Pre-Delivery Manual
UD2600, UD3000, and UD3300
26-, 30-, and 33-Foot Ultra Disk™

Read the operator manual entirely. 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!

Illustrations may show alternate widths and/or optional equipment not supplied with ordered unit.
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Important Safety Information

Look for Safety Symbol
The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

Be Aware of Signal Words
Signal words designate a degree or level of hazard seriousness.

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

Prepare for Emergencies

▲ Be prepared if a fire starts.
▲ Keep a first aid kit and fire extinguisher handy.
▲ Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.

Use Adequate Lifting Means

The frame sections and gangs of this machine are extremely heavy. If using multiple lifters, make sure each is rated for at least its share of the load.
Be Familiar with Safety Decals

▲ Read and understand the “Safety Decals” topic in the Operator manual.
▲ Read all instructions noted on the decals.
▲ Keep decals clean. Replace damaged, faded and illegible decals.

Wear Protective Equipment

▲ Wear clothing and equipment appropriate for the job.
▲ Prolonged exposure to loud noise can cause hearing impairment or loss. Wear suitable hearing protection such as earmuffs or earplugs.
▲ Avoid wearing entertainment headphones while operating machinery. Operating equipment safely requires the full attention of the operator.

Avoid High Pressure Fluids

Escaping fluid under pressure can penetrate the skin, causing serious injury.

▲ Avoid the hazard by relieving pressure before disconnecting hydraulic lines.
▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
▲ If an accident occurs, seek immediate medical assistance from a physician familiar with this type of injury.

Use Safety Lights and Devices

Slow-moving tractors and towed implements can create a hazard when driven on public roads. They are difficult to see, especially at night.

▲ Use flashing warning lights and turn signals whenever driving on public roads.

Use lights and devices provided with implement.

Keep Riders Off Machinery

Riders obstruct the operator’s view. Riders could be struck by foreign objects or thrown from the machine.

▲ Never allow children to operate equipment.
▲ Keep all bystanders away from machine during operation.
Check for Overhead Lines
The Ultra Disk™ requires at least
UD2600: 13 feet 8 inches (4.2 m)
UD3000 and UD3300: 15 feet (4.6 m)
vertical clearance in transport. Contacting overhead electrical lines can introduce lethal voltage levels on Ultra Disk™ and tractor frames. A person touching almost any metal part can complete the circuit to ground, resulting in serious injury or death. At higher voltages, electrocution can occur without direct line or body contact.

▲ Avoid overhead lines during folding, unfolding, transport and parking.

Shutdown and Storage
▲ Lower Ultra Disk™, put tractor in park, turn off engine, and remove the key.
▲ Secure Ultra Disk™ using blocks and supports provided.
▲ Detach and store Ultra Disk™ in an area where children normally do not play.

Practice Safe Maintenance
▲ Understand procedure before doing work. Use proper tools and equipment. Refer to this manual for additional information.
▲ Work in a clean, dry area.
▲ Lower the Ultra Disk™, put tractor in park, turn off engine, and remove key before performing maintenance.
▲ Make sure all system pressure is relieved.
▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on Ultra Disk™.
▲ Inspect all parts. Make sure parts are in good condition and installed properly.
▲ Remove buildup of grease, oil or debris.
▲ Remove all tools and unused parts from Ultra Disk™ before operation.
Safety At All Times
Thoroughly read and understand the instructions in this manual before operation. Read all instructions noted on the safety decals.

▲ Be familiar with all Ultra Disk™ functions.
▲ Operate machinery from the driver’s seat only.
▲ Do not leave Ultra Disk™ unattended with tractor engine running.
▲ Do not dismount a moving tractor. Dismounting a moving tractor could cause serious injury or death.
▲ Do not stand between the tractor and Ultra Disk™ during hitching.
▲ Keep hands, feet and clothing away from moving parts.
▲ Watch out for wires, trees, etc., when folding and raising Ultra Disk™. Make sure all persons are clear of working area.
Introduction

Great Plains welcomes you to its growing family of new product owners. The 26-, 30-, and 33-Foot Ultra Disk™ (UD2600, UD3000, and UD3300) has been designed with care and built by skilled workers using quality materials. Proper setup, maintenance, and safe operating practices will help you get years of satisfactory use from the machine.

Description of Unit

The Ultra Disk™ is a 3-section pull-type primary tillage implement. The maximum unfolded span with rolling baskets attached is:

- UD2600: 29 feet 8 inches (9.1 m)
- UD3000: 32 feet 3 inches (9.8 m)
- UD3300: 35 feet 11 inches (10.9 m)

See the Operator manual for full specifications.

Intended Usage

Use the Ultra Disk™ for primary and secondary tillage. Do not modify the Ultra Disk™ for use with attachments other than Great Plains options and accessories specified for use with the UD2600, UD3000 and UD3300 implement.

Using This Manual

This manual was written to help you assemble and prepare the new machine for the customer. The manual includes instructions for assembly and setup. Read this manual and follow the recommendations for safe, efficient and proper assembly and setup.

An Operator and Parts manual are also provided with the new machine. Read and understand “Important Safety Information” and “Operating Instructions” in the Operator manual before assembling the machine. Refer to the Parts manual for proper part identification. As a reference, keep the Operator and Parts manual on hand while assembling.

The information in this manual is current at printing. Some parts may change to assure top performance.

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Definitions

The following terms are used throughout this manual. Right-hand and left-hand as used in this manual are determined by facing the direction the machine will travel while in use unless otherwise stated. An orientation rose in some line art illustrations shows the directions of: Up, Back, Left, Down, Front, Right.

NOTICE

A crucial point of information related to the current topic. Read and follow the directions to remain safe, avoid serious damage to equipment and ensure desired field results.

Useful information related to the preceding topic.
Assembly and Setup Assistance

Pre-Delivery, Operator and Parts manuals are available on the Great Plains web site, in PDF form, at no charge.

To order additional printed copies of Pre-Delivery, Operator or Parts manuals, write to the following address. Include model numbers or manual part numbers (see page 5) in all correspondence.

If you do not understand any part of this manual or have assembly or setup questions, assistance is available.

Further Assistance

For additional help with understanding these assembly instructions or for any other assembly or setup related questions, please contact our service department at the following address:

Great Plains Service Department
1525 E. North St.
P.O. Box 5060
Salina, KS 67402-5060

Or call us at (800) 270-9302 to speak over the phone with a service representative.

Copies of this machine’s operator manual are available by mail or online. Please visit www.greatplainsag.com and follow the product link for information on your machine, or use the QRC code on the inside of the cover to view our publications store.
Preparation

Step-by-step instructions for assembling the implement begin in the next section of the manual. Before commencing work, review the Tools Required and Pre-Assembly Checklist to make sure you have all necessary parts and equipment.

The implement is shipped via flat bed truck. It is the dealer’s responsibility to unload the new machine. Unload all equipment before beginning assembly.

**NOTICE**

Do not attempt any assembly work while the implement is on the truck.

The general sequence is:

**Assembly**
1. Unload frame sections from truck.
2. Assemble mainframe.
3. Install the tongue.
4. Charge and bleed hydraulic system.
5. Unstack wings.
6. Connect wings.
7. Install harnesses and lights.

**Setup**
1. Install options.
2. Close out

**Tools Required**

- basic hand tools, including torque wrench
- mobile lifter or overhead hoist with 12,000 pound (5500 kg capacity)
- 13 gallons hydraulic oil
- tractor with 2 to 4 QD remote pairs or other suitable hydraulic power source

**Pre-Assembly Checklist**

1. Read and understand “Important Safety Information” on page 1 before assembling.
2. Have at least two people on hand while assembling.
3. Make sure the assembly area is level and free of obstructions (preferably an open concrete area).
4. Have all major components accounted for.
5. Have all fasteners and pins shipped with implement.
6. Have a copy of the implement Parts Manual on hand. If unsure of proper placement or use of any part or fastener, refer to the parts manual. Refer to “Document Family” on page 5 for the part number of the Parts Manual.
7. Check that all working parts are moving freely, bolts are tight, and cotter pins are spread.
8. Check that all safety labels and reflectors are correctly located and legible. Replace if improperly located or damaged. Refer to Safety Decals, in the “Important Safety Information” section of the implement Operator’s Manual.
9. Inflate tires to recommended pressure as listed on the “Tire Inflation” on page 34.
10. Tighten wheel bolts as specified on “Torque Values Chart” on page 33.
Shipping and Unloading

What’s On The Truck
Items that are individually unloaded include:

- Ultra Disk™ mainframe
- Ultra Disk™ wings
- Ultra Disk™ center brace bar
- Ultra Disk™ wing brace bars
- Ultra Disk™ depth stop tube
- Ultra Disk™ tongue
- Finishing attachments
- Miscellaneous crate
- Zero or more pallets or crates with gauge wheels

Shipment Inventory
Verify the implement serial number of your order confirmation documents with the markings on major sub-assemblies and crates.

⚠️ The truck may contain shipments other than yours. Confirm items to be unloaded with driver.

Unloading
Location Requirements

1. Determine a location for machine assembly. There must be ample space for mobile lifters to deliver and position the wings, vertical space for fold testing, and hitch space to attach a towing vehicle for lift test as well as tow-away on completion.

   The unfolded widths are:
   - UD2600: 30 feet (9.1 m)
   - UD3000: 33 feet (10.1 m)
   - UD3300: 36 feet (11.0 m)

   The vertical space for fold testing is 15 feet (4.6 m).

2. Plan the unload, based on the lifters available, and the order of large assemblies on the truck.

   It is usually easiest to unload from trailer back to front.

3. If lifters are not mobile, or if using facing forklifts, plan to have the driver pull the trailer out from under each lifted load. Lift for 12 inches (300 mm) clearance.
Unload Smaller Items First

Unload crates, pallets, options and attachments first, spotting them well clear of the assembly area.

Unload Wings

Each wing may be removed as an assembly from the truck. If heavy fork lift or two fork lifts are available the machine may be lifted off the truck before assembling rest of machine.

1. Double-check that all chains and tie-down straps have been released and stowed.
2. Set parking brake on tractor and trailer.
3. Slowly lift the Ultra Diskoff trailer bed using two fork lifts.
4. Stop lifting about 12” above the bed.
5. Have the truck driver slowly pull the trailer straight out from under the Ultra Disk.
6. Making sure to keep level from front to back and side to side, slowly lower the Ultra Disk.
7. Slowly lower Ultra Disk until it is resting on the shipping stands.

Hitch will be shipped with hoses and tractor lead attached. The hitch will be under the wing frames and can be unloaded after the wings.

⚠️ WARNING

Overhead Crushing Hazard:

Use an adequate lifter. The wing stack may weigh as much as 4000 pounds (1700 kg).

Keep all non-essential personnel clear of the truck, lift and movement path. A swinging load can cause crushing injuries. A falling load could cause serious injury or death.

Unload the wings from the truck, and spot clear of the path from truck to assembly point.
Unload Center Section

Refer to Figure 4 (actual location of additional components on the frame bundle may vary over time)

The center section will be shipped with gangs in place and may be unloaded as one piece. Follow the same steps as unloading the wings.

**WARNING**

Overhead Crushing Hazard:
Use an adequate lifter. The center section may weigh as much as 12,000 pounds (5500 kg).

Keep all non-essential personnel clear of the truck, lift and movement path. A swinging load can cause crushing injuries. A falling load could cause serious injury or death.

Unload the center section from the truck. Spot at assembly point if possible. Lower to ground slowly, as the assembly rests on discs.

Release Truck

1. Verify that no other crates or palettes still on the track are intended for the unload machine (check serial numbers).

   ![Warning symbol]
   Shipping stands do not need to be returned to Great Plains.

2. Carefully remove bands from crates, pallets, brace bars, options and attachments.

3. Other than hoses and components attached to hoses, remove all loose components and sub-assemblies from the center section. Place them clear of the work area.

   ![Warning symbol]
   Do not disconnect any hydraulic hoses on the center section. The are intended to be routed to the wings and tongue while connected and will be connected at bulkhead fittings. Leave caps in place until connections are made.
Assembly

Install Center Brace Bar

Refer to Figure 5 (an exploded Parts manual illustration)

Disc assemblies will be installed on the front gang bar, removed from the drawing for clarity only.

4. Remove any shipping plates from the machine sections, and place sections on a level working surface before starting any assembly.

5. Secure the center brace bar to the underside of the center frame with 1 x 2½, hex bolts, lock washers and nuts at each of the four plates.

6. Attach the truss’ to the brace bar and the center frame using 3/4 x 2 hex bolts, lock washers and nuts.

Install Fold Locks

Refer to Figure 6 (an exploded Parts manual illustration)

Disc assemblies will be installed on the front gang bar, removed from the drawing for clarity only.

7. Secure the fold locks to the brace bar using 3/4 x 4½ hex bolts, lock washers and nuts. The fold locks line up with the round holes on either side of the brace bar.
Install Down-Pressure Valve
*Refer to Figure 7 (also showing valves installed at later steps, for hose routing guidance)*

1. The down pressure valve (10) may be installed on to the valve bracket (11). The bracket may not have been secured in place for shipping. Secure the bracket (11) to the front brace bar, using $\frac{3}{8} \times 1\frac{3}{4}$ hex bolt. If the bracket is in place but the valve is not, use $\frac{5}{16} \times 4\frac{1}{2}$ bolt, lock washer and nut to secure to bracket.

2. The down pressure valve (10) is pre-connected to the two way valve (12) and the hydraulic hoses, that are connected to the bulkhead fittings (13). These hoses may need connected to the bulkhead fitting plate that is located on the front brace bar.

3. Hoses will be routed and secured to the hitch frame, these hoses will need to be connected to the down pressure valve (10). The extend hose (14) needs connected to the IN port with the filter (15). The retract hose (16) is connected to the T port on the same side.

Fold Hydraulic Hoses
*Refer to Figure 8 (also showing a valve installed at later steps, for hose routing guidance)*

4. On models 3000 and 3300 there will be hoses (17) that run from the bulkhead bracket to the rear double tee block. The hose that attaches to two way valve will route to the bulkhead on the right side and to the bottom of the double tee block.

5. On model 2600 there is only one set of fold cylinders so there will not be any hoses to route to the rear.
Install Depth Control Valve

Refer to Figure 9

6. The depth control valve [10] is connected to the lift hydraulics. If it has not already been installed secure it to the valve mount [11] that is located on the left side of the left truss weldment using $5/16 \times 2\text{ Gr5}$ [12] bolts and lock washers.

7. If the hoses are not already routed and attached to the depth stop valve, the hose [13] that routes from the C1 port on the counterbalance valve [14] attaches to the rear of the depth stop valve [10]. The other connects to the top bulkhead tee [15] on the bulkhead fitting bracket [16].

Install Depth Stop Tube

Refer to Figure 10 (a Parts manual illustration showing the depth stop assembly disassembled further than necessary)

8. With the bent section of the tube up, insert the straight end of the tube through the depth stop mount plate [1].

9. Secure the rear (angled) end of the tube [13] to the rockshaft arm [2], using $5/8 \times 2\frac{1}{2}$ bolt and lock nut.

Install Level Bar Linkage

Install Link H-Weldment

Refer to Figure 11 (an exploded Parts manual illustration showing some components installed later)

1. Locate the H-bracket and with the flat edges of the H-weldment facing towards the back of the machine, secure it to the brace bar using 2-clevis pins, washers and cotter pins.

Install Level Bar

2. Attach the front section of the level bar to the rear section using 2 x 1\(\frac{3}{4}\) bolts, lock washers and nuts, be sure to orient the gauge leg as close to bottom as possible. Tighten the nuts.

Hydraulic Level Link Connect

Refer to Figure 12

1. Install \(\frac{1}{16}\) inch orifice plates (196-430D) in both ports of the leveling cylinder. Install elbow fitting (811-063C) in the rod side port and the 45-degree elbow (811-690C) in the base side port.

2. Pivot the H-weldment up, bringing the pivoting tube into alignment with the level bar. Slide the level bar through the tube until the pin holes are visible.

3. Insert the gauge actuator rod through the upper gap of the H-weldment. Insert the round bar end of the hydraulic cylinder weldment into the end of the level bar and secure with pins.

4. Secure the hydraulic link plate to the pivot tube plate with bolts, lock washers and nuts.

5. As necessary, rotate the level bar assembly until the gauge lug is at bottom dead center.

6. Secure the gauge actuator rod to the gauge lug. Use a \(3\frac{3}{8} \times 1\frac{1}{4}\) bolt.

7. Use a \(\frac{1}{2} \times 2\) Gr5 nylon coated bolt and insert it through the slot in the pivoting tube and into the threaded hole in the level bar. Secure to torque spec.

Continue at "Install Tongue" on page 15.
Install Tongue

Refer to Figure 13 (an exploded Parts manual illustration showing some components installed later)

8. Bring the hitch ball joints of the hitch assembly into alignment with the truss lugs. Using one 1\(\frac{1}{4}\) washer on each side of each hitch ball joint, insert a 1\(\frac{1}{4}\) x 8 bolt to temporarily hold the hitch in position.

9. Secure the bolts with 1\(\frac{1}{4}\) nuts. Tighten only until snug. Do not tighten to torque spec.

10. Remove the tongue jack (not shown) from the storage stub on top of the tongue. Attach it to the side stub at the front of the tongue. Use the jack to assist with the link tube installation, and leave it attached to the side stub until the completed implement is towed away.

11. Tighten all truss bolts.

Tongue Leveling Tube

Refer to Figure 14

12. With the small side plate to the right, and the two tapped holes toward the ground, align the rear end of the leveling tube with the center bushings of the H-weldment. Insert 1.25 x 8.25 pin to hold in position.

13. Rotate the pin to align and end hole with the holes in the outside left end of the H-weldment bushing tube. Secure pin to tube with 3\(\frac{1}{8}\) x 2\(\frac{1}{4}\) bolt and lock nut. Tighten nut only until snug (not to torque spec).

14. Use the tongue jack to align the center bushings of the turnbuckle link with the level tube. Insert the 1\(\frac{1}{4}\) x 8\(\frac{1}{2}\) Gr8 bolt to hold position. Secure with lock nut. Tighten nut only until snug (not to torque spec).
Install Leveling Lock Valve

Refer to Figure 15

1. This valve block (4) is pre-connected to hoses for the hydraulic level system already partially installed at step 2 on page 15.

2. Align the valve block (4) against the leveling tube plate, with the 45° angled fittings down and facing to the front. Secure with ¼ x 1½ bolts and lock washers.

Figure 15
Leveling Relief Valve

TP-69239
Charge and Bleed

Charge and Bleed Fold System

1. Before charging the fold system, verify that each fold cylinder has a 1/16 inch (1.6 mm) orifice plate installed at each rod end.
2. Support the fold cylinders so that the rods cannot strike or drag on any other machine parts. Initially have the rods angled down to the clevis ends.
3. Connect the fold system to a hydraulic source. Fully Retract the cylinders. Set the source to Neutral.
4. Loosen (“crack”) the JIC fittings at all fold cylinder base ends.
5. Have one person slowly Extend the fold circuit until oil appears at a cracked fitting. Set the circuit to Neutral. Secure that fitting. Repeat this step for the remaining fitting(s).
6. Elevate the fold cylinders until the rod end hydraulic ports are higher than the base end ports.
7. Fully Extend all rods. Set the circuit the Neutral.
8. Loosen (“crack”) the JIC fittings at all fold cylinder rod ends.
9. Have one person slowly Retract the fold circuit until oil appears at a cracked fitting. Set the circuit to Neutral. Secure that fitting. Repeat this step for the remaining fitting(s).
10. Fully cycle the fold cylinders several times.

Charge Lift System

The wing lift cylinders are plumbed, but still tied to the center section at this point in pre-delivery. The lift cylinders are re-phasing and may be charged without actual bleeding.

1. Orient the wing lift cylinders so that the rods can extend and retract without striking or dragging on any other machine components.
2. Clear all persons from the machine vicinity. The center section rises during this operation.
3. Connect the lift circuit to a hydraulic source. Fully Extend the lift cylinders. Hold at fully extended for two seconds, then full Retract. Repeat this step several times.
4. Fully Extend the lift cylinders. Set the circuit to Neutral to hold at lift. Install the lock channels on the cylinder rods (see Operator manual for details).
5. Slowly Retract the lift circuit until the center section rests on the lock channels. Set the circuit to Float.

Cycle Level System

1. Before cycling the level system, verify that both cylinder ports have a 1/16 inch (1.6 mm) orifice plate installed.
2. Connect the level system to a hydraulic source. Fully Extend and Retract the circuit several times. Set the circuit to Neutral after the final Retract.

Center Section Complete

This completes mainframe assembly operations prior to wing attachment.

Installation of weights (Option) are left until after wings are complete, but prior to any finishing option. Installation of a finishing option is deferred until wings and weights are complete.

High Pressure Fluid Hazard:
The operations on this page require working near an open hydraulic system. Wear eye protection and stout gloves. Use cardboard to check for oil spray. Incorrect procedures can result in high pressure spray, which can cause serious eye injury and oil penetration of skin. If an accident occur, seek immediate attention from a health care provider who is familiar with this type on injury.
Wing Assembly

Remove Shipping Stands

Refer to Figure 16

1. Use the lifter to raise the wing until the stand bases are in loose contact with the ground, or slightly above it.
2. Remove the fasteners securing the stands to the wing. These are not reused and do not need to be returned to Great Plains.
3. Slowly lower the wing to the ground.

Connect A Wing

Start with the left wing.

Refer to Figure 17 (an exploded Parts manual illustration, depicting a left wing)

1. The hinge pins should have spiral pins installed in one end. Leave the spiral pins in. Remove and save any washers, and lock nuts on the other ends.
2. Select a wing. With the gauge wheel turnbuckle tube up, use a hoist or other lifter to bring the gang bars into alignment with the clevis ends of the mainframe tubes.

Secure the alignment by inserting pins so the spirals fit in the notches.
3. Place a washer over the rear ends of the pins. Secure each with a lock nut.
4. Repeat step 1 through step 3 for the other wing.
5. Place the proximity sensor bracket over the rear end of the pin. The break on the lower end of the bracket faces forward. The flat face of the large bracket hole aligns it with the bushing sleeve. Secure with snap ring.

6.
Connect Fold Cylinders

Refer to Figure 18

7. Make sure all cylinders not yet connected are blocked up so that extending and retracting rods cannot strike or drag on anything. Use a hydraulic source (e.g. tractor) to operate the fold circuit. Be sure to rotate cylinder rod clevis to have clevis bolt towards the ground. Position each rod clevis to align with the wing lug ①. Secure clevis with pin 64, washer and cotter pin. Tighten loosened hydraulic fittings.

Connect Wing Lift Cylinders

Start with the left wing.

Route Wing Hoses

Refer to Figure 19

1. The hydraulic hoses will already be routed on the wings and thru the hose tray. The hoses will just need to be connected at the bulkhead fittings ②.
Install Cylinder
Refer to Figure 20 (some axle components hidden for clarity)

2. Pin the base end of the cylinder under the outside wing tube. Using a 1 x 6” pin snap ring and washer on, insert the pin through the wing bracket, cylinder clevis and eyebolt. Secure with washer and snap ring.

3. Use the tractor lift circuit to align the rod end clevis with the upper axle pivot hole. Secure with a 1.0 x 6.42 pin. Secure pin with 3/8 x 2 1/4 bolt and lock nut.

4. Arrange the hoses to:
   - provide a droop through the wing fold center-line, and
   - enough slack at the wing cylinders to allow their normal pivot range during raise/lower.

5. Repeat step 2 through step 4 for the right wing.

Check Lift
1. Raise the implement. Set circuit to Neutral to hold at raised.

2. Remove the lift lock channels.

3. Fully raise and lower the implement to check circuit function and hose slack at wing cylinders.

4. Fully raise. Re-install lift lock channels.

5. Tighten bolts at wing hose clamps.
Harnesses and Lights

Route and Connect Harnesses

Refer to Figures 24 on pages 22 for larger view.

1. Connect the 6-pin end of the harness 76 to the LED module 73.
   Route forward along the hoses. Loosely secure above hose clamps with cable ties and P-clips. Do not run harnesses under hose clamps. Leave some slack at the tongue pivot, but keep the harness above the tongue.

2. Connect the 6-pin end of the light harness 76 to the LED module 73, and the other end of the LED module to the dual amber light harness 77.
   Route the 3-pin leads, and the two longer 2-pin leads along the hoses to the rear of the mainframe. Leave enough slack such that a later installation of weights will not put the harness in tension.
   Route the shorter 2-pin lead color coded yellow to the left front lighting mount plate. Route this lead on top of the frame tube, under the truss and behind any vertical weldments.

3. Route the shorter 2-pin lead color coded green to the right front lighting mount plate. Route this lead on top of the frame tube, under the truss and behind any vertical weldments.
   Connect the 2-pin leads of the fold assist harness 80 to the hitch harness 76 and to the solenoid of the down-pressure valve 70.
   Route one 4-pin lead to near each proximity sensor bracket 23 at the front wing hinge pins.

Continue on page 22.
Ultra Disk™ Harness Connections

Be sure the sensors are installed on the rear hinge of the front brace bars.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tr>
<td>70</td>
<td>810-849C FIXED BYPASS DOWN PRESS VALVE</td>
</tr>
<tr>
<td>72</td>
<td>833-623C PROXIMITY SENSOR</td>
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<tr>
<td>73</td>
<td>833-694C LIGHT HRNSS ENHANCE MODULE - LED</td>
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<td>74</td>
<td>833-696C LIGHT, RED LAMP - LED</td>
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<td>75</td>
<td>833-697C LIGHT, AMBER LAMP - LED</td>
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<td>833-701C LIGHT HARNESS LEAD W/ VALVE - LED</td>
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<tr>
<td>77</td>
<td>833-702C LIGHT HARNESS DUAL AMBER - LED</td>
</tr>
<tr>
<td>80</td>
<td>833-704C FOLD ASSIST HARNESS - LED</td>
</tr>
</tbody>
</table>

Figure 24
Harness Connections
Install Light Brackets

Refer to Figure 25

There are left hand ①, and right hand ②, light brackets, see Parts Manual 559-460P, for proper placement of light brackets. These brackets will be used on the rear of the machine with all attachment options.

1. Align the brackets with the mounting plates on the front of the center frame and on the rear attachment bar with the notch up and the arm bending to implement outside. Secure with 1/2 x 1 1/2 bolts ③ lock washers and nuts.

![Figure 25 Light Brackets](TP-62679)

Install LED Lights

Refer to Figure 26 (which also depicts the local harness routing at the light bracket)

1. Route the lead through the hole in the bracket plate. The lens assembly may face in either direction. Secure with bolts ④ and lock nuts ⑤. To avoid cracking the polymer lens base, do not exceed Grade 2 torque specification.
2. Use cable ties and p-clips to secure harnesses.
3. Repeat step 1 through step 2 for the other side.

About Rear Lights

There are left hand ①, and right hand ②, light brackets, see Parts Manual 559-460P, for proper placement of light brackets. These brackets will be used on the rear of the machine with all attachment options.
Install Proximity Sensors

First Fold

Refer to Figure 27

The implement must be hitched to a tractor, and raised with lock channels installed for these steps. Level circuit, if present is in Neutral or disconnected.

1. Verify that the wing lock pins are not in the outer lock holes (see Operator manual for details).
2. Open the wing lock valve (see Operator manual for details).
3. Clear all persons from around the implement.
4. Be aware of vertical clearance required for folding.
5. Slowly move fold circuit lever to Retract. Observe the fold operation.

Watch for leaks and make sure hoses do not get pinched during the initial unfolding process.

6. Wait for both wings to reach the fully folded position. Set the fold circuit to Neutral to hold at fold.
7. Shut down the tractor.
8. Close the wing fold lock valve.
9. Install the wing lock pins.

Install Sensors

Start with the left wing.

Refer to Figure 28

1. To install the proximity sensor, remove the outer jam nut.
2. Insert the sensor through the inner hole in the sensor bracket. Reinstall the removed jam nut to the face end of the sensor.
3. Check the gap between the face of the sensor and the wing tube. The correct gap is: \( \frac{1}{8} \) inch to \( \frac{1}{4} \) inch (3.2 to 6.4 mm)
4. To adjust the gap, loosen nuts (one on each side of the sensor bracket). Rotate nuts to achieve correct gap.
5. Re-tighten nuts to secure proximity sensor.

NOTICE

Sensor must be installed on the rear hinge of the front brace bar and gang.
Wing Gauge Wheels

Start with the either side of the implement.

Install Weldment Assembly

Refer to Figure 29 (left side view - this depicts the wheel assembly already on the gauge wheel assembly - in general it is easier to mount the wheels later, as per steps below)

The gauge wheels will come pre-assembled but will need to be installed on the wing frames and connected to the hydraulic cylinder. See parts manual 559-460P for gauge wheel assembly break down.

6. Start by installing the mounting brackets onto the frames with $\frac{3}{4} \times 2$ Gr 5 bolts, $\frac{3}{4}$ lock nuts, and nuts.

Leave mounting brackets loose until arms are attached to frame and hydraulic cylinder.

7. Install the gauge wheel arms into the mount, using two $1 \times 12\frac{1}{4}$ Gr. 8 Bolts flat washers, locks and nuts.

8. If the hydraulic cylinder is not already installed on the wing frame, use clevis pins 1.0 x 3.13, washer and cotter pin to attach to the eyebolt and then partially insert the eyebolt into the frame receiver tube. Add jam nuts to turnbuckle.

9. Hook the hydraulic cylinder to the gauge wheel arm with clevis pin 1.0 x 3.13, washer and cotter pin.

Mount Wheel

Refer to Figure 30

10. With the valve stem facing away from the hub, secure the wheel to the hub with the lug nuts. Tighten to 85 to 100 foot-pounds (115 to 136 N-m).

Gauge Wheel Pre-Level

Gauge wheels need to be temporarily raised to avoid interference with wing leveling.

11. Use the hydraulic cylinder to adjust the wheels so they are $\frac{1}{2}$ inch above the desired working depth from the ground.

12. Repeat step 6 through step 11 for the other side.
Option Installation

Install Weights

Optional weight sets increase the down force available to tools, and increase the weight available for transfer to wings. Each set weighs 1500 pounds (680 kg) and consists of two 750 pound (340 kg) stacks.

**WARNING**

Heavy Overhead Object and Crushing Hazards:
A slipped, swinging or falling weight can cause serious injury or death.

Use a lifter rated for at least 750 pounds.

Use separate lines for each lift point.

DO NOT USE a single looped line.

Use anchor points rated for at least 750 pounds each.

Use lines rated for at least 750 pounds each.

Secure each line to a separate weight attachment point.

Use only the lifter to coarsely position the stacks.

Keep everyone clear while lifting and positioning.

Keep hands above stacks at all times.

Place weights from front to back.

Slide each into final position before lifting the next.

Refer to Figure 31

- Use up to 2 sets of 2 weights (4 weight stacks total) in positions shown.
- Unfold implement. Lower implement to ground. Float fold circuit. Float lift circuit.
- Adjust fore/aft to take pressure off leveling link. Once pressure is off leveling link proceed.
- Remove the \( \frac{1}{2} \times \frac{3}{4} \) inch Gr 5 bolts from the level bar assembly.
- Pivot the level bar \( \mathcal{O} \) up for clearance.
- Verify that hoses will not be pinched by the weights.
- Securely attach two separate lines, each rated for at least 750 pounds (340 kg), to a similarly rated anchor point on the lifter, and to a stack lifting lug. Do not use a single looped line - it can slip or fail.
- Carefully lower each weight assembly \( \mathcal{O} \) into center frame trusses \( \mathcal{O} \).
- Slide weights \( \mathcal{O} \) as far forward as possible and install weight box stops \( \mathcal{O} \) on inside of trusses as close to weights as possible, secure with \( \frac{1}{2} \times \frac{4}{32} \times \frac{5}{4} \) U-bolt, 1/2 inch lock washers and 1/2 inch nuts.
- Torque U-bolts to 85 foot-pounds.
- Pivot level bar and the level bar spring assembly until holes in plates are aligned.
- Re-install \( \frac{1}{2} \times \frac{3}{4} \) Gr 5 bolts \( \mathcal{O} \), secure with 1/2 inch lock washers and 1/2 inch nuts.
- Torque \( \frac{1}{2} \times \frac{3}{4} \) Gr 5 bolts \( \mathcal{O} \) to 76 foot-pounds (103 N-m) to be sure bolts do not work loose and cause damage to machine.

**CAUTION**

Possible Transport Hazard:
Do not transport the updated Ultra Disk™ before verifying that the vehicle used for highway transport is still adequate for the new weight. If the towing vehicle was previously just over requirements, it may be inadequate now, increasing the risk of a serious highway accident. Your total implement weight has increased by as much as 19% (increased up to 3000 pounds or 1340 kg).
Install Attachment Bar

Refer to Figure 32

Attachment Bars

The center attachment bar is standard and installed on all machines, use the same hardware to attach the wing bars.

13. Attach the bars to the rear frame mounting plates using the \( \frac{3}{4} \times 4\frac{1}{2} \) inch U-bolts on the frame tube. Loosely secure them at first, center the bar on the mainframe, then tighten to torque spec.

Install Reel Basket

Install Attachment Arm for Basket
Install the attachment bar, per the instructions beginning on page 27.

Install Drag Arms

Refer to Figure 33

14. Use a hoist to position the arm at one of the approximate stations shown at the top of the page. Loosely secure it with \( \frac{3}{4} \times 5 \) bolts, plates, lock washers and nuts.

15. Hydraulic cylinders will be attached to the arms and the hydraulics will need routed along the frame to the rear of the tractor. See Reel Layouts starting on page 44, for correct location.

16. Repeat step 14 for all six arms.

17. Refer to page 44 (UD2600), page 46 (UD3000), or page 48 (UD3300) for precise placement. Secure nuts to Grade 5 torque spec.

Install Baskets

Refer to Figure 34 (showing left end of center section)

19. Consult page 44 (UD2600), page 46 (UD3000), or page 48 (UD3300) for basket orientation (roller bar angle to the rear at top center) and rough placement.

20. The reels will come assembled to their own mounting tubes. Lift the reel assemblies up to the drag arms and secure with 5/8 x 5 bolts, plates, lock washers and nuts.

21. Loosely attach the reels to each of the drag arms on each section. Adjust position to dimensions from page 44, page 46, or page 48. Tighten nuts to Grade 5 torque spec.

![Figure 34](TP-69247)

Center Basket, Left End

Install Coiltine Assembly

Coiltine assemblies will come with the coils already in place on the tubes and in their frames. The coiltine arms will need to be installed on to the middle bar of the frames and on the attachment bars.

Refer to Figure 35

22. Use a hoist or fork lift truck to lift the coiltine arms to the rear attachment bar, secure with 3/4 x 4 1/32 x 4 1/2 u-bolts, 3/4 lock washers and nuts. Leave u-bolts lose until in the proper location.

23. Lift the coiltine frames to the bottom of the arms and use 5/8 x 3 1/32 x 4 1/4 u-bolt, 5/8 lock washers and nuts. Check layouts for proper spacing.

24. Be sure the adjustment lever is free of obstructions.

25. Consult page 52 (UD2600), page 54 (UD3000), or page 56 (UD3300) for assembly ID and placement.

![Figure 35](TP-69248)

Center Tine, Left End
Install Packing Roller

Install Roller Brackets
See page 60 (UD2600), page 62 (UD3000), or page 64 (UD3300) for exact dimensions for bracket placement.

Install Roller Pivots for Cylinders

Refer to Figure 36

Packing Rollers will come fully assembled and will need attached to the rear attachment bars.

26. Loosely install cyl mount (11), and brackets (12) on the rear attachment bar, using 3/4 x 4 1/32 x 4 1/2 u-bolts (13), 3/4 lock washers and nuts.

27. On the wings the center bracket will be attached to the hydraulic cylinder, the center section will have 2 cylinders.

Install Roller Frames

Install Roller Frame

Refer to Figure 37 (a Parts manual illustration)

28. With the cylinder lugs (1) up. Align the frame pivots with the pivot weldments mounted on the rear attachment bar. Secure hinge points with pins (14), bolts (15) and nuts.

29. After frames have been attached to the pivot brackets, and the placement has been adjusted, tighten the u-bolts on the rear attachment bar. Verify that the remaining pivots swing freely, and secure the nuts there.

Install Cylinders

Install Center Cylinders

See parts manual and layout section of this manual for correct hydraulic cylinder placement.

Refer to Figure 38 (a Parts manual illustration)

1. These cylinders include fastening hardware.

2. With hydraulic ports facing up, secure the base end of each cylinder (16) to the pivot weldment on the attachment frame. Secure the rod end to the pivot frame lug.

3. Route hoses along the machine frame to the rear of the tractor. See page 60.
Install Roller Gangs

Install Gangs

Refer to Figure 39 (a Parts manual illustration)

4. Position the gangs, under the center pivot frame. With the scrapper bar towards the front of the machine. Center the gang with machine center-line.

5. Lift the gang 1 up to the attachment frame 2 and use u-bolts 5/8 x 6 1/32 x 4 1/2 3, lock washers and nuts to secure the bearing mounts to the frame. Do not tighten nuts.

6. Verify that the gang is on machine center-line. Tighten all nuts to torque spec.
Install Attachment Hydraulics

Refer to Figure 40
Install bracket (559-549D)  onto the valve assembly on the front brace bar tube. Mount bracket (559-549D) onto the valve bracket. Mount the relief valve (850-360C)  to bracket using two each bolts  (802-474C), lock washers (804-009C), and nuts (803-088C).

Route Hoses from Hitch to Relief Valve

Refer to Figure 41
Route hoses starting from the hitch. These hoses are identical except for the yellow hose handles, which have distinct symbols on each handle.

The retracted rod symbol is on the rod end of the retract hose. This hose routes to the elbow  into the of the top port of the relief valve 7.

The extended rod symbol is on the base end of the extend hose. Route this hose to the elbow located on the bottom side 8 of the relief valve 7.

Route the hoses under the manual pack, through the rear hitch clamps, through the turnbuckle trunnion, through the front clamps, and through the hose loop. Insert the hose handles in the caddy holes.

Route Cylinder Hoses from Relief Valve to Bulkheads

Refer to Figure 42
Route along center frame with the other hoses, lift and fold. Be sure the hoses are not in a pinch point with the weights.

Attach the hose from the C2 Port to the top 45° fitting 7 to the bulkhead fitting and to the rod ends of the hydraulic cylinders.
Charge System

- Before charging the roller hydraulics, clear all persons from the machine vicinity. The roller sections will raise during this operation.
- Connect the roller cylinders to a hydraulic source. Fully retract the roller cylinders. Hold circuit at full retract for two seconds after wing sections have fully retracted. Repeat this step several times to purge air from the lines.

Close-Out

This completes mechanical implement assembly.
1. Tighten bolts, to Grade 2 torque spec, at all hose clamps.
2. Remove any wire-secured tags with part numbers.
3. Wipe grease pencil markings from frame.
4. Raise, fold and lock implement for transport. See Operator manual for steps.
### Appendix A - Reference Information

#### Torque Values Chart

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<tr>
<td>5⁄8-11</td>
<td>130 97</td>
<td>205 150</td>
<td>285 210</td>
</tr>
<tr>
<td>5⁄8-18</td>
<td>150 110</td>
<td>230 170</td>
<td>325 240</td>
</tr>
<tr>
<td>3⁄4-10</td>
<td>235 170</td>
<td>360 265</td>
<td>510 375</td>
</tr>
<tr>
<td>3⁄4-16</td>
<td>260 190</td>
<td>405 295</td>
<td>570 420</td>
</tr>
<tr>
<td>7⁄8-9</td>
<td>225 165</td>
<td>585 430</td>
<td>820 605</td>
</tr>
<tr>
<td>7⁄8-14</td>
<td>250 185</td>
<td>640 475</td>
<td>905 670</td>
</tr>
<tr>
<td>1-8</td>
<td>340 250</td>
<td>875 645</td>
<td>1230 910</td>
</tr>
<tr>
<td>1-12</td>
<td>370 275</td>
<td>955 705</td>
<td>1350 995</td>
</tr>
<tr>
<td>11⁄8-7</td>
<td>480 355</td>
<td>1080 795</td>
<td>1750 1290</td>
</tr>
<tr>
<td>11⁄8-12</td>
<td>540 395</td>
<td>1210 890</td>
<td>1960 1440</td>
</tr>
<tr>
<td>11⁄2-6</td>
<td>680 500</td>
<td>1520 1120</td>
<td>2460 1820</td>
</tr>
<tr>
<td>11⁄2-12</td>
<td>750 555</td>
<td>1680 1240</td>
<td>2730 2010</td>
</tr>
<tr>
<td></td>
<td>890 655</td>
<td>1990 1470</td>
<td>3230 2380</td>
</tr>
<tr>
<td>13⁄8-6</td>
<td>1010 745</td>
<td>2270 1670</td>
<td>3680 2710</td>
</tr>
<tr>
<td>13⁄8-12</td>
<td>1180 870</td>
<td>2640 1950</td>
<td>4290 3160</td>
</tr>
<tr>
<td>11⁄4-6</td>
<td>1330 980</td>
<td>2970 2190</td>
<td>4820 3560</td>
</tr>
</tbody>
</table>

a. in-tpi = nominal thread diameter in inches-threads per inch
b. N m = newton-meters
c. mm x pitch = nominal thread diameter in mm x thread pitch
d. ft-lb = foot pounds

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.
Tire Inflation

<table>
<thead>
<tr>
<th>Location</th>
<th>Tire Size</th>
<th>Inflation</th>
</tr>
</thead>
<tbody>
<tr>
<td>UD2600 UD3000</td>
<td>380/55 R 16.5</td>
<td>73 psi (503 kPa)</td>
</tr>
<tr>
<td>UD3300</td>
<td>440/55 R 18</td>
<td>73 psi (503 kPa)</td>
</tr>
<tr>
<td>Wings &amp; Gauge Wheels</td>
<td>12.5L x 15 12ply</td>
<td>52 psi (368 kPa)</td>
</tr>
</tbody>
</table>

Hydraulic Connectors and Torque

Refer to Figure 43 (a hypothetical fitting)
Leave any protective caps in place until immediately prior to making a connection.

NPT - National Pipe Thread
Note tapered threads, no cone/flare, and no O-ring.
① Apply liquid pipe sealant for hydraulic applications. Do not use tape sealant, which can clog a filter and/or plug an orifice.

JIC - Joint Industry Conference (SAE J514)
② Note straight threads ④ and the 37° cone ⑤ on “M” fittings (or 37° flare on “F” fittings). Use no sealants (tape or liquid) on JIC fittings.

ORB - O-Ring Boss (SAE J514)
③ Note straight threads ⑤ and elastomer O-Ring ⑦. Prior to installation, to prevent abrasion during tightening, lubricate O-Ring with clean hydraulic fluid. Use no sealants (tape or liquid) on ORB fittings.

ORB fittings that need orientation, such as the ell depicted, also have a washer ⑧ and jam nut ⑨ (“adjustable thread port stud”). Back jam nut away from washer. Thread fitting into receptacle until O-Ring contacts seat. Unscrew fitting to desired orientation. Tighten jam nut to torque specification.

<table>
<thead>
<tr>
<th>Dash Size</th>
<th>Fitting</th>
<th>N-m</th>
<th>Ft-Lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>-4</td>
<td>1/4-18 NPT</td>
<td>1.5-3.0 turns past finger tight</td>
<td></td>
</tr>
<tr>
<td>-5</td>
<td>1/2-20 JIC</td>
<td>19-20</td>
<td>14-15</td>
</tr>
<tr>
<td>-5</td>
<td>1/2-20 ORB w/jam nut</td>
<td>12-16</td>
<td>9-12</td>
</tr>
<tr>
<td>-5</td>
<td>1/2-20 ORB straight</td>
<td>19-26</td>
<td>14-19</td>
</tr>
<tr>
<td>-6</td>
<td>7/32-18 JIC</td>
<td>24-27</td>
<td>18-20</td>
</tr>
<tr>
<td>-6</td>
<td>7/32-18 ORB w/jam nut</td>
<td>16-22</td>
<td>12-16</td>
</tr>
<tr>
<td>-6</td>
<td>7/32-18 ORB straight</td>
<td>24-33</td>
<td>18-24</td>
</tr>
<tr>
<td>-8</td>
<td>3/4-16 JIC</td>
<td>37-53</td>
<td>27-39</td>
</tr>
<tr>
<td>-8</td>
<td>3/4-16 ORB w/jam nut</td>
<td>27-41</td>
<td>20-30</td>
</tr>
<tr>
<td>-8</td>
<td>3/4-16 ORB straight</td>
<td>37-58</td>
<td>27-43</td>
</tr>
</tbody>
</table>
Hydraulic Lift Layout

TP-69289
Hydraulic Lift Layout

Counterbalance Valve

C1 to Rear of Depth Valve

Connects to a Blukhead bracket

Bulkhead 45° to rod end of gauge wheel cylinder
UD2600 Hydraulic Fold Layout

TP-69306

- Extend to IN on Bypass Valve
- Retract to T port on Bypass Valve
- Two-Way Valve
- Two-way valve to right hand bulkhead to top rear double tee block port
- Top, side double tee block to rod end of fold cylinder
UD3000 & 3300 Hydraulic Fold Layout

- Extend to IN on Bypass Valve
- Retract to T port on Bypass Valve
- Two-Way Valve
- Two-way valve to right hand bulkhead to top rear double tee block port
- Top, side double tee block to rod end of fold cylinder
- Right hand bulkhead to top rear double tee block port
- Top, side double tee block to rod end of fold cylinder
UD2600 Machine Layout

Be sure to bolt Rear bar 559-433H off set to the Left. Disc Assy 559-553S

Be sure to bolt Front bar 559-433H off set to the Right. Disc Assy 559-516S
UD3000 Machine Layout

Be sure to bolt Front bar 559-433H off set to the Right. Disc Assy 559-516S

Be sure to bolt Rear bar 559-433H off set to the Left. Disc Assy 559-553S
UD3300 Machine Layout

Be sure to bolt Rear bar 559-433H off set to the Left. Disc Assy 559-553S

Red Light Bracket Location
UD3300 Machine Layout

Be sure to bolt front bar 559-433H off set to the Right. Disc Assy 559-516S

Red Light Bracket Location

559-513H
559-473H
559-433H
559-509H
559-475H
UD2600 Reel Layout

TP-69277

SB REEL BASKET
559-579K

589-466H

559-580H

31\frac{1}{8}

64\frac{7}{8}

8\frac{7}{8}

15\frac{7}{8}

108

25
UD2600 Reel Layout
UD3000 Reel Layout
UD3000 Reel Layout

589-465H

559-581H

SB REEL BASKET 559-217K

SB REEL BASKET 559-106K

8

18

87\frac{1}{8}

12\frac{1}{8}

25

33\frac{5}{8}
UD3300 Reel Layout
UD3300 Reel Layout

Great Plains | 559-460Q | 2020-03-19
Reel Hydraulic Layout

- Extend to Bottom side port on Down Pressure Valve
- Retract to Top side port on Down Pressure Valve
- Base end of Cyl
Reel Hydraulic Layout

Runs to Oil Case drain on Tractor Bottom of Down Pressure Valve

Bottom Tee to Base end of Cyl

Base end of Cyl
UD2600 Coiltine with Reel Layout
UD2600 Coiltine with Reel Layout
UD3000 Coiltine with Reel Layout

TP-69273

24"Coiltine Ext LH 563-067K
589-466H

559-58H

25 5/8

SB REEL BASKET 559-106K

33 5/8

33
UD3000 Coiltine with Reel Layout
UD3300 Coiltine with Reel Layout

TP-69275

UD2600, UD3000, & UD3300

Great Plains | 559-460Q | 2020-03-19
UD3300 Coiltine with Reel Layout
Coiltine with Reel Hydraulic Layout

TP-69298
Coiltine with Reel Hydraulic Layout

Runs to Oil Case drain on Tractor Bottom of Down Pressure Valve

Bottom Port on Tractor

Bottom Tee to Base end of Cyl

Bottom Elbow to Base end of Cyl

Bottom Tee to Base end of Cyl
UD2600 Packing Roller Layout

TP-69283
UD2600 Packing Roller Layout

589-465H

559-581H

17 WHL—CAST PACKER
559-564K

15WHL—CAST PACKER
559-555K
UD3000 Packing Roller Layout

TP-69285

UD2600, UD3000, & UD3300

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17 WHL-CAST PACKER
559-564K

12WHL-CAST PACKER
559-567K
UD3300 Packing Roller Layout

11 WHL CAST PACKER
559-568K

589-465H

17 WHL CAST PACKER
559-564K

559-581H

83

23

82\frac{1}{4}

44\frac{3}{8}

7\frac{1}{2}

57\frac{1}{8}

4\frac{5}{8}

8
UD2600 & 3000 Packing Roller Hydraulic Layout

Extend to Bottom side port on Down Pressure Valve

Retract to Top side port on Down Pressure Valve

Base end of Cyl
UD2600 & 3000 Packing Roller Hydraulic Layout

Runs to Oil Case drain on Tractor Bottom of Down Pressure Valve

Bottom Tee to Base end of Cyl

Base end of Cyl
UD3300 Packing Roller Hydraulic Layout

Extend to Bottom side port on Down Pressure Valve

Retract to Top side port on Down Pressure Valve

Base end of Cyl.
UD3300 Packing Roller Hydraulic Layout

Runs to Oil Case drain on Tractor Bottom of Down Pressure Valve

Bottom Tee to Base end of Cyl

Base end of Cyl
Warranty

Great Plains (a division of Great Plains Manufacturing, Inc.) warrants to the original purchaser that this Great Plains unit will be free from defects in material and workmanship for a period of one year from the first use date when used as intended and under normal service and conditions for personal use; ninety days for custom/commercial or rental use. This Warranty is limited to the replacement of any defective part by Great Plains and the installation by the dealer of any such replacement part. Great Plains reserves the right to inspect any equipment or part which are claimed to have been defective in material or workmanship.

The following items and/or conditions are not covered under warranty: failures resulting from abuse or misuse of the equipment, failures occurring as a result of accidental damage or acts of God, failures resulting from alterations or modifications, failures caused by lack of normal maintenance as outlined in the operator’s manual, repairs made by non-authorized personnel, items replaced or repaired due to normal wear (such as wear items and ground engaging components), repeat repair due to improper diagnosis or repair by the dealer, temporary repairs, service calls and/or mileage to and from customer location, overtime premium, or unit hauling expenses. The warranty may be voided if the unit is towed at speeds in excess of 20 miles per hour (32 kilometers per hour), or is used in soils with rocks, stumps, or other obstructions.

Great Plains reserves the right to make changes in materials or design of the product at any time without notice. The warranty shall not be interpreted to render Great Plains liable for damages of any kind, direct or consequential or contingent to property. Furthermore, Great Plains shall not be liable for damages resulting from any cause beyond its control. This warranty does not extend to crop loss, losses caused by planting or harvest delays or any expense or loss of labor, supplies, rental machinery, or for any other reason.

No other warranty of any kind whatsoever express or implied, is made with respect to this sale; and all implied warranties of merchantability and fitness for a particular purpose which exceed the obligations set forth in this written warranty are hereby disclaimed and excluded from this sale.

This warranty is not valid unless the unit is registered with Great Plains within 10 days from the date of the original purchase.
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  559-460M, manual ............................5
  559-460P, manual ............................5
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  6-pin ........................................21, 22
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