</p>	 <p>LANFS6400-8-8 (2)</p>	 <p>LAN101050SCYL (2)</p>	 <p>LAN10107-0007 (1)</p>
 <p>LAN101050CYLSTOP (1)</p>	 <p>LAN1616 (2)</p>  <p>LAN1133 (4)</p>  <p>REDB204 (2)</p>	 <p>CABJCL-79 (2)</p>	 <p>REDWL52</p>

Note:

All Lankota feeder house lift cylinders are to be installed with Lankota cylinder hose kits and heavy duty cylinder safety stops.

Preparation

- 1.1 If header is installed on combine, remove the head from combine.
- 1.2 Properly support feeder house with blocks or other adequate equipment to avoid movement of feeder house during removal and installation of lift cylinders.
- 1.3 Shut off engine, set parking brake and remove key from ignition.

Refer to Figure(s) 1.1 & 1.2

1.4 Remove oil lines attached to each cylinder. Cap ends of hoses to avoid oil contamination and excessive oil loss.

1.5 Remove cylinder pins from feeder house end of cylinders.

1.6 Remove pins from frame end of cylinders.



Figure 1.1



Figure 1.2

Refer to Figures 1.3 & 1.4

- 1.7 Remove cylinders from combine. Also remove the feeder house safety stop on the left hand cylinder at this time.
- 1.8 Install new cylinders (LAN101050SCYL) using original hardware removed in steps (1.6 & 1.7), install frame end of cylinders first.
- 1.9 Install feeder house end of cylinders.

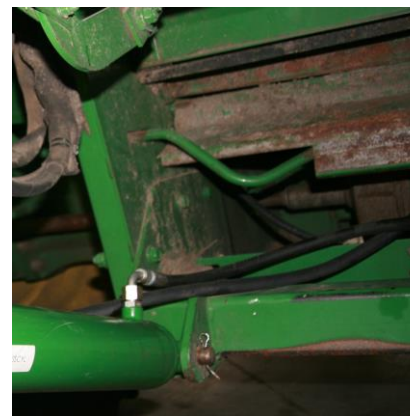


Figure 1.3

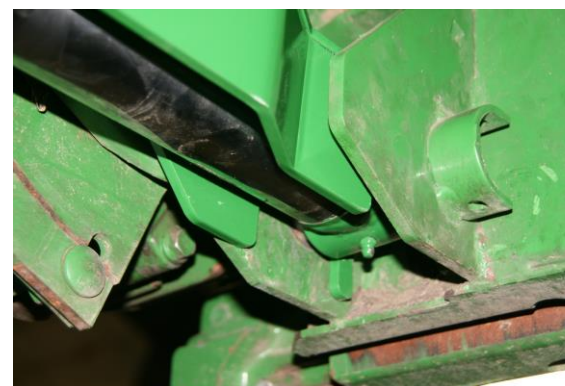


Figure 1.4

Refer to Figure 1.5

- 1.10 Install new straight O-ring hydraulic fittings (LANFS6400-8-8) to the frame side (pressure) of the cylinders.
- 1.11 Install new 90 degree hydraulic fittings (LAN6805-8-8) to the feeder house side (return) of the cylinders. Position these fittings to face back towards the combine, straight down the cylinder.
- 1.12 Attach original pressure hoses to the cylinders. Attach new hydraulic hoses (LAN103020) to the return ports on the feeder house side of the cylinders.



Figure 1.5

Figure 1.6

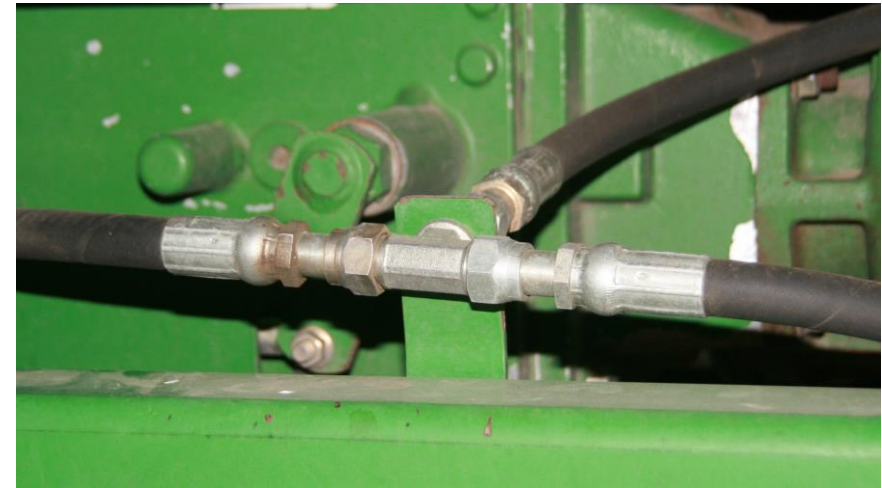


Figure 1.7



Refer to Figures 1.6 & 1.7

- 1.13 Remove existing pressure hose from mounting bracket on combine axle. Mount (LAN10107-007) mounting bracket to the mounting bracket on the combine by running bulkhead "T" fitting (LANFF2703-8-8-12) through both mounting brackets and securing with bulkhead nut (LAN0306-14). Reattach factory pressure hose to bulkhead "T" fitting.
- 1.14 Attach return line hoses (LAN103020) to "T" fitting (LAN16R6LO-S).
- 1.15 Attach (LAN10119) return line hose to large bulkhead fitting (LANFF2703-8-8-12).

Figure 1.8

Refer to Figures 1.8 & 1.9

1.16 Locate reel return line union (located behind left front tire) shown below in Figure 1.8. Uncouple union and insert fitting (LAN16R6LO-S). Attach hose (LAN10119) to this "T" fitting and tighten. Tighten all connections at this time.



Figure 1.9



Refer to Figures 1.10 & 1.11

- 1.17 Affix the cylinder safety stop (LAN101050CYLSTOP) to the ladder using one pre-existing hole shown in Figure 1.11. Use one bolt (REDB204) with washers (LAN1133) on each side of the step frame and a lock nut (LAN1616). (Run the bolt from the inside of the ladder out and tighten nut. Clamp the top of the stop to the ladder. Mark and drill a 5/16" hole for the top hole. Install bolt as instructed in previous step.) Mount safety stop to ladder and secure with (CABJCL-79) threaded knobs.
- 1.18 Install safety stop as shown in Figure 1.11 whenever working under the feeder house or head. Cycle feeder house up and down numerous times to bleed all air from the system.



Figure 1.10



Figure 1.11

For further Technical Information, contact Lankota Inc. at 1-866-526-5682