Read the operator’s 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 optional equipment not supplied with standard unit.
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*Printed in the United States of America*
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.

Be Familiar with Safety Decals

▲ Read and understand “Safety Decals” on page 5, thoroughly.
▲ Read all instructions noted on the decals.
▲ Keep decals clean. Replace damaged, faded and illegible decals.
Wear Protective Equipment

▲ Wear protective clothing and equipment.
▲ Wear clothing and equipment appropriate for the job. Avoid loose-fitting clothing.
▲ Because prolonged exposure to loud noise can cause hearing impairment or hearing loss, wear suitable hearing protection such as earmuffs or earplugs.
▲ Because operating equipment safely requires your full attention, avoid wearing entertainment headphones while operating machinery.

Handle Chemicals Properly

Agricultural chemicals can be dangerous. Improper use can seriously injure persons, animals, plants, soil and property.
▲ Read and follow chemical manufacturer’s instructions.
▲ Wear protective clothing.
▲ Handle all chemicals with care.
▲ Avoid inhaling smoke from any type of chemical fire.
▲ Store or dispose of unused chemicals as specified by chemical manufacturer.

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.

Transport Machinery Safely

Maximum transport speed for implement is 20 mph (32 kph), 13 mph (22 kph) in turns. Some rough terrains require a slower speed. Sudden braking can cause a towed load to swerve and upset.

▲ Do not exceed 20 mph. Never travel at a speed which does not allow adequate control of steering and stopping. Reduce speed if towed load is not equipped with brakes.
▲ Comply with state and local laws.
▲ Do not tow an implement that, when fully loaded, weighs more than 1.5 times the weight of towing vehicle.
▲ Carry reflectors or flags to mark Ultra-Till in case of breakdown on the road.
▲ Keep clear of overhead power lines and other obstructions when transporting. Refer to transport dimensions under “UT Specifications and Capacities” on page 25.
▲ Do not fold or unfold the Ultra-Till while the tractor is moving.

Shutdown and Storage

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

Tire Safety

Tire changing can be dangerous and should be performed by trained personnel using correct tools and equipment.

▲ When inflating tires, use a clip-on chuck and extension hose long enough for you to stand to one side—not in front of or over tire assembly. Use a safety cage if available.
▲ When removing and installing wheels, use wheel-handling equipment adequate for weight involved.
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 machine, put tractor in park, turn off engine, and remove key before performing maintenance.
▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on machine.
▲ 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 machine 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 machine functions.
▲ Operate machinery from the driver’s seat only.
▲ Do not leave Ultra-Till unattended with tractor engine running.
▲ Do not stand between the tractor and machine during hitching.
▲ Keep hands, feet and clothing away from power-driven parts.
▲ Wear snug-fitting clothing to avoid entanglement with moving parts.
▲ Watch out for wires, trees, etc., when folding and raising machine. Make sure all persons are clear of working area.
Safety Decals

Safety Reflectors and Decals
Your implement comes equipped with all lights, safety reflectors and decals in place. They were designed to help you safely operate your implement.

▲ Read and follow decal directions.
▲ Keep lights in operating condition.
▲ Keep all safety decals clean and legible.
▲ Replace all damaged or missing decals. Order new decals from your Great Plains dealer. Refer to this section for proper decal placement.
▲ When ordering new parts or components, also request corresponding safety decals.

To install new decals:
1. Clean the area on which the decal is to be placed.
2. Peel backing from decal. Press firmly on surface, being careful not to cause air bubbles under decal.

818-055C
Slow Moving Vehicle Reflector
On the back of the center frame; 1 total

838-615C
Amber Reflectors
Two on light bracket and two on center brace bar. Two on center frame. Two on rear of finishing attachment (not shown), visible from side while folded for transport; 8 total
838-614C
Red Reflectors
On rear of light brackets (top); 2 total

838-603C
Orange Reflectors
On rear of light brackets (bottom); 2 total

838-598C
Caution: Read Operator’s Manual
On front of hitch; 1 total
838-599C
Danger: Electrocution Hazard
Top side of hitch strut;
1 total

838-600C
Danger: Crushing Hazard
Top side of hitch strut;
1 total

838-602C
Warning: Overhead Wing Hazard
On outside center of center and wing frames (both sides);
4 total 3030
6 total 5036, 5042 & 5052
838-094C
Warning: High Pressure Fluid
Top side of hitch strut;
1 total

838-611C
Warning: Hand Crushing
Front side of center wing brace (left & right side);
2 total

838-613C
Notice: Transport Lock
Top side of hitch strut;
2 total
838-612C
Warning: Wings Could Fall Suddenly
On back side of wing stop (both sides);
2 total
Introduction

Great Plains welcomes you to our growing family of new product owners. The Series I Ultra-Till 3030-UT5052 have 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.

Models Covered

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<td>5-section</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>UT5042</td>
<td>5-section</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>UT5052</td>
<td>5-section</td>
<td>52</td>
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Description of Unit

The Series I Ultra-Till 3030-UT5052 is a three or five-section seedbed preparation tillage tool. Working width ranges from 30 to 52 feet. The implement is designed to combine discing/slicing, with shallow harrowing in a vertical tillage field operation to smooth, level and incorporate chemicals in a single pre-plant pass.

Definitions

The following terms are used throughout this manual.

Notice

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

Document Family

- 576-026Q Pre-Delivery Manual
- 576-026M-A Operator Manual (this document)
- 576-026P Parts Manual

Using This Manual

This manual will familiarize you with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.

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

Some parts may change to assure top performance.

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.
Owner Assistance

If you need customer service or repair parts, contact a Great Plains dealer. They have trained personnel, repair parts and equipment specially designed for Great Plains products.

Refer to Figure 2

Your machine’s parts were specially designed and should only be replaced with Great Plains parts. Always use the serial and model number when ordering parts from your Great Plains dealer. The serial-number plate is located on the left end of the top front tool bar.

Record your Ultra-Till model and serial number here for quick reference:
Model Number: __________________________
Serial Number: __________________________

Your Great Plains dealer wants you to be satisfied with your new machine. If you do not understand any part of this manual or are not satisfied with the service received, please take the following actions.

1. Discuss the matter with your dealership service manager. Make sure they are aware of any problems so they can assist you.
2. If you are still unsatisfied, seek out the owner or general manager of the dealership.

For further assistance write to:

Product Support
Great Plains Mfg. Inc., Service Department
PO Box 5060
Salina, KS 67402-5060

gp_web_cs@greatplainsmfg.com

(800)255-9215
Preparation and Setup

This section helps you prepare your tractor and 3030-UT5052 Ultra-Till for use, and covers tasks that need to be done seasonally, or when the tractor/ Ultra-Till configuration changes.

Before using the Ultra-Till in the field, you must hitch it to a suitable tractor, inspect systems and level the Ultra-Till. Before using the Ultra-Till for the first time, and periodically thereafter, certain adjustments and calibrations are required.

Prior to Going to the Field Checklist

Complete this checklist before routine setup:

- Read and understand “Important Safety Information” on page 1.
- Check that all working parts are moving freely, bolts are tight, and cotter pins are spread.
- Make sure your tractor horsepower matches the implement you are pulling. This is important so the implement can do the best possible job.
- Clean all hydraulic couplings and connect to tractor as shown on page 13 and 14.
- If machine is folded, remove the transport pins from wing stops. (DO NOT remove pins if the wing is leaning against the pins or putting pressure on the pins. Use the hydraulics to pull the wings in completely before unpinning them.) Once the pins are removed, slowly untold the unit. Make sure no one is under the wings during the unfolding process.
- Check again for hydraulic leaks and watch that hoses do not get pinched in hinges, wing stops, etc.
- After the machine is completely unfolded, raise and lower the Ultra-Till several times to purge air from the hydraulic system. Again check for hydraulic leaks and tighten or replace if necessary.
- Check safety chain hookup. Make sure all warning lights are hooked up and functioning correctly.
- Check that all grease fittings are in place and lubricated. See “Lubrication” on page 23. The hubs will come pre-greased and will not need greased at this time.
- Check that all safety decals and reflectors are correctly located and legible. Replace if damaged. See “Safety Decals” on page 5.
- Inflate tires to pressure recommended and tighten wheel bolts as specified. See “Tire Inflation and Warranty” on page 25.
- Put transport locks in place and refold the machine slowly. Put wing stop pins in place. Always use the transport pins when moving from field to field. You are now ready to go to the field.
Hitching Tractor to Ultra-Till

**DANGER**

**Crushing Hazard:**
Do not stand or place any body part between Ultra-Till and moving tractor. You may be severely injured or killed by being crushed between the tractor and Ultra-Till. Stop tractor engine and set parking brake before attaching cables and hoses.

To prevent soil compaction on rows, set tractor wheels between rows. For hillsides and steep slopes, set tractor wheels as wide as possible for maximum stability.

1. Raise tractor three-point arms (if equipped) clear up to clear Ultra-Till.
2. For TWO-WHEEL DRIVE and MFWD tractors, pin drawbar in fixed center position for field and transport. For FOUR-WHEEL DRIVE and TRAC-DRIVE tractors, leave one hole clearance on each side of drawbar for field position, hitch damage may occur if pinned solid. Pin in center position for transport to maintain maximum steering control.
3. Hitch the tractor to the Ultra-Till using the block or yoke clevis determined by the tractor drawbar. This machine is equipped with a reversible single tang hitch. Use the correct size hitch pin to insure proper performance and to minimize wear.

**Load Sway Hazard:**
Lock drawbar swing to center position to minimize any side-to-side sway to assure proper tracking in the field, and safe road travel. See “Transporting” on page 16, for safe transporting

**Refer to Figure 3**
4. Use jack 1 to raise and lower Ultra-Till tongue.

**Refer to Figure 4**
5. After hitching tractor to Ultra-Till, store jack on storage tube 2 on top of hitch strut.
6. Secure Ultra-Till safety chain to an anchor on the tractor capable of pulling the unit.
Hydraulic Hose Hookup
Great Plains hydraulic hoses are color coded to help you hook up hoses to your tractor outlets. Hoses that go to the same remote valve are marked with the same color.

<table>
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<tr>
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<th>Hydraulic Function</th>
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<tr>
<td>Black</td>
<td>Lift (2 hoses)</td>
</tr>
<tr>
<td>Green</td>
<td>Fold/Hydraulic Down Pressure (2 hoses)</td>
</tr>
<tr>
<td>Red</td>
<td>Gangs (2 hoses)</td>
</tr>
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</table>

Refer to Figure 5

Hose Handles
To distinguish hoses on the same hydraulic circuit, refer to, Hydraulic Hose Hookup above. The hose under an extended symbol feeds a cylinder base end. The hose under a retracted-cylinder symbol feeds a cylinder rod end.

Clean all hydraulic couplings and hook hoses to tractor.

First Time Field Adjustments
Pre-Leveling of Machine

Front to Rear Leveling
Refer to Figure 6
Front to rear leveling should be done in the field with modules installed. This is adjusted at the turnbuckle ① with turnbuckle wrench ② located on the inside, left side of hitch.

WARNING
High Pressure Fluid Hazard:
Relieve pressure before disconnecting hydraulic lines. Use paper or cardboard, NOT BODY PARTS, to check for leaks. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Escaping fluid under pressure can have sufficient pressure to penetrate the skin causing serious injury. If an accident occurs, seek immediate medical assistance from a physician familiar with this type of injury. Only trained personnel should work on system hydraulics.
Side to Side Leveling

Refer to Figure 7

7. The initial side to side leveling is best be done before modules are installed.

8. On level surface, unfold and lower the machine until the cylinders are completely retracted and measure down from the ground. Take note of the measurements.

9. Repeat the same procedure at each section to pre-level the machine by adjusting the eyebolt ① on each cylinder until each wing section is the same as the center section.

Figure 7
Wing Depth Adjustment
Operating Instructions

This section covers general operating procedures. Experience, machine familiarity, and the following information will lead to efficient operation and good working habits. Always operate farm machinery with safety in mind.

Pre-Start Checklist

Perform the following steps before transporting the Ultra-Till to the field.

- Carefully read “Important Safety Information” on page 1.
- Lubricate Ultra-Till as indicated under “Lubrication” on page 23.
- Check all tires for proper inflation.
- Check all bolts, pins, and fasteners. Torque as shown in “Torque Values Chart” on page 27.
- Check Ultra-Till for worn or damaged parts. Repair or replace parts before going to the field.
- Check hydraulic hoses, fittings, and cylinders for leaks. Repair or replace before going to the field.

Transporting

See “Hitching Tractor to Ultra-Till” on page 13 before transporting the Ultra-Till.

Check Tractor Capacity and Configuration

- Know the weight of your Ultra-Till (see table on specification page).
- Consult your tractor manual for 3-point limitations.
- Add weights to tractor as required.
- When determining the weight of your Ultra-Till, be sure to include the weight of any options.

Transport Checklist

- Plan the route. Avoid steep hills. Keep Clearances in mind.
- Make all electrical and hydraulic connections. See “Hitching Tractor to Ultra-Till” on page 13.
- Raise Ultra-Till.
- Be sure all transport locks are installed.
- Always have lights on for highway operation.
- Comply with all federal, state and local safety laws when traveling on public roads.
- Travel with caution. Allow safe clearance. Remember that the Ultra-Till is wider than the tractor.

WARNING

High Pressure Fluid Hazard:
Relieve pressure and shut down tractor before connecting, disconnecting or checking hydraulic lines. Use a piece of paper or cardboard, NOT BODY PARTS, to check for leaks. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Escaping fluid under pressure can have sufficient pressure to penetrate the skin causing serious injury. If an accident occurs, seek immediate medical assistance from a physician familiar with this type of injury.

WARNING

Loss of Control Hazard:
Use a tractor rated for the load. Add tractor ballast as needed. Do not exceed 20 mph. Towing the Ultra-Till with a vehicle that is not adequate, or at high speeds, could lead to loss of vehicle control. Loss of vehicle control can result in a serious road accident, severe injury or death. Check that your tractor has enough power to handle the weight of the Ultra-Till. Refer to your tractor’s operator manual for capacities and ballast requirements.
General Operation and In-Field Adjustments

10. The Ultra-Till is designed as a primary/secondary vertical tillage tool and is designed to leave a finished seedbed following some form of fall or spring tillage. In a min-till/no-till operation, it may be used as a primary one pass vertical tillage tool. For best results, if at all possible, run the machine at a slight angle to the rows. This will improve trash flow and help spread the residue more evenly throughout the field.

11. Remove the transport pins and unfold machine. Make sure the fold cylinders are fully extended to allow the wings to fully flex in the field.

12. The ideal working speed for the Ultra-Till with turbo blades is 7 to 10 mph and with disc blades, no more than 7 mph is recommended due to the possibility of ridging.

13. Before starting in the field: Set the depth of the gangs at 0 inches on the gauge. Let the machine all the way down until the cylinders are retracted. Set your leveling front to back with the turnbuckle on the hitch by lengthening or shortening. Reset the depth of gangs between 2 to 3 on the level gauge.
Hydraulic Down Pressure 3030

Refer to Figure 8

Note: This setup procedure is for tractors with closed-center or pressure compensated flow hydraulic systems. Open center hydraulics not supported. Adjust down pressure valve as shown on decal 3 (located on top of pressure reducing valve) Refer to Figure 9.

14. Close front valve 2 (clockwise); open one turn.
15. Set tractor flow rate for fold system to SLOW.
16. Engage hydraulics (continuous flow) down.
17. Adjust rear valve 3 to obtain 1400 psi.
18. Adjust front valve 2 to 1300 psi; lock valve.
19. Adjust rear valve 3 to desired down pressure (usually between 500 to 800 psi).
20. If the wings run high during operation, increase pressure. If the center runs high, decrease pressure. Do not exceed exceed 1000 psi.

Caution: This machine is designed for continuous hydraulic flow to the wing fold cylinders during field operations. It is for use on tractors having CLOSED CENTER hydraulics only. If your tractor has OPEN CENTER hydraulics, please consult your dealer for operating instructions.

DOWN PRESSURE SETTING 3–SECTION ULTRATILL:
1. Close front valve (clockwise); open one turn.
2. Set tractor flow rate for fold system to SLOW.
3. Engage hydraulics (continuous flow) down.
4. Adjust rear valve to obtain 1400 psi.
5. Adjust front valve to 1300 psi; lock valve.
6. Adjust rear valve to desired down pressure (usually between 500 to 800 psi).
7. If wings run too high, increase pressure. If center runs high, decrease pressure. Do not exceed 1000 psi.

Caution: This machine is designed for continuous hydraulic flow to the wing fold cylinders during field operations. It is for use on tractors having CLOSED CENTER hydraulics only. If your tractor has OPEN CENTER hydraulics, please consult your dealer for operating instructions.
Hydraulic Down Pressure 5 Section

Refer to Figure 10

Note: This setup procedure is for tractors with closed-center or pressure compensated flow hydraulic systems. Open center hydraulics not supported. Adjust down pressure valve as shown on decal 1 (located on top of inside and outside pressure reducing valve) Refer to Figure 11.

21. Close front valve 2 (clockwise); open one turn.
22. Set tractor flow rate for fold system to SLOW.
23. Engage hydraulics (continuous flow) down.
24. Adjust rear valve 3 to obtain 1200 psi.
25. Adjust front valve 3 to 1100 psi; lock valve.

26. Adjust rear valve to desired down pressure
(400-700 psi inside wings-left valve 3)
(400-700 psi outer wings-right valve 4).

27. If the wings run high during operation, increase pressure.
   If the center runs high, decrease pressure. Do not exceed
   exceed 1000 psi.

Caution: This machine is designed for continuous hydraulic flow to the wing fold cylinders during field operations. It is for use on tractors having CLOSED CENTER hydraulics only. If your tractor has OPEN CENTER hydraulics, please consult your dealer for operating instructions.

DOWN PRESSURE SETTING 5-SECTION ULTRATILL:

1. Close front valve (clockwise); open one turn.
2. Set tractor flow rate for fold system to SLOW.
3. Engage hydraulics (continuous flow) down.
4. Adjust rear valves to obtain 1200 psi each.
5. Adjust front valve to 1100 psi; lock valve.
6. Adjust rear valves to desired down pressure
   (400–700 psi inside wings – left valve)
   (400–700 psi outer wings – right valve).
7. If wings run too high, increase pressure.
   If center runs high, decrease pressure.
   Do not exceed 900 psi.

⚠ CAUTION: This machine is designed for continuous hydraulic flow to the wing fold cylinders during field operations. It is for use on tractors having CLOSED CENTER hydraulics only. If your tractor has OPEN CENTER hydraulics, please consult your dealer for operating instructions.
28. If possible have someone observe the machine during first time operation for levelness, front to rear and wings to center frame. Adjust each as needed. If ground is soft, and the blades are running too deep, raise the gangs to desired depth. You may need to readjust front to back. If ground is hard this may raise the front and again the front to back may need to be changed. To change front to rear, either extend or shorten the length of the turn-buckle on the hitch. On 5-section machines with the hydraulic gauge wheels, set the wheels in field position to be 1” to 2” off the ground.

29. Adjust the drag to leave the desired results while maintaining the trash flow through the drag.

**Gang Settings**

*Refer to Figure 12*

30. For final adjustment on the hydraulic down pressure, note the action of the gang bolts as machine operates through the field by watching the nuts at the top of the bolts (as shown by arrows).

31. If the center gang bolts are more active than the wings, the pressure to the wings may need to be increased. If the wing gang bolts are cycling extensively but the center is not, the pressure to the wings need to be decreased.

32. On a 5-section machine, you need to set the outside wings with one valve and the inside wings with the other (the valves are marked as to which is which).

33. Once all the spring bolts across the machine are working evenly, lock the valves in place. You may re-adjust these valves as field conditions change, (i.e. ground becomes harder as it dries out or wetter after a rain).
**Heavy Reel**

Refer to Figure 13

34. The reel attachment ① is a very versatile leveling attachment and requires very little adjustment.

35. The reel down pressure may be adjusted by loosening the jam nut ② and then either increasing or decreasing the spring pressure ③. When the desired amount of spring pressure is set, re-tighten the jam nut ②. Note: It is recommended to run little or no down pressure in wet or sticky field conditions.

Refer to Figure 14

36. The bars on the reels are angled forward ④ and should be installed as such on the machine. In some conditions in which a firming of the soil is more desirable than breaking up clods then these reels can be mounted in reverse ⑤. This does however increase the chance of causing damage to the bars in rocky soil.

**WARNING**

Be sure reels are installed with twisted bars oriented forward ④ as shown. Mounting in reverse ⑤ can damage reel in rocky soil.
Parked
Follow these steps when parking the implement for periods of less than 36 hours. For longer periods, see Storage, the next topic.

1. Position the implement on firm, level ground.

**DANGER**

Negative Tongue Weight Hazard:
If rear tow hitch is installed it is possible that the Series I Ultra-Till can tip over backwards during hitching and unhitching resulting in severe injury or death.

Refer to Figure 15
2. Remove jack from storage position and pin securely to lifting stob on outside of implement tongue ①. See “Hitching Tractor to Ultra-Till” on page 13.
3. If ground is soft, place a wide block or plate under the jack to increase contact area.
4. Un-hook electrical lines and protect with any plugs or caps provided.
5. Release pressure on hydraulic system, then disconnect hydraulic lines and pull all lines back onto implement tongue. Store hose ends in keyholes of hose holder bracket.
6. Disconnect the safety chain.
7. Unhitch from tractor or leading implement.

Storage
Store the implement where children do not play. If possible, store inside for longer life.

1. Raise, fold and lock implement. For unfolded storage, see steps at right.
2. Perform Parking checklist above.
3. Lubricate the implement at all points listed under “Lubrication” on page 23.
4. Check all bolts, pins, fittings and hoses. Tighten, repair or replace parts as needed.
5. Check all moving parts for wear or damage. Make notes of any parts needing repair or replacement before the next season.
6. Lubricate all points listed in Maintenance to prevent rust.
7. Clean Ultra-Till of mud, dirt, excess oil and grease.
8. Grease exposed cylinder rods to prevent rust.
9. Use touch-up paint to cover scratches, chips and worn areas to prevent rust.
Maintenance and Lubrication

Maintenance

1. Always use the transport lock when working on or doing maintenance to the Discovator. If folded, be sure your wing stop pins are in place. Read and understand all safety decals on your equipment.

2. During the first season of operation, and periodically after that, check your bolts for tightness. Check shank pivot bolts for tightness. Check shank pivot bolts on the spring-loaded shank, these must remain tight to prevent excessive wear on the shank assembly.

3. Replace or rotate worn parts as needed — hinge bolts, clevis pins, bearings, sweeps, shanks, etc. Boron disc blades cannot be rolled to be sharpened, they must be ground. Cracks and breakage will occur if rolled.

4. Check and tighten or replace any hydraulic leaks. Check hoses for any leaks. It is important that there are no leaks on the equipment.

5. Grease wheel bearings and walking beams sparingly. Over greasing may cause damage to seals and reduce the life of the bearing. Grease hinge points periodically. Reel and Disc or Coulter Gang bearings are maintenance free and do not require greasing.

6. Check drag bolts for looseness or excessive wear. Replace broken or bent teeth. Your drag is an important part of the tillage operation.

7. If machine is stored outdoors over the winter months, it is a good idea to fold the machine then set it down on the ground so all the cylinders are retracted to protect the cylinder rods. This will extend the life of the cylinder seals and reduce internal and external leaks.

By following and maintaining a routine service and lubrication program, your tillage equipment will give you many years of service.

For the most current manual information, visit Great Plains website listed below. For more information on operating, adjusting or maintaining your Great Plains Discovator, assistance is available. Contact:

Product Support
Great Plains Mfg. Inc., Service Department
PO Box 5060
Salina, KS 67402-5060
(800)255-9215
gp_web_cs@greatplainsmfg.com

Lubrication

Wheel Bearing Hub

<table>
<thead>
<tr>
<th>Multipurpose spray lube</th>
<th>Multipurpose grease lube</th>
<th>Multipurpose oil lube</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 zerk on each hub; 4 total

Type of Lubrication: Grease
Quantity: Sparingly, Do Not Over Grease, may cause damage seal.

Repack wheel bearings annually or every 2500 acres.
Inside Wing Hinge Points

On all inside wing hinge points
Type of Lubrication: Grease
Quantity: Until grease emerges

Outside Wing Hinge Points

On all outside hinge points
Type of Lubrication: Grease
Quantity: Until grease emerges

Walking Beam Pivot Bearings

One on each walking beam
Type of Lubrication: Grease
Quantity: Sparingly and check for endplay
If there is a lot of end play take apart, check bearings and re-pack
UT Specifications and Capacities

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<tr>
<th>Model No.</th>
<th>UT3030</th>
<th>UT5036</th>
<th>UT5042</th>
<th>UT5052</th>
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<tbody>
<tr>
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<td>30' (9.14 m)</td>
<td>36' (10.98 m)</td>
<td>42' (12.80 m)</td>
<td>52' (15.85 m)</td>
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<tr>
<td>Number of Coulters</td>
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<td>52</td>
<td>64</td>
<td>78</td>
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<tr>
<td>Number of Modules</td>
<td>13</td>
<td>17</td>
<td>21</td>
<td>21</td>
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<tr>
<td>Center Section</td>
<td>10' (3.05 m)</td>
<td>10' (3.05 m)</td>
<td>10' (3.05 m)</td>
<td>12' 6&quot; (3.81 m)</td>
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<tr>
<td>1st Wing</td>
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<td>8' 6&quot; (2.60 m)</td>
<td>9' 6&quot; (2.90 m)</td>
<td>10' 6&quot; (3.20 m)</td>
</tr>
<tr>
<td>2nd Wing</td>
<td>N/A</td>
<td>4' (1.22 m)</td>
<td>6' 6&quot; (1.99 m)</td>
<td>8' 6&quot; (2.60 m)</td>
</tr>
<tr>
<td>Transport Width</td>
<td>14' 8&quot; (4.51 m)</td>
<td>16' 7&quot; (5.09 m)</td>
<td>16' 7&quot; (5.09 m)</td>
<td>18' 11&quot; (5.76 m)</td>
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<tr>
<td>Transport Height</td>
<td>14' 4&quot; (4.37 m)</td>
<td>12' 8&quot; (3.90 m)</td>
<td>14' 3&quot; (4.34 m)</td>
<td>15' 6&quot; (4.72 m)</td>
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<tr>
<td>Weight</td>
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<td>14700 lb (6668 kg)</td>
<td>17450 lb (7915 kg)</td>
<td>21500 lb (9752 kg)</td>
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<td>Tire Size Center</td>
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<td>12.5L-15 Load F</td>
<td>380/55R16.5</td>
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<td>Tire Size Wing</td>
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<td>11 LX15 8 PLY</td>
<td>11 LX15 8 PLY</td>
<td>11 LX15 8 PLY</td>
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<tr>
<td>Horsepower</td>
<td>150-200</td>
<td>180-250</td>
<td>200-300</td>
<td>300+</td>
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<tr>
<td>Kilowatt</td>
<td>112-149</td>
<td>134-186</td>
<td>112-234</td>
<td>234+</td>
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</table>

Weight can vary by hundreds of pounds depending on options installed.

Wheel Bolt Torque Values

$1/2"$-20 (75-85 ft-lbs) $9/16"$-18 (80-90 ft-lbs) $5/8"$-18 (85-100 ft-lbs)

Tire Inflation and Warranty

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</tr>
<tr>
<td>Gauge Wheel</td>
</tr>
<tr>
<td>Transport/Center</td>
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<td>Transport/Center</td>
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<td>Transport/Center</td>
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<table>
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<tr>
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<tr>
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<tr>
<td>Firestone</td>
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<tr>
<td>Gleason</td>
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<tr>
<td>Titan</td>
</tr>
<tr>
<td>Galaxy</td>
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<tr>
<td>BKT</td>
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</table>

All tires are warranted by the original manufacturer of the tire. Tire warranty information is found in the brochures included with your Operator's and Parts Manuals or online at the manufacturer's web sites listed below. For assistance or information, contact your nearest Authorized Farm Tire Retailer.
Hydraulic Connectors and Torque

Refer to Figure 16 (a hypothetical fitting)
Leave any protective caps in place until immediately prior to making a connection.

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

② JIC - Joint Industry Conference (SAE J514)
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.

③ ORB - O-Ring Boss (SAE J514)
Note straight threads ⑥ 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>
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<tr>
<th>Dash Size</th>
<th>Fitting</th>
<th>N-m</th>
<th>Ft-Lbs</th>
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<tr>
<td>-4</td>
<td>⅛-18 NPT</td>
<td>1.5-3.0 turns past finger tight</td>
<td></td>
</tr>
<tr>
<td>-5</td>
<td>⅛-20 JIC</td>
<td>19-20</td>
<td>14-15</td>
</tr>
<tr>
<td>-5</td>
<td>⅛-20 ORB w/jam nut</td>
<td>12-16</td>
<td>9-12</td>
</tr>
<tr>
<td>-5</td>
<td>⅛-20 ORB straight</td>
<td>19-26</td>
<td>14-19</td>
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<tr>
<td>-6</td>
<td>⅜-18 JIC</td>
<td>24-27</td>
<td>18-20</td>
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<tr>
<td>-6</td>
<td>⅜-18 ORB w/jam nut</td>
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<td>-6</td>
<td>⅜-18 ORB straight</td>
<td>24-33</td>
<td>18-24</td>
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<tr>
<td>-8</td>
<td>⅜-16 JIC</td>
<td>37-53</td>
<td>27-39</td>
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<td>-8</td>
<td>⅜-16 ORB w/jam nut</td>
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<td>-8</td>
<td>⅜-16 ORB straight</td>
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## Torque Values Chart

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<td>in-tpi</td>
<td>Grade 2</td>
<td>Grade 5</td>
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<tr>
<td>1/4-20</td>
<td>7.4</td>
<td>5.6</td>
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<td>1/4-28</td>
<td>8.5</td>
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<tr>
<td>5/16-18</td>
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<td>11</td>
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<tr>
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<td>1 1/8-12</td>
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<td>395</td>
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<td>1 1/4-7</td>
<td>680</td>
<td>500</td>
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<tr>
<td>1 1/4-12</td>
<td>750</td>
<td>555</td>
</tr>
<tr>
<td>1 1/2-6</td>
<td>890</td>
<td>655</td>
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<tr>
<td>1 1/2-12</td>
<td>1010</td>
<td>745</td>
</tr>
<tr>
<td>1 3/8-6</td>
<td>1180</td>
<td>870</td>
</tr>
<tr>
<td>1 3/8-12</td>
<td>1330</td>
<td>980</td>
</tr>
</tbody>
</table>

### Torque Tolerance
- + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.

**Disc or Coulter Gang Bolt Torque**

- **1 1/2”-6**: 650-750 Foot-pounds (175 lbs on 4’ cheater).

---

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

Great Plains Manufacturing, Incorporated warrants to the original purchaser that this tillage equipment will be free from defects in material and workmanship for a period of one year from the date of original purchase when used as intended and under normal service and conditions for personal use; 90 days for commercial or rental purposes. This Warranty is limited to the replacement of any defective part by Great Plains Manufacturing, Incorporated 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.

This Warranty does not apply to any part or product which in Great Plains’ judgement shall have been misused or damaged by accident or lack of normal maintenance or care, or which has been repaired or altered in a way which adversely affects its performance or reliability, or which has been used for a purpose for which the product is not designed. This Warranty shall not apply if the product is towed at a speed in excess of 20 miles per hour.

Claims under this Warranty must be made to the dealer which originally sold the product and all warranty adjustments must be made through such dealer. Great Plains reserves the right to make changes in materials or design of the product at any time without notice.

This Warranty shall not be interpreted to render Great Plains liable for damages of any kind, direct, consequential, or contingent, to property. Furthermore, Great Plains shall not be liable for damages resulting from any cause beyond its reasonable control. This Warranty does not extend to loss of crops, losses caused by harvest delays or any expense or loss for 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 registered with Great Plains Manufacturing, Incorporated within 10 days from the date of original purchase.
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  576-026P, manual ............. 10
  576-026Q, manual ............. 10
  818-055C, reflector .......... 5
  838-094C, decal .............. 8
  838-598C, decal .............. 6
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12/31/2013 576-026M-A
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