Pre-Delivery Manual

6321UC, 6324UC, 6327UC, 6329UC, 6330UC, 6333UC, 6536UC, 6538UC, 6542UC, 6544UC
6000 Series Ultra Chisel

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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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.

Use Adequate Lifting Means

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

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 the “Safety Decals” section of the Operators Manual.
▲ 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.

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.
Shutdown and Storage

▲ Lower implement, put tractor in park, turn off engine, and remove the key.
▲ Secure Ultra Chisel using blocks and supports provided.
▲ Detach and store Ultra Chisel 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.

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 machine 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.
Introduction

The 6321-6545UC Ultra Chisel has been designed with care and built by skilled workers using quality materials. Proper setup, maintenance, and safe operating practices will help the customer get years of satisfactory use from the machine.

Description of Unit

The 6321-6545UC Ultra Chisel, is a three or five-section primary tillage tool. Working width ranges from 21 to 44 feet. In todays environment, soil management is vital to maximizing yields. The Ultra Chisel provides producers with a unique tool to fracture the soil above 8" to remove density layers while leaving the residue mixed at the surface to reduce wind erosion and assist with water infiltration.

Models Covered

6321UC   21-Foot   3-section  
6323UC   24-Foot   3-section  
6327UC   27-Foot   3-section  
6329UC   29-Foot   3-section  
6330UC   30-Foot   3-section  
6332UC   32-Foot   3-section  
6356UC   36-Foot   5-section  
6538UC   38-Foot   5-section  
6542UC   42-Foot   5-section  
6544UC   44-Foot   5-section  

Document Family

562-094Q Pre-Delivery Manual (this document)  
562-094M Operator Manual  
562-094P Parts Manual  

Tools Required

• Basic Hand Tools  
• Torque Wrench  
• Fork Truck, Overhead Hoist or Loader  

Pre-assembly Checklist

1. Before assembling, read and understand “Important Safety Information” in front part of this manual.  
2. Have at least two people on hand while assembling.  
3. Make sure area is level and free of obstructions (preferably an open concrete area).  
4. Have all major components  
5. Have all fasteners and pins shipped with machine.
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's and parts manual is also provided with the new machine. Read and understand “Important Safety Information” and “Operating Instructions” in the operator's manual before assembling the machine. Refer to the parts manual for proper part's identification. As a reference, keep the operator's and part's manual on hand while assembling.

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

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.

Note: Useful information related to the preceding topic.

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.
Shipping
The Ultra Chisel will be shipped pre-assembled.

- The Ultra Chisel may be shipped with shipping stands that will not need to be returned to Great Plains.
- Wings will be connected to center frame and un-folded in field position.
- All hydraulics will be connected and purged.
- Shank mount assemblies will be attached to frames in proper locations.
- Shank assemblies will be shipped in a box on a pallet.
- Finishing attachments (if equipped), will be pre-assembled and banded to pallet.

Unloading
Be sure the truck is on level ground, preferably concrete.

Centering components:
The Ultra Chisel is very heavy, be sure and use 2, 8000# fork trucks to unload machine. Be sure and center fork truck or chains (overhead hoist) on components so they won’t slide and cause injury.

Unload Smaller Items First
Unloading the Ultra Chisel is a potentially dangerous operation.

Note: Place smaller components well out of the manoeuvring area needed for unloading the Ultra Chisel

Reduce risk and complications by first unloading:
6. the finishing attachments
7. the misc. boxes
8. the Ultra Chisel (described in next section)

Unload Ultra Chisel
9. Double-check that all chains and tie-down straps have been released and stowed.
10. Set parking brake on trailer tractor.
11. On some models you will need to hook the machine up to a hydraulic source and fold the machine completely into the transport position before removing from trailer.
12. Slowly lift the Ultra Chisel off trailer bed using two fork lifts.
13. Stop lifting about 12” above the bed.
14. Have the truck driver slowly pull the trailer straight out from under the Ultra Chisel.
15. Making sure to keep level from front to back and side to side, slowly lower the Ultra Chisel.

16. Lower the Ultra Chisel down until the shipping stands are about 12” off ground.

17. Remove shipping stands.

18. Slowly lower Ultra Chisel until it’s resting on the center transport tires and sweeps.

**Unpacking Boxes**

Note: Position boxes in area that you can maneuver components up to machine to assembly.

19. Carefully remove banding from boxes.

20. Carefully remove banding from finishing reels.

21. Locate and identify all components before assembling.

**Assembly and Setup Assistance**

To order additional copies of pre-delivery instructions or operators and parts manuals, write to the following address. Include model numbers in all correspondence.

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

**Product Support**

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

gp_web_cs@greatplainsmfg.com  
785-823-3276
Assembly

Install Hitch Assembly

Refer to Figure 3

22. Attach hitch assembly 10 to center frame with $1\frac{1}{4}$ flat washers 11 (one on each side of hitch, both sides), $1\frac{3}{4} \times 7$ Gr. 8 hex bolt 12 and $1\frac{1}{4}$ top lock nut.

23. Attach hitch jack 13 to front jack tube as shown to support front of tongue.

24. Route 30’ light harness 14 and hydraulic hoses 15 (that are rolled up on front of brace bar), along hitch assembly as shown. Secure with Stauff hose clamps 16, $\frac{5}{16} \times 1\frac{1}{4}$ hex bolts 17 and 2 stauff stacking bolts 18 for three clamps ($\frac{5}{16} \times 1\frac{1}{4}$ and 1 stauff stacking bolts for two clamps or $\frac{5}{16} \times 1\frac{1}{4}$ for one clamp).

25. Bolts may be tightened to specs, See “Torque Values Chart” on page 11.

Install Spring Shanks

Refer to Figure 4

26. The shank mounts will be shipped in correct location from factory. If something moved during shipping, go to the layout section of “Operator’s Manual” for proper placement. Some shanks and points or sweeps will need to be installed.

27. Locate shank assemblies, the $\frac{5}{8} \times 4\frac{1}{2}$ bolt 18 and the $\frac{1}{2} \times 3$ bolt 20 and necessary lock nuts from the misc. box.

28. Slide shank assembly 21 through shank cradle in shank mount 22 and align holes as shown.

29. Install $\frac{5}{8} \times 4\frac{1}{2}$ bolt 19, $\frac{1}{2} \times 3$ bolt 20 secure with $\frac{5}{8}$ lock nuts.

30. Adjust the Shank Spring Bolt Tightener 23 until the spring is 12in. from the top of the cup washer to the top plate of the hank upright. Tighten jam nut 24 to hold adjustment in place.

31. Repeat same procedure for rest of shanks.
Install Gauge Wheel

Refer to Figure 5

Note: Some models will be shipped without the gauge wheels installed. Gauge Wheels may be assembled and you will simply have to install them on the front of the machine. See "Tire Inflation Chart" on page 12, for proper tire sizes for tire/wheel assembly [21].

32. Start by installing the brackets onto the frames with 3/4 x 2 Gr 5 bolts [10], 3/4 lock nuts, and 3/4 hex nuts.

33. Install the LH or RH gauge wheel arm with lever [11] and gauge wheel arm [12] to the brackets, with 1 x 12 1/4 Gr 8 bolts [13], or 1 x 7 Gr 5 bolts [14], 1 flat washers, 1 lock washers and 1 nuts. If gauge wheels are not fully assembled you will need to drive caster inner pivot tubes, [15] into the brackets and thru the gauge wheel arms before installing bolts.

34. Fasten turnbuckle assembly [16] to gauge wheel arms with 1 x 3 snap ring pins [17], 1 machine washer and 1 snap rings.

35. Attach the caster pivot arm assembly [18] to gauge wheel arms [11] and [12], drive inner pivot tubes into brackets and gauge wheel arms before securing with 1 x 10 Gr 5 bolts [19], 1 hex nuts, 1 flat washers, and 1 lock washers.

36. Slide 6-bolt hub assembly [20] into pivot mount assembly, align holes, secure with 5/16 x 3 1/2 Gr 8 hex bolt and 5/16 lock nut.

37. Attach the wheel/tire assembly [21] to 6-bolt hub assembly and secure with 5/16 lug nuts.

38. Tighten bolts to specs, See "Torque Values Chart" on page 11.

Completing Setup

40. If the Ultra Chisel is equipped with an optional finishing attachment, refer to “Parts Manual” for parts breakdown.

41. Once the options are installed, fold the Ultra Chisel to check for clearance and interferences. Slowly fold Ultra Chisel while watching that hoses and wiring harnesses do not become pinched or kinked while watching for interferences.

Note: Double check that all bolts are tightened to specs, See “Torque Values Chart” on page 11. Consult the operating instructions, “Operator’s Manual”, for the first time field adjustments before going to the field.
# Appendix - Reference Information

## Torque Values Chart

<table>
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<th>Bolt Head Identification</th>
<th>Bolt Size</th>
<th>Bolt Head Identification</th>
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<tbody>
<tr>
<td></td>
<td>Grade 2</td>
<td>Grade 5</td>
<td>Grade 8</td>
</tr>
<tr>
<td>in-tpia</td>
<td>N-m b ft-lb d</td>
<td>N-m</td>
<td>ft-lb</td>
</tr>
<tr>
<td>1/4-20</td>
<td>7.4 5.6</td>
<td>11 8</td>
<td>16 12</td>
</tr>
<tr>
<td>1/4-28</td>
<td>8.5 6</td>
<td>13 10</td>
<td>18 14</td>
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<td>15 11</td>
<td>24 17</td>
<td>33 25</td>
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<td>59 44</td>
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<td>31 22</td>
<td>47 35</td>
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<td>Wheel Bolt Torque Values</td>
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</tbody>
</table>

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

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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
Tire Inflation Chart

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<tr>
<th>Wheel</th>
<th>Tire Size</th>
<th>Inflation</th>
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<td>Wing</td>
<td>12.5L x 15</td>
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<td>12-Ply RI</td>
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<tr>
<td>Transport</td>
<td>340/60 R 16.5</td>
<td>73 psi (503 kPa)</td>
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<td>Transport</td>
<td>380/55 R 16.5</td>
<td>73 psi (503 kPa)</td>
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<tr>
<td>Gauge Wheel</td>
<td>11L x 15</td>
<td>52 psi (358 kPa)</td>
</tr>
<tr>
<td></td>
<td>12-Ply RI</td>
<td></td>
</tr>
</tbody>
</table>

Tire Warranty Information

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.

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Web site</th>
</tr>
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<tbody>
<tr>
<td>Firestone</td>
<td><a href="http://www.firestoneag.com">www.firestoneag.com</a></td>
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<tr>
<td>Gleason</td>
<td><a href="http://www.gleasonwheel.com">www.gleasonwheel.com</a></td>
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<tr>
<td>Titan</td>
<td><a href="http://www.titan-intl.com">www.titan-intl.com</a></td>
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<tr>
<td>Galaxy</td>
<td><a href="http://www.atgtire.com">www.atgtire.com</a></td>
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<tr>
<td>BKT</td>
<td><a href="http://www.bkt-tire.com">www.bkt-tire.com</a></td>
</tr>
</tbody>
</table>

Hydraulic Connectors and Torque

Refer to Figure 6 (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  and the 37° cone 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  and elastomer O-Ring .
   - 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  and jam nut  (“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.

![Figure 6 Hydraulic Connector ID](image-url)

<table>
<thead>
<tr>
<th>Dash Size</th>
<th>Fitting</th>
<th>N-m</th>
<th>Ft-Lbs</th>
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</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>
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