Before You Start

When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

IMPORTANT: Before you begin, read these instructions and check to be sure all parts and tools are accounted for. Please retain these installation instructions for future reference and parts ordering information.

Your NTS25 Reduction Bundle Retrofit Kit is exclusively designed for your Land Pride NTS25 Series No-Till Seeder. Please read these installation instructions and your NTS25 Series Operator’s Manual thoroughly before beginning. Especially read information relating to safety concerns. Also included in the Operator’s Manual is important information on operation, adjustment, troubleshooting, and maintenance for this attachment (some manual sections do not apply to all accessories).

A separate Parts Manual for replacement parts can be purchased from your nearest Land Pride dealer or downloaded free of charge from our web site at www.landpride.com. Have model and serial numbers handy when placing an order.

Manual Part Numbers:
NTS25 Series No-Till Seeder
- Operator’s Manual . . . . . . . . . . . . . . . . 313-629M
- Parts Manual . . . . . . . . . . . . . . . . . . . . 313-629P

General Information

These assembly instructions apply to the following NTS25 Series No-Till Seeder listed below:
313-931A Reduction Bundle Retrofit

Tools required:
- Safety glasses
- Work gloves
- White marking pen
- Tape Measure
- Die grinder or hacksaw
- Center punch
- Hammer
- Electric drill with 1/8” drill bit, 3/8” drill bit, & 3” hole saw
- Extension cord (if required)
- Two 9/16” box end or open end wrenches
- Spray bottle with soapy water

Further Assistance

Your dealer wants you to be satisfied with your new NTS25 Series Reduction Bundle Retrofit Kit. If for any reason you do not understand any part of this manual or are not satisfied with the service received, the following actions are suggested:

1. Discuss the matter with your dealership service manager making sure that person is aware of any problems you may have and has had the opportunity to assist you.

2. If you are still not satisfied, seek out the owner or general manager of the dealership, explain the problem and request assistance.

3. For further assistance write to:

Land Pride Service Department
1525 East North Street
P.O. Box 5060
Salina, Ks. 67402-5060 USA
E-mail address
lpservicedept@landpride.com

Assembly Instructions

All balloons in the illustrations with alphabet letters indicate existing parts and all balloons with numbers indicate new parts.

A detailed listing of new parts for this accessory kit is provided on page 10. Use the list as a checklist to inventory parts received. Please contact your local Land Pride dealer for any missing hardware.

Initial Preparations

The steps listed below must be followed before installing this kit:

1. Park tractor and implement on level, solid ground.
2. Lower implement to ground.
3. Put tractor in park or set park brake, turn off engine, and remove switch key to prevent unauthorized starting.
4. Wait for all components to come to a complete stop before leaving the operator’s seat.
5. Use steps, grab-handles and skid-resistant surfaces when getting on and off the tractor.
**Disassemble Factory Standard Set-up**

**Refer to Figure 1:**

1. With 9/16" wrench, remove 3/8" bolt, lock washer, and flat washer (B4), hand knobs (B1, B2, & B3), and chain guard (A). Keep hardware (B1, B3, & B4) and chain guard (A) to complete speed reduction modification.

2. Hand knob (B2) will no longer be needed.

**Refer to Figure 2:**

3. Remove grass seeds drive chain (not shown) from sprockets (C, D, & U). Mark and store drive chain for restoring grass seedbox to the standard drive.

4. With 9/16" wrench, remove 3/8" bolts with locknuts (E) and guard mount (F). Keep bolts and locknuts (E) for use later. Discard guard mount (F).

**Refer to Figure 3:**

5. Remove the two 3/8" bolts with lock washers and flat washers (G) and idler arm (H). Keep idler arm and removed hardware (G) for use later.

6. Remove 3/8" bolt, lock washer, and flat washer (J) and discard.

7. Remove outer 19T drive sprocket (C). Store sprocket for restoring grass seedbox to the standard drive.

**Refer to Figure 4:**

8. Remove main drive chain (L) from sprockets (M & N). Allow chain (L) to hang on sprocket (K) as it will be reused for completing speed reduction modification.

9. Remove 3/16" long spacer (Z) and idler sprocket (M). Store spacer (Z) for restoring grass seedbox back to the standard drive. Discard idler sprocket (M).
Refer to Figure 5:

10. Skip step 10 if Land Pride’s NTS seeder serial number is #1053635 or higher or if Great Plains’ serial number is #D1015L or higher. If Land Pride’s serial number is #1053634 or lower or Great Plains’ serial number is #D1014L or lower, cut a 1 1/4” x 1 3/4” notch in the front corner of the seed cup channel (P) as shown.

11. Remove sharp edges and paint.

Installation of Reduction Kit

An itemized list of parts for this kit that match balloon numbers in Figures 6-18 is provided on page 10.

Refer to Figure 6:

1. Attach transfer hole template (#30) to existing guard mounting holes with existing 3/8" locknuts and 3/8" x 3/4" bolts (E). Slide template up as far as possible and tighten locknuts to secure template.
2. Using pilot holes (Q) in template (#30), drill four 1/8" diameter starter holes through the seeder side plate.
3. Remove locknuts and bolts (E). Remove transfer hole template (#30) and discard.

Refer to Figure 7:

4. Drill the four 1/8" starter holes to 3/8" diameter holes (R) with a 3/8" drill bit.

Refer to Figure 8 & Figure 28 on page 10:

5. Attach new guard mount (#4) to existing side panel mounting holes with existing 3/8" x 3/4" bolts and locknuts (E). Tighten locknuts to 31 ft-lbs.

Refer to Figure 9:

6. Install new 17/19 dual tooth drive sprocket (#8) on existing stub shaft. Be sure the 19 tooth sprocket is placed next to the seeder.
7. Secure sprocket with the new 5/8" long sleeve (#14), flat washer (#20), lock washer (#21), and 3/8" x 3/4" bolt (#15). Tighten bolt to 31 ft-lbs.
Install Existing Main Drive Chain (L) and Idler Arm (H)

Figure 10

Refer to Figure 10:

8. Place existing main drive chain (L) over dual sprocket (#8) and dual sprocket (N) as shown. Connect roller chain links together with existing connector link.

9. Place sprocket on end of idler arm (H) above roller chain (L) and secure idler arm to its mount with existing 3/8” x 1” bolts, lock washers, and flat washers (G). Hold idler arm (H) at the correct tension for roller chain (L) and tighten bolts (G) to 31 ft-lbs.

Install New Sprocket (#26) and Reduction Drive Mount (#6)
New Guard Mount (#4) Not Shown For Clarity

Figure 11

Refer to Figure 11 & Figure 28 on page 10:

10. From the back side of bracket (#6), insert 3/8” x 2” carriage bolt (#17) through the rectangle slot.

11. Install large diameter end of idler bushing (#2) onto carriage bolt (#17).

12. Install 12 tooth idler sprocket (#26) onto idler bushing (#2).

13. Secure idler sprocket (#26) with flange lock nut (#19). Do not tighten lock nut (#19) at this time.

14. Attach reduction drive mount (#6) to the seeder using the four drilled holes in step 4 on page 4. Insert 3/8” x 1 1/4” bolts (#16) through reduction drive mount (#6) and seeder side wall. Secure bolt with lock washers (#21), and hex nuts (#4). Tighten hex nuts to 31 ft-lbs.

Install New 38 Tooth Sprocket (#9) and Spacer (#13)
New Guard Mount (#4) Not Shown For Clarity

Figure 12

Refer to Figure 12 & Figure 28 on page 10:

15. Install new 38 tooth reduction sprocket (#9) onto the lower stub shaft with sprocket teeth against reduction drive mount (#6) and hub facing out as shown.

16. Install spacer (#13) onto the lower stub shaft as shown.

Install 17 Tooth Sprocket (#1)

Figure 13

Refer to Figure 13 & Figure 28 on page 10:

17. Install New 17 tooth outer drive sprocket (#1) onto the lower stub shaft with spring lockout pin (#22) facing out as shown.

18. Secure drive sprocket (#1) with 3/8” x 3/4” bolt (#15), lock washer (#21), and flat washer (#20). Tighten bolt to 31 ft-lbs.
Install 17/38 Tooth Sprocket (#10)
Figure 14

Refer to Figure 14 & Figure 28 on page 10:
19. Install new 17/38 dual tooth upper sprocket (#10) onto the upper stub shaft with the smaller 17 tooth sprocket against reduction drive mount (#6) as shown.

Secure Sprocket (#10) and Attach Roller Chain (#25)
Figure 15

Refer to Figure 15 & Figure 28 on page 10:
20. Secure 17/38 dual tooth upper sprocket (#10) with 3/8” x 3/4” bolt (#15), lock washer (#21), and flat washer (#20). Tighten bolt to 31 ft-lbs.
21. Attach new 48 link chain (#25) to the 17 tooth upper sprocket (#10) and 38 tooth lower reduction sprocket (#9) as shown.

Attach New Roller Chain (#24)
Guard Mount (#4 in Figure 8) Not Shown For Clarity
Figure 16

Refer to Figure 16 & Figure 28 on page 10:
22. Attach new 72 link chain (#24) to upper 38 tooth sprocket (#10), lower existing sprocket (S), and new 12 tooth idler sprocket (#1) as shown.
23. Adjust idler sprocket (#1) as needed to tension chain (#24). Hold sprocket (#1) to maintain chain tension and tighten 3/8" lock nut (#19) to 31 ft-lbs.

Attach New Roller Chain (#23)
Guard Mount (#4 in Figure 8) Not Shown For Clarity
Figure 17

Refer to Figure 17 & Figure 28 on page 10:
24. Attach new 58 link chain (#23) to outer drive sprocket (#1), seed cup drive sprocket (T), and agitation drive sprocket (U).
Modify Existing Chain Guard (A) 
Figure 18

Refer to Figure 18 & Figure 28 on page 10:

25. Lay guard (A) face up on a flat surface as shown.

26. Lay 3-hole template (#31) on top of the guard with the straight side on the left and holes (V & W) align with existing holes in guard (A). Clamp template to guard (A).

27. With a 3" hole saw, cut hole (X) through guard (A).

28. Remove template (#31) and deburr any rough edges of the hole smooth to help protect against cuts from steel edges.

29. Install “Reduction Lock In/Out” decal (#28) just right of the newly drilled 3" hole (X) as shown in Figure 20.


30. Cut a piece of paper (#32) into a 1 7/8" x 10 15/16" rectangle. Paper not included with Kit.

31. Rotate guard up vertically so that hand knob holes (B1, B2, & B3) are on top as shown and in Figure 1 on page 2.

32. Clip paper (#32) to the top side of guard (A). See note below for location of paper.

NOTE: The long edge of the paper should be flush with the back edge of the guard and left end of the paper should be 3 3/16" from hand knob hole B1 as shown in Figure 19. The paper should cover about 70% of hand knob hole (B2). See also location of cutout hole for guard (#7) in Figure 20.

33. Make sure the paper lays flat against the upturn curve in the guard. Outline the paper edge with a white pin.

34. Remove paper (#32) from guard (A).

35. Cut guard (A) along the white line. When finished, the guard should have a cutout to fit around guard (#7) as shown in Figure 20.

Modify Existing Chain Guard (A) 
Figure 19

Refer to Figure 19:

30. Cut a piece of paper (#32) into a 1 7/8" x 10 15/16" rectangle. Paper not included with Kit.

31. Rotate guard up vertically so that hand knob holes (B1, B2, & B3) are on top as shown and in Figure 1 on page 2.

32. Clip paper (#32) to the top side of guard (A). See note below for location of paper.

NOTE: The long edge of the paper should be flush with the back edge of the guard and left end of the paper should be 3 3/16" from hand knob hole B1 as shown in Figure 19. The paper should cover about 70% of hand knob hole (B2). See also location of cutout hole for guard (#7) in Figure 20.

33. Make sure the paper lays flat against the upturn curve in the guard. Outline the paper edge with a white pin.

34. Remove paper (#32) from guard (A).

35. Cut guard (A) along the white line. When finished, the guard should have a cutout to fit around guard (#7) as shown in Figure 20.

Install New Chain Guard (#7) & Modified Chain Guard (A) 
Figure 20

Refer to Figure 20 & Figure 28 on page 10:

36. Align upper hole in guard (#7) with hole in upper existing guard mount (Z) and lower hole with hole in guard mount (#4). See Figure 28 on page 10 for illustration of lower guard mount (A) aligning with guard (#7).

37. Secure guard (#7) and existing guard (A) with hand knobs (B1 & B3). Hand tighten knobs.

38. Secure bottom of guard (A) with existing 3/8" x 3/4" bolt, lock washer, and flat washer (B4). Lock washer is positioned between bolt head and flat washer. Tighten bolt to 31 ft-lbs.
Assembly Instructions

Revert Reduction Drive to Factory Standard

Refer to Figure 28:

1. With 9/16" wrench, remove 3/8" bolt, lock washer, and flat washer (B4), hand knobs (B1 & B3), chain guards (A & #7).

2. Remove chain (#23). Store chain in a secure dry location for converting standard drive back to the reduction drive.

NOTE: Some figures may not illustrate reduction drive mount (#6) with sprockets and chains. This is because the pictures were taken during installation of the reduction drive. Only remove chains and sprockets mentioned in the following steps to revert reduction drive back to factory standard.

3. Remove bolt (#15), lock washer (#21), flat washer (#20) and 5/8" long sleeve (#14). Store sleeve (#14) for converting standard drive back to the reduction drive. Keep hardware (#15, #21, & #20) for step 5 below.

4. Slide factory stored 3/16" long spacer (Z) onto the stub shaft.

5. Slide factory stored 19T drive sprocket (C) with lockout pin (C1) facing out onto the stub shaft with spacer (Z) and dual sprocket (#8) behind. Secure sprocket (C) with 3/8" bolt (#15), lock washer (#21), and flat washer (#20). Tighten bolt to 31 ft-lbs.

6. Attach factory stored 56 link grass seeds drive chain (not shown) to sprockets (C, D, & U).
Install Chain Guard (#7)
Figure 27

Refer to Figure 27 & Figure 28 on page 10:

7. Secure guards (#7 & A) with hand knobs (B1 & B3). Hand tighten knobs.
8. Secure bottom of guard (A) with existing 3/8" x 3/4" bolt, lock washer, and flat washer (B4). Lock washer is positioned between bolt head and flat washer. Tighten bolt to 31 ft-lbs.
## Listing of Parts

**Kit No. 313-931A**

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**Reduction Bundle Retrofit**

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**Templates & manual not shown in illustration below**

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**Figure 28**