

LANTC18216

Installation Instructions

Lankota Tow Cable Kit for 70 Series, S Series & S7 Series Combines

LANKOTA®

270 West Park Avenue

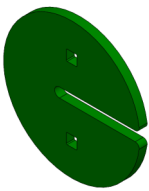

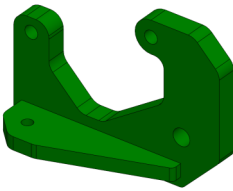
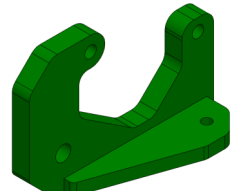



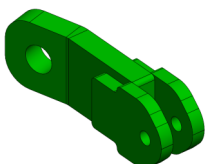
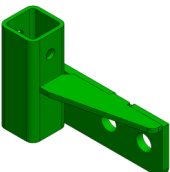
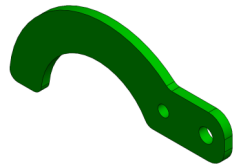
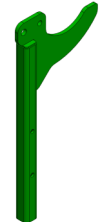


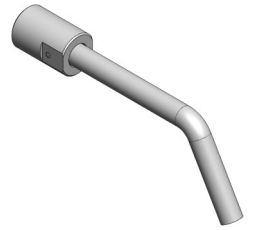

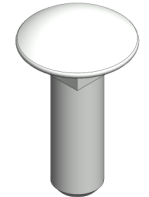

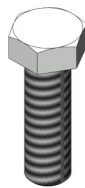






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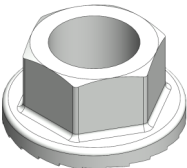






Numerical Parts List

Part Numbers	Description	Qty
LANTC156	Chain Mount Plate	2
LANTC160TR	Tow Cable Assembly	1
LANTC161	Cable Attachment Left Mount	1
LANTC161M	Cable Attachment Right Mount	1
LANTC162	Cable Shackle Insert	4
LANTC178	1/2" Rear Cable Support Chain	1
LANTC179	Chain Mounting Bracket	2
LANTC182	Chain Clevis	1
LANTC185	Cable Stow Bracket	1
LANTC186	Cable Stow Latch	1
LANTC187	Cable Stow Hook	1
LANTC189	Cable Stow Spacer	2
LANTC208	1 1/4" Shackle	2
LANSS704	Twist Lock Pin	1
LAN18000	3/8" Flat Washer	4
LAN204K	5/16" x 1" Carriage Bolt	4
LAN26000	5/8" Flat Washer	2
LAN26B00	5/8" x 2" Gr. 5 Hex Bolt	1
LANF-FW-M24	M24 Flat Washer	4
REDB308	3/8" x 2" Gr. 5 Hex Bolt	1
LANFB312	3/8" x 3" Gr. 5 Hex Bolt	1
LANFB824	3/4" x 6" Gr. 5 Hex Bolt	2
LANFE571	3/4" x 7 Gr. 8 Hex Bolt	1
LANFJ8J6	M24 x 140 Gr. 10.9 Hex Bolt	4
LANFR3MR	3/4" x 8" Gr. 8 Hex Bolt	2
LANFWS58	3/4" SAE Flat Washer	11
LANNAS2	5/16" Serr Flange Nut	4
RED0DTT	3/8" Gr. 5 Top Lock Nut	2
REDKRJF	5/8" Gr. 5 Top Lock Nut	1
REDKRJG	3/4" Gr. 5 Top Lock Nut	5
REDWU58	3/4" Flat Washer	4
LAN8RTC011	1/4" Center Cable Support Chain	1
LANFX3KX	3/4" x 9 1/2" Hex Bolt	2

Pictorial Parts List

					
LANTC156 (2)	LANTC160TR (1)	LANTC161 (1)	LANTC161M (1)	LANTC162 (4)	LANTC178 (1)
					
LANTC179 (2)	LANTC182 (1)	LANTC185 (1)	LANTC186 (1)	LANTC187 (1)	LANTC189 (2)
					
LANTC208 (2)	LANSS704 (1)	LAN18000 (2)	LAN204K (4)	LAN26000 (2)	LAN26B00 (1)
					
LANF-FW-M24 (4)	REDB308 (1)	LANFB312 (1)	LANFB824 (2)	LANFE571 (1)	LANFJ8J6 (4)

Pictorial Parts List

					
LANFR3MR (2)	LANFWS58 (11)	LANNAS2 (4)	RED0DTT (2)	REDKRJF (1)	REDKRJG (5)
					
REDWU58 (4)	LAN8RTC011 (1)	LANFX3KX (2)			

Preparation

1. Remove head from combine
2. Set the parking brake on the combine.
3. Turn off the combine engine and remove the key.

Kit Installation

Refer to Figures 1 & 2

1. Loosen and remove the axle bolts (one from the front side of the axle, one from the back side of the axle) for the cable mount to be attached. Note: The nuts and washers will be re-used.



Figure 1



Figure 2

Kit Installation

Refer to Figures 3 - 5

2. Attach the mount (LANTC161) with the M24 X 140 bolts, washers and nuts with the lower horizontal plate facing toward the center of the combine.
3. Repeat Steps 1 & 2 on the opposite side of the combine.
4. Position the cable assembly (LANTC160TR) under the combine with the two longer legs near the previously installed cable mounts (LANTC161 & LANTC161M) and the shorter leg at the rear of the combine.
5. Install shackle (LANTC208) on the cable ends of both the long legs of the cable assembly.

Figure 3



Figure 4



Figure 5

Kit Installation

Refer to Figures 6 - 7

6. Attach the cable ends to the mounting brackets (LANTC161 & LANTC161M) with the shackles (LANTC208), cable shackle insert (LANTC162), 3/4" x 6" Gr. 5 bolts (LANFB824), washers (REDWU58), and top lock nuts (REDKRJG). **The original shackle pin is not used**

NOTE: Do not over-tighten. The shackle needs to be able to rotate freely. If the shackle cannot be rotated by hand, loosen the nut slightly until it can.

7. Place a stool under the D-ring in the cable assembly or pull the slack out of the assembly by pulling on the short cable eye with a forklift, atv, etc. This will help for tensioning the cable assembly later.



Figure 6



Figure 7

Kit Installation

Refer to Figures 8 - 9

8. Attach the clevis (LANTC182) to the 1/2" chain (LANTC178) with a 3/8" x 2" Gr. 5 bolt (REDB308), washers (LAN18000) and a top lock nut (RED0DTT).
9. Bolt the clevis/chain assembly to the rear axle on the combine using the outer most set of open holes. Shown in Figure 9, the outer axle is in the upper position on the inner axle so the lower open holes are used. If the axle is in the lower position, the upper open holes can be used.



Figure 8



Figure 9

Kit Installation

Refer to Figures 10 - 11

10. Attach the clevis (LANTC182) through the cable stow bracket (LANTC185) with a 3/4" x 8" bolt (LANFR3MR), 3/4" SAE washers (LANFWS58) and 3/4" top lock nut (REDKRJG). Use a 3/4" x 7" bolt through the other hole in the cable stow bracket.

NOTE: For 70 Series Combines (Figure 10) - Attach the cable stow bracket and clevis on the passenger side in front of the rear axle to clear the plastic discharge chute above, when the axle rotates.

For S-Series Combines (Figure 11) - Attach the cable stow bracket on the back of the rear axle on the driver side. Attach the clevis on the front side of the axle.

In both cases, be sure the cable stow system does not interfere with hoses, covers, etc. when the rear axle pivots.



Figure 10



Figure 11

Kit Installation

Refer to Figures 12 - 13

10. Continued...

NOTE: For S-Series Combines - If the combine is also equipped with a hitch (Figure 12), attach the cable stow bracket (LANTC185) to the back side of the axle on the passenger side using two spacers (LANTC189) shown in Figure 13. Attach the clevis (LANTC182) on the front side of the axle and use 3/4" x 9 1/2" hex bolts (LANFX3KX) instead, to bolt through all parts.



Figure 12

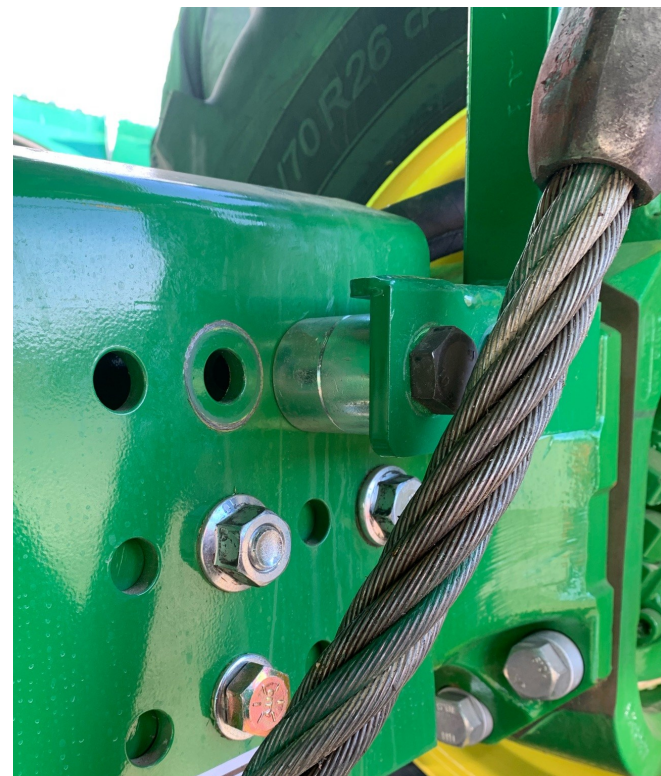


Figure 13

Kit Installation

Refer to Figures 14 - 15

11. Feed the 1/2" chain (LANTC178) through the D-ring in the cable assembly (LANTC160TR). Leave the 3/4" clevis bolt slightly loose (this will be tightened later) so the clevis can pivot parallel with the chain once tight.
12. With the cable assembly drawn tight or resting on a stand, pull the opposite end of the chain toward the furthest open hole on the front side of the rear axle. Mark the desired chain link that would reach the open hole on the axle while keeping the cable assembly tight (off the ground).



Figure 14



Figure 15

Kit Installation

Refer to Figures 16 - 17

13. Using a cut off grinder, cut the next chain link after the previously marked chain link.
14. Using a 3/4" x 8" bolt (LANFE571), a stack of five 3/4" SAE washers (LANFWS58) under the chain link (See Figure 16), a 3/4" top lock nut (REDKRJG) and 3/4" SAE washers on each end, attach the end of the chain to the combine axle.
15. Tighten this bolt and the clevis bolt at the other end of the chain.



Figure 16

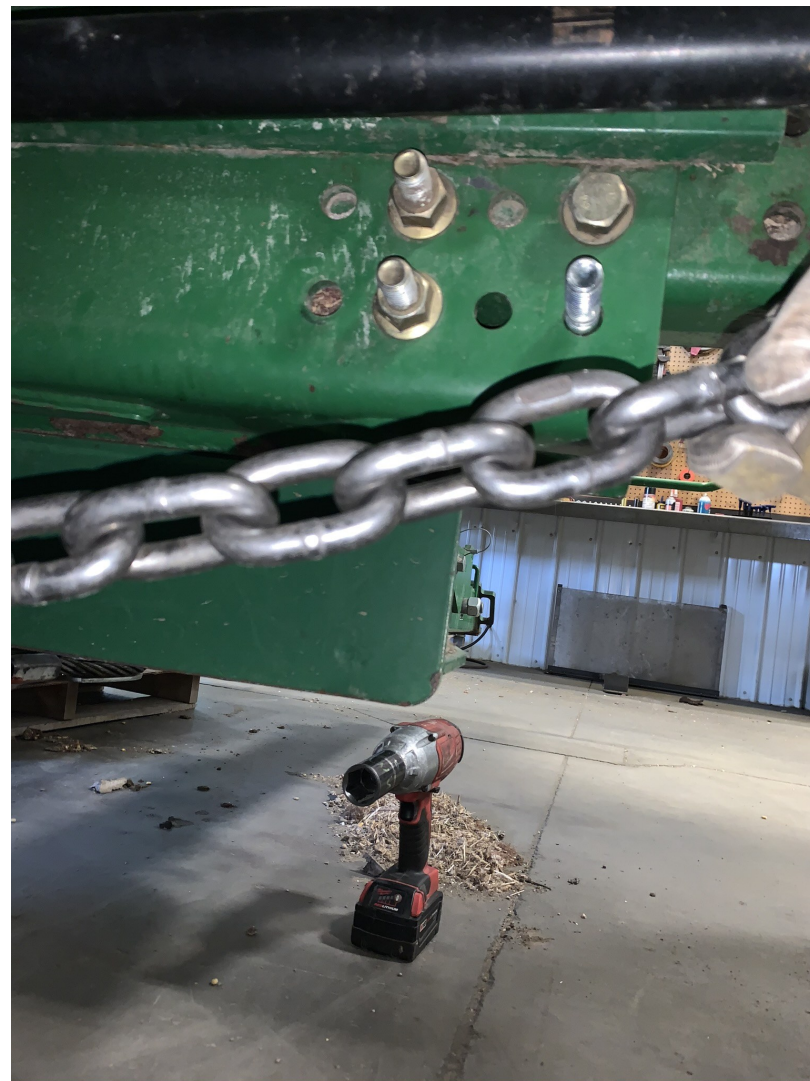


Figure 17

Kit Installation

Refer to Figures 18 - 19

16. Insert the cable stow hook (LANTC187) into the stow bracket tube (LANTC185) and attach with a 3/8" x 3" bolt (LANFB312), 3/8" washers (LAN18000) and 3/8" top lock nut (RED0DTT). If the stow bracket is attached in the lower set of axle holes, the stow hook will be in the extended position (Shown in Figure 18). If the stow bracket is attached in the upper set of axle holes, the stow hook will be in the retracted position.
17. Attach the stow latch (LANTC186) to the stow hook with a 5/8" x 2" bolt (LAN26B00), 5/8" washers (LAN26000) and 5/8" top lock nut (REDKRJF). Tighten the nut enough to let the latch freely rotate open and closed.



Figure 18

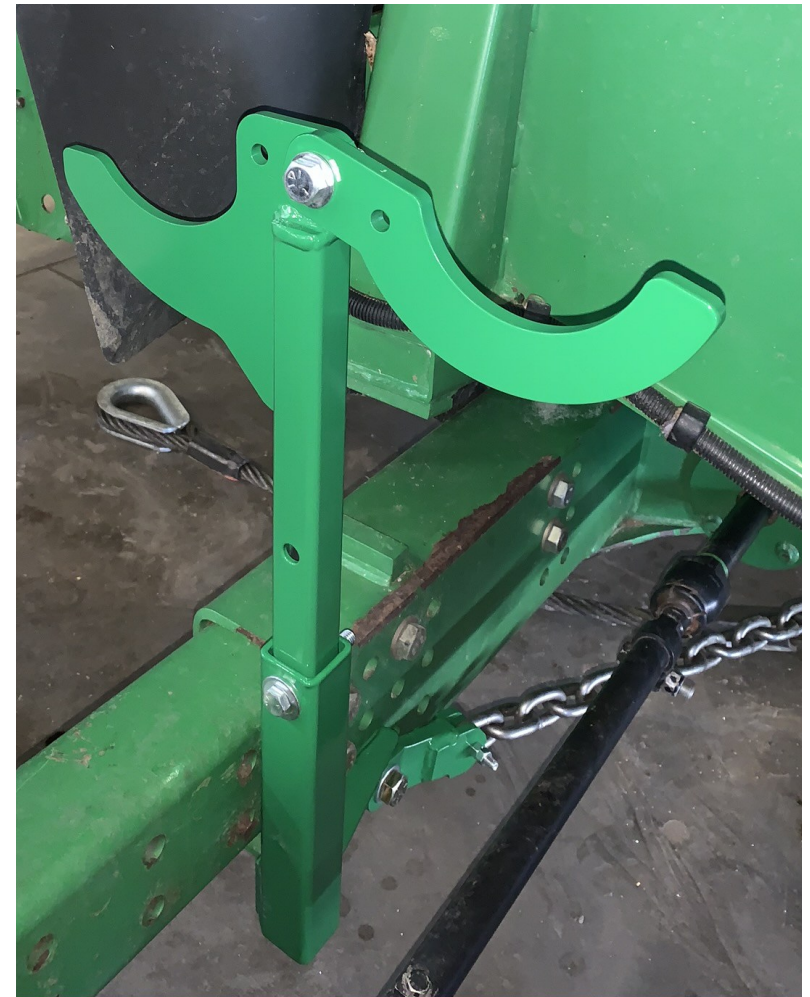


Figure 19

Kit Installation

Refer to Figures 20 - 21

18. Place the cable end in the stow hook and secure the stow latch with the 1/2" twist lock pin (LANSS704).
19. Move to the center of the combine to install the center cable support.



Figure 20



Figure 21

Kit Installation

Refer to Figures 22 - 23

20. Remove the factory nut securing the cross bracing at the center of the combine and replace the nut while attaching the chain mounting bracket (LANTC179) facing toward the center of the combine.
21. With approx. 8 links of chain (LAN8RTC011) through the chain mounting bracket, slide the chain mount plate (LANTC156) over the chain and attach the two with a 5/16" x 1" carriage bolt (LAN204K) and a 5/16" serrated flange nut (LANNAS2) on each side.



Figure 22



Figure 23

Kit Installation

Refer to Figures 24 - 25

20. Repeat the two previous steps on the opposite side of the combine while adjusting the chain to hold the cables up slightly. **Note: If a horizontal line were to be drawn between the two cable ends, the center support chain should not hold the center of the cables above that line.**



Figure 24



Figure 25



**For further technical assistance,
Call Lankota Inc. at:
1-866-526-5682**

