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 spacings and/or optional equipment not supplied with standard unit.
Machine Identification

Record your machine details in the log below. If you replace this manual, be sure to transfer this information to the new manual.

If you, or the dealer, have added Options not originally ordered with the machine, or removed Options that were originally ordered, the weights and measurements are no longer accurate for your machine. Update the record by adding the machine weight and measurements, starting on page 33, with the Option(s) weight and measurements.

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<td>Serial Number</td>
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<td>Year of Construction</td>
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Dealer Contact Information

Name: _____________________________
Street: __________________________
City/State: _______________________
Telephone: ________________________
Email: __________________________
Dealer’s Customer No.: ____________

⚠️ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
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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 4, thoroughly.
▲ 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.

Transport Machinery Safely

Maximum transport speed for implement is 20 mph (32 km/h). Some rough terrains require a slower speed. Sudden braking can cause a towed load to swerve and upset.

▲ Do not exceed 20 mph (32 km/h). 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 unless the towing vehicle is rated for, and ballasted for, the weight of the implement.
▲ Carry reflectors or flags to mark implement in case of breakdown on the road.
▲ Do not fold or unfold the implement while the tractor is moving.
Check for Overhead Lines
The implement requires at least 14 feet vertical clearance in transport. Contacting overhead electrical lines can introduce lethal voltage levels on implement 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 implement, put tractor in park, turn off engine, and remove the key.
▲ Secure implement using blocks and supports provided.
▲ Detach and store implement 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 implement, 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 implement.
▲ 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 implement 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 implement functions.
▲ Operate machinery from the driver’s seat only.
▲ Do not leave implement 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 implement during hitching.
▲ Keep hands, feet and clothing away from moving parts.
▲ Watch out for wires, trees, etc., when folding and raising implement. 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 center rear face of center frame tie tube; 1 total
Red Reflectors; HB25 S/N D1001G- and HB40 S/N D1005F- 838-266C

On rear face of light bracket mount tube, at each outboard end, one rear of wing tool bars, one each outboard end; 4 total

Red Reflectors; HB25 S/N D1002G+ 838-266C

On rear face of light bracket mount tube, at each outboard end, one rear of wing tool bars, one each outboard end; 4 total

Red Reflectors; HB40 S/N D1006F+ 838-266C

On rear face of light bracket mount tube, at each outboard end, one rear of wing tool bars, one each outboard end; 4 total
**Daytime Reflectors; HB25 S/N D1001G- and HB40 S/N D1005F-**

838-267C

On rear face of light bracket mount tube, inboard of red reflectors; 2 total

---

**Daytime Reflectors; HB25 S/N D1002G+**

838-267C

On rear face of light bracket mount tube, inboard of red reflectors; 4 total

---

**Daytime Reflectors; HB40 S/N D1006F+**

838-267C

On rear face of light bracket mount tube, inboard of red reflectors; 4 total
Amber Reflectors; HB25 S/N D1001G- and HB40 S/N D1005F-
838-265C

On outboard sides of vertical sections of light bracket mount tubes, on front face of wing tool bars at outboard ends; 4 total

Amber Reflectors; HB25 S/N D1002G+
838-265C

On outboard sides of vertical sections of light bracket mount tubes, on front face of wing tool bars at outboard ends; 4 total

Amber Reflectors; HB40 S/N D1006F+
838-265C

On outboard sides of vertical sections of light bracket mount tubes, on front face of wing tool bars at outboard ends; 4 total
Danger (in Spanish): 818-557C

Advising non-English readers to seek translation
On front face of hitch tube, just left of center; 1 total

Danger: Hitch Crush 818-590C

On front face of hitch tube, each end; 2 total

Danger: Electrocution 838-599C

On front face of center frame tie tube, left of center; 1 total
Danger: Tip Over / Crushing Hazard
858-097C

On front face of center frame tie tube, left and right of center; 2 total
See page 20 and page 24 for more detail on this hazard.

Warning: Pinch/Crush
818-045C

On front face of center frame outer pivot plates; 2 total

Warning: Speed
818-188C

On front face of wing flex base lug; 1 total
Warning: High Pressure Fluid Hazard
818-339C

On front face of hitch tube, just right of center;
1 total

Warning: Pinching or Crushing
818-579C

On front face of outer wing pivot plates;
2 total

Caution: General Instructions
818-587C

On front face of hitch tube, just left of center;
1 total
Caution: Tire Inflation Pressure
858-996C

One on each gauge wheel;
4 total for HB40
2 total for HB25
Great Plains welcomes you to its growing family of new product owners. These 25 and 40 Foot Hipper/Bedders (HB25/40) 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.

**Description of Unit**

The HB25/40 Hipper/Bedder is a 3-point mounted soil preparation implement for use in bedded conditions. The HB25 tool bar has a working width of 21 feet 3 inches to 27 feet 11 inches. The HB40 three section stack-folding tool bar has a working width of 40 feet.

Row units may be spaced for different functions by exchanging or adjusting components.

Multiple points of adjustment are provided.

**Intended Usage**

Use the HB25/40 Hipper/Bedder for building and maintaining beds in conventionally tilled ground. Do not modify the hipper/bedder for use with attachments other than Great Plains options and accessories specified for use with the HB40.

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<th>Description</th>
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<td>25-foot, 8-row (9-unit), 30 inch spacing</td>
</tr>
<tr>
<td>HB25-0836</td>
<td>25-foot, 8-row (9-unit), 36 inch spacing</td>
</tr>
<tr>
<td>HB25-0838</td>
<td>25-foot, 8-row (9-unit), 38 inch spacing</td>
</tr>
<tr>
<td>HB25-0840</td>
<td>25-foot, 8-row (9-unit), 40 inch spacing</td>
</tr>
<tr>
<td>HB40-1236</td>
<td>40-foot, 12-row (13-unit), 36 inch spacing</td>
</tr>
<tr>
<td>HB40-1238</td>
<td>40-foot, 12-row (13-unit), 38 inch spacing</td>
</tr>
<tr>
<td>HB40-1240</td>
<td>40-foot, 12-row (13-unit), 40 inch spacing</td>
</tr>
<tr>
<td>HB40-1630</td>
<td>40-foot, 16-row (17-unit), 30 inch spacing</td>
</tr>
</tbody>
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**Document Family**

- 591-092M Owner's Manual (this document)
- 591-092P Parts Manual (HB25/40)

**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.

**Definitions**

The following terms are used throughout this manual.
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 front face of the main tool bar truss.

Record your HB25/40 Hipper/Bedder model and serial number here for quick reference:

Model Number:__________________________
Serial Number: _________________________

Further Assistance

Great Plains Manufacturing, Inc. and your Great Plains dealer want you to be satisfied with your new implement. If for any reason you do not understand any part of this manual or are otherwise dissatisfied, please take the following actions first:

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.

If your dealer is unable to resolve the problem or the issue is parts related, please contact:

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

Or go to www.greatplainsag.com and follow the contact information at the bottom of your screen for our service department.
Preparation and Setup

This section helps you prepare your tractor and HB25/40 Hipper/Bedder for use. You must level the implement, hook up the implement hydraulics to the tractor, and check that the hydraulics have been bled.

**Post-Delivery/Seasonal Setup**

On initial delivery, use with a new tractor, and seasonally, check and as necessary, complete these items before continuing to the routine setup items:

- Bleed hydraulic fold system (page 30).
- Wing leveling and alignment (page 18).
- De-grease exposed cylinder rods if so protected at last storage.

**Pre-Planting Setup**

Complete this checklist before routine setup:

- Read and understand “**Important Safety Information**” starting on page 1.
- Check that all working parts are moving freely, bolts are tight, and cotter pins are spread.
- Check that all grease fittings are in place and lubricated. See “**Lubrication**” on page 31.
- Check that all safety decals and reflectors are correctly located and legible. Replace if damaged. See “**Safety Decals**” on page 4.
Hitching Tractor to Implement
Check/Change Hitch Configuration

Choose a hitch option compatible with the tractor 3-point. The HB25/40 has three ASABE S217 / ISO 730-1 hitch configurations:
- Category 3N (narrow, 80 to 225 hp)
- Category 3W (wide, 80 to 225 hp)
- Category 4 (N or W, 180 to 400 hp)
Changing between categories requires exchanging pins and bushings at the implement hitch.

Top Link
Refer to Figure 4

For all hitch categories, this pin:
\[ \text{805-291C PIN CLVS 1.75X4.38 USBL} \]
is left in place in the top front center holes.

For Category 4, move (as needed) this pin:
\[ \text{805-119C PIN HTCH 1.25X4.50 USBL} \]
to the top rear center holes.

For Category 3, move (as needed) this pin:
\[ \text{805-119C PIN HTCH 1.25X4.50 USBL} \]
to the front mid center holes.

Lower Links
Refer to Figure 4

To change the lower links, remove all pins, bushings and spacers at the bottom front 2-point locations.

For Category 3N, relocate:
\[ \text{591-031H CAT 3 WIDE BUSHING WELDMENT} \]
to the inside face of the inside plates of the bottom front 2-point holes. Relocate
\[ \text{591-057H CAT 3 HITCH PIN SUPPORT SPACER} \]
to the inside face of the outside plates of the bottom front 2-point holes. Secure each with 2 bolts. Relocate
\[ \text{805-518C PIN HTCH 1.44X8.88 USBL} \]
to the bottom front 2-point holes. Store the removed parts in the lower rear holes.

For Category 3W, relocate:
\[ \text{591-031H CAT 3 WIDE BUSHING WELDMENT} \]
to the outside face of the outside plates of the bottom front 2-point holes. Relocate
\[ \text{591-057H CAT 3 HITCH PIN SUPPORT SPACER} \]
to the outside face of the inside plates of the bottom front 2-point holes. Secure each with 2 bolts. Relocate
\[ \text{805-518C PIN HTCH 1.44X8.88 USBL} \]
to the bottom front 2-point holes. Store any removed Category 4 parts in the lower rear holes.

For Category 4, relocate the following parts from the rear storage holes to the bottom front 2-point holes:
\[ \text{591-032H PIN HITCH 2 X 12 7/8 PLT} \]
\[ \text{591-058H CAT 4N LOWER HITCH PIN SPACER} \]
Store the removed Cat 3 parts in the lower rear holes.
Hitch Tractor

**DANGER**

**Crushing Hazard:**
Do not stand or place any part of your body between the implement and moving tractor. You may be severely injured or killed by being crushed between the tractor and implement. Stop tractor engine and set parking brake before installing the hitch pins.

3. Connect the tractor lift arms to the lower hitch pins. If using a quick hitch, ensure that the pins lock securely.

4. Connect the top link to the upper hitch pin. Front-to-back leveling is performed in later steps.

**Hydraulic Hose Hookup (HB40 Only)**

**WARNING**

**High Pressure Fluid Hazard:**
Relieve pressure before disconnecting hydraulic lines. Escaping fluid under pressure can have sufficient pressure to penetrate the skin causing serious injury. 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. If an accident occurs, seek immediate medical attention from a physician familiar with this type of injury.

Refer to Figure 5

Great Plains hydraulic hoses have color coded handle grips to help you hookup hoses to your tractor outlets. Hoses that go to the same remote valve are marked with the same color.

**Color Coded Hose Handles**

<table>
<thead>
<tr>
<th>Color</th>
<th>Hydraulic Function</th>
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<tr>
<td>Gray</td>
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</tr>
<tr>
<td>Green</td>
<td>Right Wing Fold Cylinders</td>
</tr>
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</table>

To distinguish hoses on the same hydraulic circuit, refer to the symbol molded into the handle grip. Hoses with an extended-cylinder symbol feed cylinder base ends. Hoses with a retracted-cylinder symbol feed cylinder rod ends.

Connect fold hoses to suitable tractor remote valves.
Electrical Hookup
Plug implement electrical lead in tractor seven-pin connector. If your tractor is not equipped with a seven-pin connector, contact your dealer for installation.
Plug in any optional connectors or aftermarket connectors, such as an implement-mounted GPS receiver. For future reference, note any optional connectors on this checklist.
- ☐ Lighting connector (standard)
- ☐ __________________________
- ☐ __________________________

Raise Parking Stands
Refer to Figure 7
1. Use the tractor 3-point hitch to raise the implement just enough to relieve weight on the parking stands ①.
2. Remove pin ② securing the stand.
3. Raise the stand using the welded loop ③.
4. Re-insert the pin in through the lower hole of the frame tube, and the lowest hole of the stand. Secure pin with hairpin cotter.
Leveling the Implement

Center Frame L/R Leveling (HB25/40)
1. Hitch the hipper/bedder to a tractor (page 15).
2. Raise the implement. Unfold it (page 21).
   Refer to Figure 8
3. Adjust the tractor 2-point lift arms so that the center section tool bar is level.

Wing Leveling (HB40 only)
Refer to Figure 9
4. Check wing for level at the top of the tool bar.
   Refer to Figure 10
To adjust wing level:
5. Loosen the jam nut ① at the upper link arm adjuster.
6. Remove and save the fasteners ② securing the clip lock ③.
7. Rotate the adjust nut ④ until the wing is level.
8. Reinstall the clip lock. Secure the jam nut.

Front-to-Back Leveling (HB25/40)
See “Front-to-Back Leveling” on page 25. This adjustment needs to be completed in field conditions.
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 HB25/40 Hipper/Bedder to the field.

- Carefully read “Important Safety Information” on page 1.
- Lubricate implement as indicated under “Lubrication” on page 31.
- Check all tires for proper inflation. See “Specifications and Capacities HB25” on page 36.
- Check all tires for proper inflation. See “Specifications and Capacities HB40” on page 35.
- Check all bolts, pins, and fasteners. Torque as shown in “Torque Values Chart” on page 42.
- Check implement 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.
- Perform all beginning-of-season and daily service items under “Maintenance” on page 29.

Wing Lock Pins (HB40 only)

Refer to Figure 11

Two lock pins ①, one each wing, are provided for unusual situations. Normally, these are not used, and are stored in upper holes ② of the wing weldments.

**NOTICE**

**Machine Damage Risk:**

*These pins MUST NOT be in the lower lock holes ③ during fold or unfold, or machine damage may result. Move the pins to the storage holes ② for folding operations. If never used, remove them from the implement entirely.*

The combination of hipper/bedder discs, wing weight and hydraulic lock-up (Neutral) normally suffices to keep the wings level in the field.

To lock the wings at level:
1. Fully unfold the implement (page 21).
2. Remove the retaining pin ④.
3. Move the lock pin ① to the lower holes ③.
4. Re-secure the retaining pin.
Folding (HB40 only)

Fold the implement for movements on public roads and between fields with narrow clearances. Do not use the folded configuration for parking or storage.

⚠️ DANGER

Tip Over / Crushing Hazard and Equipment Damage Risk:
Never unhitch a folded implement. A folded implement could topple backward or forward, causing serious injury or death, and certain severe equipment damage. When unhitched, the implement is supported at the rear only by row unit tools and spring tension. Slopes, soft soils, and soils later softened by rain are particularly dangerous.

⚠️ DANGER

Electrocution Hazard:
Avoid overhead lines when folding and transporting. When folded and lifted, the implement requires clearance of at least 14 feet, which is high enough to contact low-hanging lines. Touching the implement or tractor completes a circuit to ground, and can result in serious injury or death. At higher voltages, shock can occur without direct contact.

⚠️ WARNING

Crushing Hazard:
Bystanders could be crushed between the folding implement wings and the implement center frame, or caught in the folding mechanism. To avoid serious injury or death, keep all bystanders well away during implement operation.

1. Hitch tractor (page 15).
2. Move to level ground. Be aware of vertical clearance needed to fold implement.
3. Put tractor in Park with parking brake engaged.
4. Verify that the wing lock pins are not installed in the lower lock holes (page 19).
5. Clear all persons from on or near the implement.

Refer to Figure 12

6. Use the tractor 3-point hitch to raise the implement slightly (so that the rear of the row units are off the ground).
7. Slowly move fold circuit lever(s) to Retract. Observe the fold operation.
8. Wait for both wings to reach the fully folded position. Set tractor remote(s) to Neutral to hold at folded.

For 36” row spacing, stop plates must be installed (591-113H) so that the wing does not fold all the way. This is to insure that the row unit does not interfere with the frame during transport.
Unfolding (HB40 only)

**WARNING**

*Crushing Hazard:* 
Bystanders could be crushed under the wings or caught in the wing fold mechanisms. To avoid serious injury or death, keep all persons well away during implement unfold.

Unfold the implement for adjustments, field operations, maintenance, parking and storage.

1. Unless the implement was folded, with the currently hitched tractor, only a short time ago, check for evidence of oil leaks. Check the ground at hitch connections, hose fittings and under cylinders.
2. Be aware of vertical and horizontal clearances needed to unfold the implement.
3. Put tractor in Park with parking brake engaged.
4. Verify that the wing lock pins are not installed in the lower lock holes (page 19).
5. Clear all persons from on or near the implement.
6. Use the tractor 3-point hitch to raise the implement so that the rear of the center row units are off the ground.
7. Slowly move fold circuit lever(s) to Extend. Observe the unfold operation.
8. Wait for both wings to reach the fully unfolded position. Set tractor remote(s) to Neutral to lock at unfolded.

**Independent Fold**

HB40 models have independent left and right fold circuits. In the field, one wing may be partially or completely folded to clear obstacles or perform point row operations.

**DANGER**

*Tipping Hazard:*
Never unhitch, park or store a partially folded implement. A partially folded implement could topple backward or forward immediately or at some later time, causing serious injury or death, and certain severe equipment damage. When unhitched, the implement is supported at the rear only by row unit tools and spring tension. Slopes, soft soils, and soils later softened by rain are particularly dangerous.

Do not transport partially folded. Clearance is insufficient and steering may be unstable due to reduced tire traction on one side.

**NOTICE**

*Equipment Damage Risk:*
Do not leave a partially folded implement lifted for extended periods of time. This places a needless unbalance load on the tractor’s lower lift arms.
Transporting the Hipper/Bedder

⚠️ DANGER

**Loss of Control Hazard:**
Ensure that the towing vehicle is adequate for the task. Using an inadequate tow vehicle is extremely unsafe, and can result in loss of control, serious injury and death. To reduce the hazard, use only a 3-point towing vehicle that is both rated for the implement load, and properly ballasted for the load.

Refer to the table at right for typical weights of HB40 configurations. Center of gravity ranges from 21 to 27 inches (53 to 69 cm) behind the center-line of the lower 3-point hitch pins.

If your towing vehicle is marginal for the upper end of the weight range, have your implement weighed at a scale.

⚠️ DANGER

**Electrocution Hazard:**
Avoid overhead lines transporting. When folded and lifted, the implement requires clearance of at least 14 feet, which is high enough to contact low-hanging lines. Touching the implement or tractor completes a circuit to ground, and can result in serious injury or death. At higher voltages, shock can occur without direct contact.

⚠️ CAUTION

**Braking and Loss of Control Hazard:**
Do not exceed 20 mph (32 km/H) when driving straight.

Do not exceed 13 mph (22 km/h) in turns. The weight of the implement can cause under-steer, and the height of the implement is a tipping hazard.

**Transport Checklist**
Before transporting the implement check the following items.

- Transport only with a tractor of proper size and adequate ballast. See “Specifications and Capacities HB40” on page 35.
- Transport only with a tractor of proper size and adequate ballast. See “Specifications and Capacities HB25” on page 36.
- Hitch implement securely to tractor. See “Hitching Tractor to Implement” on page 15.
- Plug implement safety lights into tractor seven-pin connector.
- Make sure implement is folded properly. See “Folding (HB40 only)” on page 20. Raise the implement for adequate ground clearance.
- Comply with all national, regional and local safety laws when traveling on public roads.
- Travel with caution.

---

### Table: Implement Models and Weight Ranges

<table>
<thead>
<tr>
<th>Implement Model</th>
<th>Weight Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>HB25-0830</td>
<td>4,900 to 5,700 pounds</td>
</tr>
<tr>
<td>HB25-0836</td>
<td>5,100 to 5,900 pounds</td>
</tr>
<tr>
<td>HB25-0838</td>
<td>5,100 to 5,900 pounds</td>
</tr>
<tr>
<td>HB25-0840</td>
<td>5,100 to 5,900 pounds</td>
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<tr>
<td>HB40-1236</td>
<td>9,600 to 11,000 pounds</td>
</tr>
<tr>
<td>HB40-1238</td>
<td>9,600 to 11,000 pounds</td>
</tr>
<tr>
<td>HB40-1240</td>
<td>9,600 to 11,000 pounds</td>
</tr>
<tr>
<td>HB40-1630</td>
<td>10,800 to 12,400 pounds</td>
</tr>
</tbody>
</table>
Field Operations (HB25/40)

After unfolding at the field, leave the fold circuit(s) in Neutral to lock the wings at unfolded. To more firmly lock the wings at level, use the wing lock pins (HB40 only) (page 19). Do not use lock pins if your practice is to fold slightly at turn lifts.

Bed Construction

Operate the bedder at 5 to 8 mph (8 to 13 km/h) to throw up beds. Do not run the bedder any deeper than necessary. High speeds and shallow depths throw up uniform beds. Low speeds and deep depth settings push the soil and may cause bulldozing in front of the gangs. Vary the gang angle to suit your ground conditions. Staggered gangs work well in most soil conditions and layer soil into smooth, somewhat rounded beds. Opposed gangs make higher, pointed beds and generally operate well at high speeds, but clog more easily in heavy, moist soil or trashy conditions.

Operations Checklists

Hitching
- Hitch tractor 3-point, lower arms first (page 16).
- Hookup hydraulic hoses (page 16).
- Hookup electrical connections (page 17).

Transport
- If the towing vehicle has not been previously used with this implement, check its rated list and towing capacity vs. the implement weight (page 22). Ballast as required.

If implement is unfolded:
- Check that wing lock pins are not in lock configuration (page 19).
- Fold implement (HB40 only)(page 20).
- Raise parking stands (page 17).
- Check the lights are working.
- Raise implement to a height providing adequate transport clearance. Set lift circuit to Neutral.
- Travel with caution (page 22).
- Check that wing lock pins are not in lock configuration (page 19).
- Fold implement (HB40 only)(page 20).
- Raise parking stands (page 17).
- Check the lights are working.
- Raise implement to a height providing adequate transport clearance. Set lift circuit to Neutral.
- Travel with caution (page 22).

Field Start (wings/folding HB40 only)
- Check that wing lock pins are not in lock position (page 19).
- Unfold the implement (HB40 only)(page 21).
- Lock wings if field work requires it (page 19).
- Set up row tools (page 26).
- Check levels (page 18 and page 25).
- Position rows inside field edge. Lower tool bar to preset height. Pull forward.

Field Turns
- Lift implement.
- Fold wings up slightly if turn clearance requires it, and wing lock pins are not installed.
- Make turn.
- Unfold.
- Lower and pull forward.

End Field Work
- Lift implement.
- If employed, move lock pins from lower locking holes to upper storage holes (page 19).
- Fold implement.
- Travel with caution (page 22).
Parking
For long-term parking, see also “Storage” below.
1. Choose a parking location that has room for unfolding, is level, has firm soil and is unlikely to develop soft soil in rain. With the implement still hitched, maneuver it to the parking location.

If the implement must be parked folded (HB40 only), leave it hitched to the tractor. Skip steps 2, 4 and 7.
2. Unfold the implement (HB40 only)(page 21).
   Set the fold circuit(s) to Float.
3. Lower the implement to just above ground level at the rear of the row units. Set the tractor remote to Neutral to hold at slight lift. Shut off the tractor and remove the key.
   Refer to Figure 15
4. Unplug implement hydraulic (HB40 only) hoses and electrical lines from tractor.
5. Remove the hairpin cotter at a stand pin ①. Support a stand at its grip handle ②. Remove the pin.
   Lower the stand until the top holes are aligned with the top holes of the frame tube.
   Re-insert the main pin and secure with cotter.
   Repeat for the other wing.
6. Start the tractor.
   Lower the 3-point hitch until the implement is supported by stands and row units.
7. Disconnect the hitch arms and link.

Storage
Store the hipper/bedder where children do not play. If possible, store the implement inside for longer life.
1. Thoroughly clean implement.
2. Park the implement at the storage location as per “Parking” above.
3. Lubricate areas noted under “Lubrication” beginning on page 31. Apply heavy grease to exposed cylinder rods.
4. Inspect implement for worn or damaged parts. Make repairs and service during the off season.
5. Use spray paint to cover scratches, chips and worn areas on the implement to protect the metal.
6. Cover with a tarp if stored outside.

Tip Over Crushing Hazard and Equipment Damage Risk:
Never unhitch, park or store a folded implement. A folded implement could topple backward or forward immediately or at some later time, causing serious injury or death, and certain severe equipment damage. When unhitched, the implement is supported at the rear only by row unit tools and spring tension. Slopes, soft soils, and soils later softened by rain are particularly dangerous.
To get full performance from your hipper/bedder, you need an understanding of all component operations, and many provide adjustments for optimal field results.

### Adjustments

<table>
<thead>
<tr>
<th>Adjustment</th>
<th>Page</th>
<th>The Adjustment Affects:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hitching Tractor to Implement</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Check/Change Hitch Configuration (HB40 only)</td>
<td>15</td>
<td>Safe and stable implement operation</td>
</tr>
<tr>
<td><strong>Frame Adjustments</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Center Frame L/R Leveling (HB25/40)</td>
<td>18</td>
<td>Consistent result across all rows</td>
</tr>
<tr>
<td>Wing Leveling (HB40 only)</td>
<td>18</td>
<td>Consistent result across all rows</td>
</tr>
<tr>
<td>Front-to-Back Leveling</td>
<td>25</td>
<td>Correct row unit operation</td>
</tr>
<tr>
<td>Depth Control</td>
<td>26</td>
<td>Bed Shape</td>
</tr>
<tr>
<td>Disc Angle Adjustments</td>
<td>26</td>
<td>Summary</td>
</tr>
<tr>
<td>Bedding Disc Adjustments (HB25/40)</td>
<td>26</td>
<td>Bed shoulder cultivation</td>
</tr>
</tbody>
</table>

#### Frame Adjustments (HB25/40)

**Front-to-Back Leveling**

For the rows to run level at the design down-force, the tool bar must be level with the ground at the desired tool height. Perform this adjustment on level ground 1 in field conditions.

Refer to Figure 16

1. Adjust the row unit components (page 26) for desired tool running depth relative to ground level 3.
2. Adjust the tractor upper link 2 until the top of the tool bar 3 is level.
3. Re-check all settings and adjustments. Set a lower stop for the 3-point hitch.

![Figure 16](38062)

Front-to-Back Leveling
Disc Angle Adjustments

Refer to Figure 17

Discs are set at center ① from factory. From bottom front to bottom back, row units can be adjusted approximately 10° left or right ② from center by repositioning the bolt. The variable pitch allows a wide variety of bed shapes. Generally:

large pitch angles build high beds
shallow pitch angles build shallow beds.

Figure 17
Composite HB40 Row

Depth Control

The working depth of the bedder is controlled by the tractor’s three-point hitch system or by the bedder gauge wheels.

The adjustable stops on the three-point hitch control lever can be used to lower the bedder to a preset depth. When the bedder is equipped with gauge wheels, the jack ① on each gauge wheel should be adjusted to vary the working depth of the bedder.

Figure 18
Gauge Wheel and Jack
(HB25 S/N D1000G-, HB40 S/N D1007F-)

Figure 19
Gauge Wheel and Jack
(HB25 S/N D1001G+, HB40 S/N D1008F+)

NOTICE

Equipment Damage Risk:
Do not back up with row units in the ground. To do so may cause tool damage.
Scrapers Adjustment (Option HB25/40)

This adjustment needs to be made as scrapers wear, and when they are replaced.

**CAUTION**

*Sharp Object Hazard:*

*Be cautious when working near the disc and scraper. The edges may be sharp.*

Refer to Figure 20 (gap exaggerated for clarity)

1. At each row, check the gap between the scraper and the disc. The suggested setting is: 1/8 inch (0.13 inch).

To adjust the scraper:

2. Loosen the U-bolt nuts 1 at the slots.
3. Slide the scraper assembly 2 down until the correct gap is achieved. Keep it centered on the disc. Tighten the nuts.

Further scraper angle adjustment is made by loosening the blade nuts 3. The scraper blade 4 will pivot on the upper bolt 5.

Once desired angle is achieved, tighten bolts.

If the scraper reaches the end of its slots, and the gap is larger than 3/32 inch, the scraper is worn out and must be replaced. Do not allow the scraper to run on the end bell as immediate damage to the end bell will occur.
## Troubleshooting

### General Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Furrows too shallow</td>
<td>Parallel arms not level.</td>
<td>Adjust hitch height.</td>
</tr>
<tr>
<td></td>
<td>Gang angle too shallow.</td>
<td>Adjust gang angle (page 26).</td>
</tr>
<tr>
<td>Mud build-up on discs</td>
<td>Damaged or mis-adjusted scraper.</td>
<td>Adjust or replace scraper (page 27).</td>
</tr>
<tr>
<td></td>
<td>Conditions too wet.</td>
<td>Wait for drier conditions.</td>
</tr>
<tr>
<td>Rows running too deep (Bulldozing)</td>
<td>Discs set too deep.</td>
<td>Raise tool. Check tool angle.</td>
</tr>
<tr>
<td></td>
<td>Speed too slow.</td>
<td>Increase speed.</td>
</tr>
</tbody>
</table>
Maintenance and Lubrication

Maintenance
Proper servicing and maintenance is the key to long implement life. With careful and systematic inspection, you can avoid costly maintenance, downtime, and repair. Always turn off and remove the tractor key before making any adjustments or performing any maintenance.

WARNING

Crushing Hazard:
Always have transport locks in place and frame sufficiently blocked up when working on implement. You may be severely injured or killed by being crushed under the falling implement.

High Pressure Fluid Hazard:
Check all hydraulic lines and fittings before applying pressure. Fluid escaping from a very small hole can be almost invisible. Use paper or cardboard, not body parts, and wear heavy gloves to check for suspected leaks. Escaping fluid under pressure can have sufficient pressure to penetrate the skin. If an accident occurs, seek immediate medical assistance from a physician familiar with this type of injury.

1. After using your implement for several hours, check all bolts to be sure they are tight.
2. Keep disk scrapers properly adjusted.
3. Clean implement on a regular basis. Regular and thorough cleaning will lengthen equipment life and reduce maintenance and repair.
4. Lubricate areas listed under “Lubrication” on page 31.
5. Replace any worn, damaged, or illegible safety labels by obtaining new labels from your Great Plains dealer.
6. It is essential that gang bolts be kept tight to prevent axle bending, blade breakage, end bell breakage and damage to other gang parts. Tighten gang bolts to 800 lbs ft. Gang parts tend to wear on a bevel when the plow is operated with a loose gang bolt. This reduces the contact area between mating gang parts. Therefore, it is often difficult to keep a gang bolt tight if it has been operated in a loose condition.
7. After such a gang bolt has been properly torqued, torque again after about 30 minutes of operation, again after 4 or 5 hours of operation and again after 8 to 10 hours of use. This will assure that proper gang bolt tension is maintained while the mating components are seating. If the gang bolt will not stay tight, the gang should be completely disassembled and all parts carefully inspected. Replace any damaged part before assembling the gang.
Bleeding Fold Hydraulics (HB40 only)

To function properly, the hydraulics must be free of air. If hydraulics have not been bled, they will operate with jerky, uneven motions and could cause wings to drop rapidly during folding or unfolding. If hydraulics were not bled during initial implement setup or if you replace a part in hydraulic system during the life of the implement, complete the following procedures.

Unfolded Bleeding

Refer to Figure 21

1. Check hydraulic fluid level in tractor reservoir and fill to proper level. Add fluid to system as needed.

2. With implement unfolded and fold cylinders completely extended, disconnect rod end pins and swing the cylinders so they will not contact anything when extended.

3. Loosen rod end hose fittings ① at a JIC connection.

Do not loosen an O-ring boss (ORB) connection for bleeding. Bleeding at an ORB damages the seal.

4. Slowly supply oil to rod end of fold cylinders until oil appears at loosened hose fitting. Tighten fitting and completely retract fold cylinders.

5. With cylinders completely retracted, loosen base end hose fittings ② at JIC connection.

6. Slowly supply oil to base end of fold cylinders until oil appears at loosened hose fitting. Tighten base end hose fitting and cycle fold cylinders in and out several times.

7. Re-pin cylinder rod clevises.

WARNING

High Pressure Fluid Hazard:

Relieve pressure before disconnecting hydraulic lines. Escaping fluid under pressure can have sufficient pressure to penetrate the skin causing serious injury. 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. If an accident occurs, seek immediate medical attention from a physician familiar with this type of injury.
Lubrication

Cylinder Base Pins (HB40 only)

- One each wing; 2 total
- Type of Lubrication: Grease
- Quantity: Until Grease emerges

Wing Flex Link Bottom Pivots (HB40 only)

- One each wing; 2 total
- Type of Lubrication: Grease
- Quantity: Until Grease emerges

Wing Lower Link Arm Inner Pivots (HB40 only)

- One each wing; 2 total
- Type of Lubrication: Grease
- Quantity: Until Grease emerges
Wing Lower Link Arm Outer Pivots (HB40 only)

One each wing; 2 total
Type of Lubrication: Grease
Quantity: Until Grease emerges

Wing Upper Link Arm Inner Pivots (HB40 only)

One each wing; 2 total
Type of Lubrication: Grease
Quantity: Until Grease emerges

Wing Upper Link Arm Outer Pivots (HB40 only)

One each wing; 2 total
Type of Lubrication: Grease
Quantity: Until Grease emerges
Disc Bearings

<table>
<thead>
<tr>
<th>H</th>
<th>25</th>
</tr>
</thead>
</table>

One each row:
12 to 32 total

Type of Lubrication: Grease
Quantity: Until Grease emerges

Gauge Wheel Ratchet Jack (HB25 S/N D1001G+, HB40 S/N D1008F+)

<table>
<thead>
<tr>
<th>H</th>
<th>Seasonal</th>
</tr>
</thead>
</table>

Two each gauge wheel

Type of Lubrication: Grease
Quantity: Until Grease emerges
### Row Unit Option Kits
One of the following row options must be specified with the original implement order.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Option</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>591-093A</td>
<td>820-600C - 24 x 1/4 Notched Blade</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>820-601C - 22 x 1/4 Notched Blade</td>
<td>24</td>
</tr>
<tr>
<td>591-094A</td>
<td>820-609C - 24 x 1/4 Smooth Blade</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>820-610C - 22 x 1/4 Smooth Blade</td>
<td>24</td>
</tr>
<tr>
<td>591-095A</td>
<td>820-601C - 22 x 1/4 Notched Blade</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>820-611C - 20 x 1/4 Notched Blade</td>
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<tr>
<td>591-096A</td>
<td>820-610C - 22 x 1/4 Smooth Blade</td>
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<td>820-606C - 20 x 1/4 Smooth Blade</td>
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<td>591-097A</td>
<td>820-611C - 20 x 1/4 Notched Blade</td>
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<tr>
<td></td>
<td>820-612C - 18 x 1/4 Notched Blade</td>
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<tr>
<td>591-098A</td>
<td>820-606C - 20 x 1/4 Smooth Blade</td>
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<td>820-607C - 18 x 1/4 Smooth Blade</td>
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<tr>
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<td>820-607C - 18 x 1/4 Smooth Blade</td>
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### Scraper Kit Options
Optional scraper kits may be ordered with the implement or at a later time.

<table>
<thead>
<tr>
<th>Part #</th>
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<th>Qty.</th>
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</thead>
<tbody>
<tr>
<td>591-105A</td>
<td>591-123C H/B Scraper Assembly 12-Row RH</td>
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<tr>
<td>591-106A</td>
<td>591-123C H/B Scraper Assembly 16-Row LH</td>
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<tr>
<td>591-134A</td>
<td>591-123C H/B Scraper Assembly 8-Row RH</td>
<td>8</td>
</tr>
</tbody>
</table>

### Gauge Wheel Kits
Optional gauge wheel kits may be ordered with the implement or at a later time.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>591-107A</td>
<td>591-121L Gauge Wheel Assembly LH</td>
<td>2</td>
</tr>
<tr>
<td>591-138A</td>
<td>591-121L Gauge Wheel Assembly LH</td>
<td>1</td>
</tr>
</tbody>
</table>

### Wear Guard Kits
Optional wear guard kits may be ordered with the implement or at a later time.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>591-125A</td>
<td>591-215D Wear Guard</td>
<td>48</td>
</tr>
<tr>
<td>591-126A</td>
<td>591-215D Wear Guard</td>
<td>74</td>
</tr>
<tr>
<td>591-135A</td>
<td>591-215D Wear Guard</td>
<td>32</td>
</tr>
</tbody>
</table>
## Specifications and Capacities HB40

<table>
<thead>
<tr>
<th>Model</th>
<th>HB40</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-1236</td>
</tr>
<tr>
<td><strong>Row Count</strong></td>
<td>12 Rows</td>
</tr>
<tr>
<td></td>
<td>(13 Row Units)</td>
</tr>
<tr>
<td><strong>Row Spacing</strong></td>
<td>36 inches</td>
</tr>
<tr>
<td><strong>Working (Frame) Width</strong></td>
<td>41 feet 0 inches</td>
</tr>
<tr>
<td><strong>Swath</strong></td>
<td>432 inches</td>
</tr>
<tr>
<td><strong>Transport Width</strong></td>
<td>25 feet 9 inches</td>
</tr>
<tr>
<td><strong>Working Length (Max.)</strong></td>
<td>53 1/2 to 82 1/2 inches</td>
</tr>
<tr>
<td><strong>Working Height</strong></td>
<td>6 feet 2 inches</td>
</tr>
<tr>
<td><strong>Transport Height</strong></td>
<td>14 feet 8 inches with 8 inch disc clearance in transport</td>
</tr>
<tr>
<td><strong>Minimum Tractor Req.</strong></td>
<td>250 hp</td>
</tr>
<tr>
<td><strong>Hitch</strong></td>
<td>3-Point Category III Wide or IV (N or W)</td>
</tr>
<tr>
<td><strong>Toolbar</strong></td>
<td>7 x 7 x 1/2 inches</td>
</tr>
<tr>
<td><strong>Hydraulic Circuit</strong></td>
<td>Closed- or Open-Center, 1 Remote</td>
</tr>
<tr>
<td><strong>Hydraulic Power Req.</strong></td>
<td>2250 PSI, 2 gal./min.</td>
</tr>
<tr>
<td><strong>Weight Range</strong></td>
<td>9,600 - 11,000 pounds</td>
</tr>
</tbody>
</table>
### Specifications and Capacities HB25

<table>
<thead>
<tr>
<th>Model</th>
<th>HB25</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-0830</td>
</tr>
<tr>
<td>Row Count</td>
<td>8 Rows (9 Row Units)</td>
</tr>
<tr>
<td>Row Spacing</td>
<td>30 inches</td>
</tr>
<tr>
<td>Working (Frame) Width</td>
<td>21 feet 3 inches</td>
</tr>
<tr>
<td>Swath</td>
<td>240 inches</td>
</tr>
<tr>
<td>Transport Width</td>
<td>21 feet 3 inches</td>
</tr>
<tr>
<td>Working Length</td>
<td>53 1/2 inches to 82 1/2 inches</td>
</tr>
<tr>
<td>Working Height</td>
<td>5 feet 4 1/2 inches</td>
</tr>
<tr>
<td>Transport Height</td>
<td>6 feet 4 1/2 inches (1.8m) with 8 inch ground clearance</td>
</tr>
<tr>
<td>Minimum Tractor Req</td>
<td>170 hp</td>
</tr>
<tr>
<td>Hitch</td>
<td>3-Point Category III Wide or IV (N or W)</td>
</tr>
<tr>
<td>Toolbar</td>
<td>7 x 7 x 3/8 inch</td>
</tr>
<tr>
<td>Weight Range</td>
<td>4,900 - 5,700 pounds</td>
</tr>
</tbody>
</table>

### Tire Inflation Chart (HB25/40)

<table>
<thead>
<tr>
<th>Tire Inflation Chart</th>
<th>Tire Warranty Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheel</td>
<td>Tire Size</td>
</tr>
<tr>
<td>Option 50 or 60 Row</td>
<td>20.5X8.0-10</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.

- Firestonewww.firestoneag.com
- Goodyearwww.goodyearag.com
- Titanwww.titan-intl.com
- BKTwww.bkt-tires.com/en
- Gleasonwww.gleasonwheel.com
Dimensions (Field) HB25

Field Length
53.5 to 82.5 in

Field Height
5 feet 4.5 inches

NARROW
30"
Field Width
21 feet 3 inches

WIDE
36, 38, 40,
Field Width
27 feet 11 inches
Dimensions (Field) HB40

Field Length
53.5 to 82.5 in

Field Height
6 feet 2 inches

Field Width
41 feet 0 inches
Dimensions (Transport) HB40

Transport Length
53.5 to 82.5 in

Transport Width
24 feet 8 inches or 25 feet 8 7/8 inches

Transport Height
13 feet 4 inches at zero clearance
### Gauge Wheel Spacing HB25

![Diagram of HB25 Gauge Wheel Spacing](image1)

### Gauge Wheel Spacing HB40

![Diagram of HB40 Gauge Wheel Spacing](image2)

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>-0830</td>
<td>66 inches</td>
<td></td>
</tr>
<tr>
<td>-0836</td>
<td>81 1/2 inches</td>
<td>66 inches</td>
</tr>
<tr>
<td>-0838</td>
<td>86 1/2 inches</td>
<td>81 1/2 inches</td>
</tr>
<tr>
<td>-0840</td>
<td>90 1/2 inches</td>
<td>86 1/2 inches</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1236</td>
<td>206 3/4 inches</td>
<td>66 inches</td>
</tr>
<tr>
<td>-1238</td>
<td>217 3/4 inches</td>
<td>81 1/2 inches</td>
</tr>
<tr>
<td>-1240</td>
<td>229 3/4 inches</td>
<td>86 1/2 inches</td>
</tr>
<tr>
<td>-1630</td>
<td>231 3/4 inches</td>
<td>90 1/2 inches</td>
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</tbody>
</table>
Hydraulic Diagram HB40
## Torque Values Chart

<table>
<thead>
<tr>
<th>Bolt Size</th>
<th>Grade 2</th>
<th>Grade 5</th>
<th>Grade 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>in-tpi</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4-20</td>
<td>7.4 ft-lb</td>
<td>7.4 ft-lb</td>
<td>7.4 ft-lb</td>
</tr>
<tr>
<td>3/16-24</td>
<td>15 ft-lb</td>
<td>15 ft-lb</td>
<td>15 ft-lb</td>
</tr>
<tr>
<td>5/32-24</td>
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<td>3/16-20</td>
<td>43 ft-lb</td>
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<td>1/4-20</td>
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<td>100 ft-lb</td>
<td>100 ft-lb</td>
</tr>
<tr>
<td>3/16-18</td>
<td>105 ft-lb</td>
<td>105 ft-lb</td>
<td>105 ft-lb</td>
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<tr>
<td>1/8-18</td>
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<td>115 ft-lb</td>
</tr>
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<td>3/32-18</td>
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<td>3/32-7</td>
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<td>5/32-3</td>
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<td>7/64-1</td>
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<td>485 ft-lb</td>
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<tr>
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</tr>
<tr>
<td>7/64-0.5</td>
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<td>535 ft-lb</td>
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<tr>
<td>1/8-0.5</td>
<td>545 ft-lb</td>
<td>545 ft-lb</td>
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</tr>
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<td>5/32-0.25</td>
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<tr>
<td>3/32-0.25</td>
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<td>3/32-0.125</td>
<td>605 ft-lb</td>
<td>605 ft-lb</td>
<td>605 ft-lb</td>
</tr>
<tr>
<td>7/64-0.125</td>
<td>615 ft-lb</td>
<td>615 ft-lb</td>
<td>615 ft-lb</td>
</tr>
<tr>
<td>1/8-0.125</td>
<td>625 ft-lb</td>
<td>625 ft-lb</td>
<td>625 ft-lb</td>
</tr>
<tr>
<td>5/32-0.0625</td>
<td>635 ft-lb</td>
<td>635 ft-lb</td>
<td>635 ft-lb</td>
</tr>
</tbody>
</table>

- **5.8**: N·m = newton-meters
- **8.8**: mm x pitch = nominal thread diameter in mm x thread pitch
- **10.9**: ft-lb = foot pounds

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.
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 under normal service conditions for personal use. 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. 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’ judgment 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. Soils containing rocks, stumps or obstructions may void the warranty in its entirety.

Claims under this Warranty must be made to the dealer which originally sold the product and all warranty adjustments must by 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.

Warranty does not cover damage caused by acts of God or accidents.

Warranty does not cover units with excess use or units used to custom farm.
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  amber ...................................................... 7
daytime ..................................................... 6
red .......................................................... 5
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