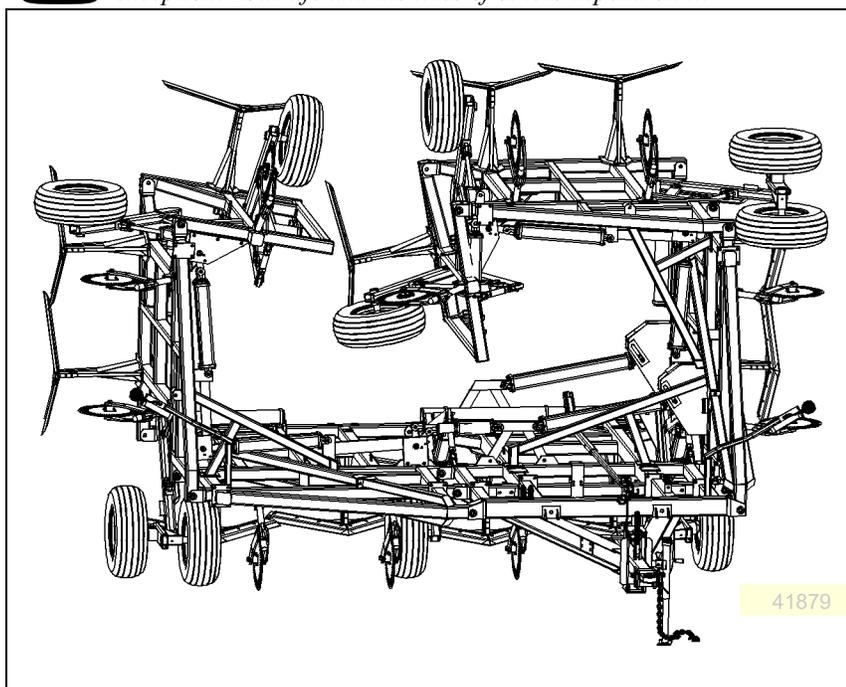


Operator Manual

Plains Plow Series II
9322PP, 9326PP, 9533PP, 9540PP, 9744PP, 9748PP,
9752PP & 9756PP



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.

ORIGINAL INSTRUCTIONS



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Printed 2021-04-13

580-043M

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 with the option(s) weight and measurements.

Model Number	
Serial Number	
Machine Height	
Machine Length	
Machine Width	
Machine Weight	
Year of Construction	
Delivery Date	
First Operation	
Accessories	<hr/> <hr/> <hr/>

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 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.

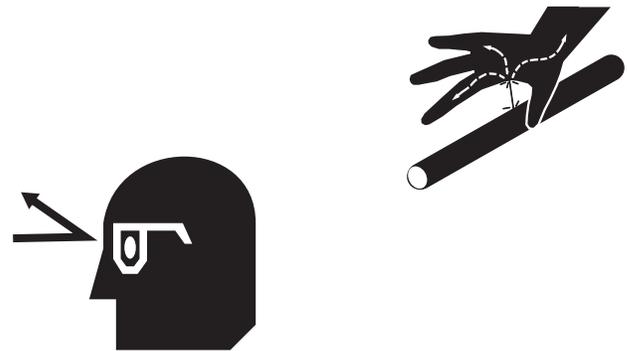
- ▲ *Read and follow chemical manufacturer's instructions.*
- ▲ *Wear protective clothing.*
- ▲ *Handle all chemicals with care.*
- ▲ *Avoid inhaling smoke from any type of chemical fire.*
- ▲ *Store or dispose of unused chemicals as specified by chemical manufacturer.*



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.

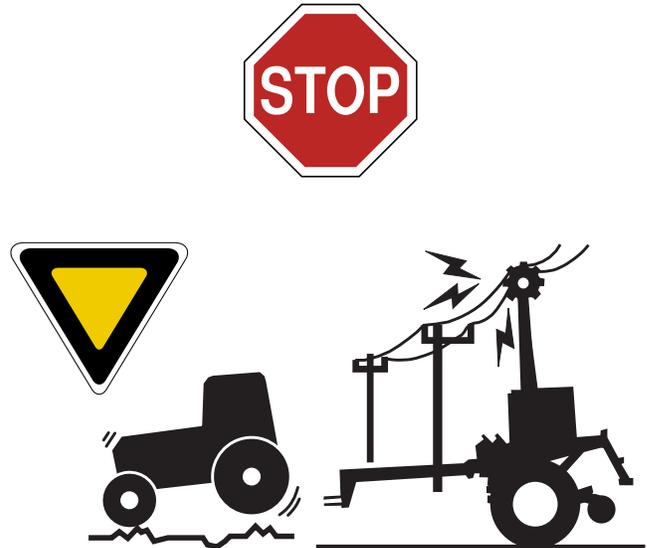
- ▲ *Never allow children to operate equipment.*
- ▲ *Keep all bystanders away from machine during operation.*



Transport Machinery Safely

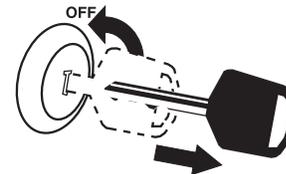
Maximum transport speed for implement is 20 mph (32 kph), 13 mph (22 kph) in turns. Some rough terrains require a slower speed. Sudden braking can cause a towed load to swerve and upset.

- ▲ *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 Plains Plow in case of breakdown on the road.*
- ▲ *Keep clear of overhead power lines and other obstructions when transporting. Refer to transport dimensions under “PP Specifications and Capacities” on page 24.*
- ▲ *Do not fold or unfold the Plains Plow while the tractor is moving*



Shutdown and Storage

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



Tire Safety

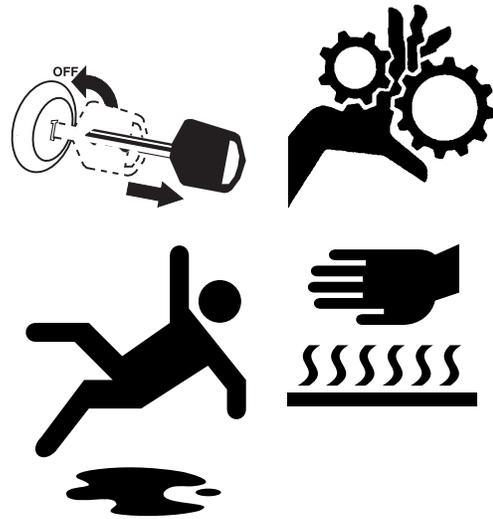
Tire changing can be dangerous and should be performed by trained personnel using correct tools and equipment.

- ▲ *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

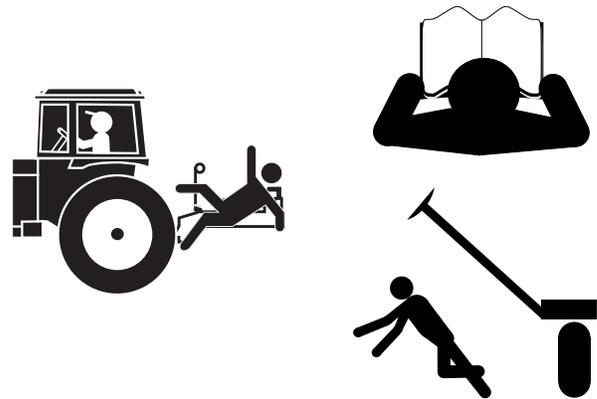
- ▲ *Understand procedure before doing work. Use proper tools and equipment. Refer to this manual for additional information.*
- ▲ *Work in a clean, dry area.*
- ▲ *Lower the machine, put tractor in park, turn off engine, and remove key before performing maintenance.*
- ▲ *Disconnect battery ground cable (-) 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 Plains Plow 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.*

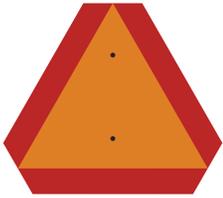


Safety Decals

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.*



818-055C Slow Moving Vehicle Reflector

On the back of the center frame.;
1 total



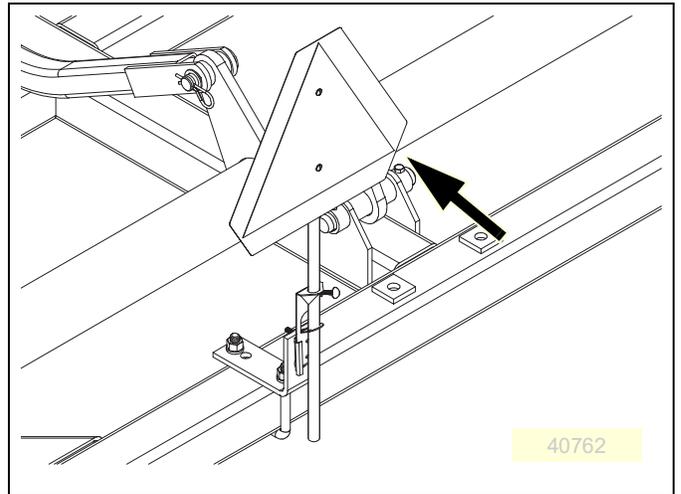
838-615C Amber Reflectors

Two on light bracket and two on center frame. Two on rear of finishing attachment (not shown), visible from side while folded for transport;
6 total

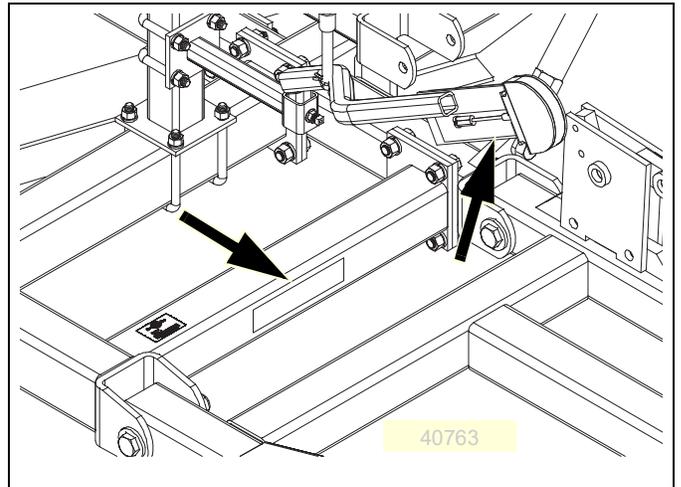
- ▲ *When ordering new parts or components, also request corresponding safety decals.*

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.



40762

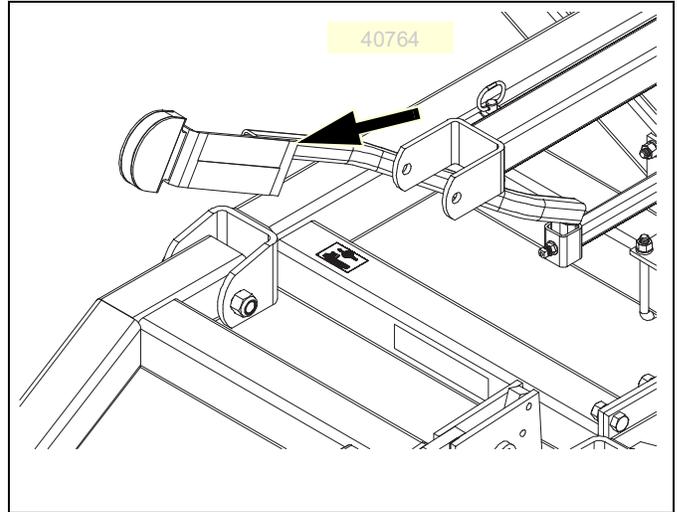


40763



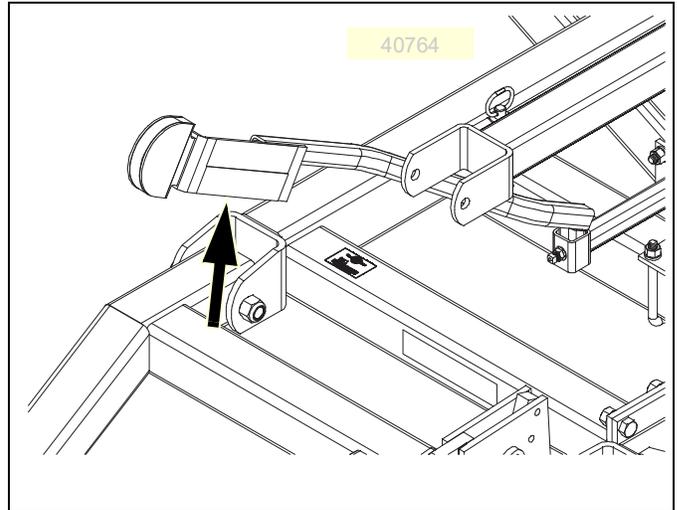
**838-614C
Red Reflectors**

On rear of light brackets (top);
2 total



**838-603C
Orange Reflectors**

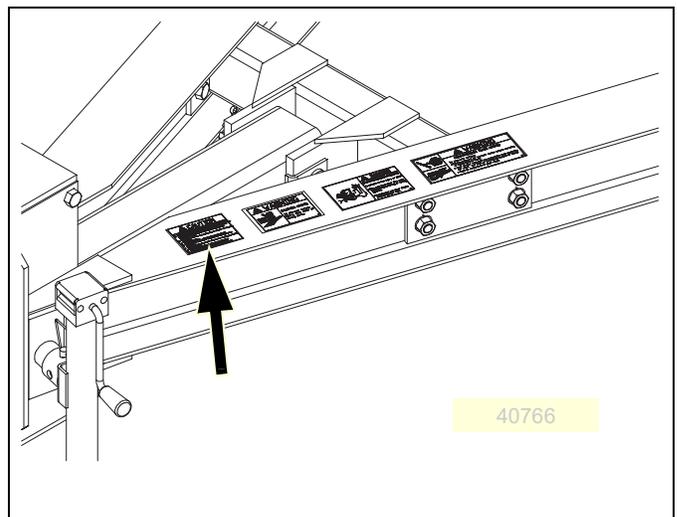
On rear of light brackets (bottom);
2 total

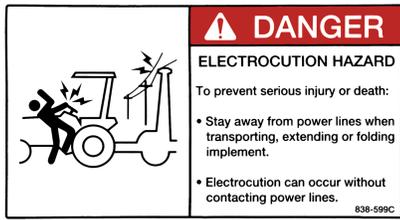


<p>CAUTION</p>
<ol style="list-style-type: none"> 1. Read and Understand the Operator's Manual before using machine. 2. Stop tractor engine, lower machine to the ground, place all controls in neutral, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing, unplugging or fitting. 3. Keep hands, feet, hair and clothing away from earth-working points and blades. 4. Do not allow riders. 5. Clean reflectors, SMV and lights before transporting. 6. Install safety locks before transporting or working beneath components. 7. Add extra lights and use pilot vehicle when transporting during times of limited visibility. 8. Use hazard flashers in tractor when transporting. 9. Install safety chain when attaching to tractor. 10. Review safety instructions with all operators annually. <p style="text-align: right; font-size: small;">838-598C</p>

**838-598C
Caution: Read Operator's Manual**

On top, front of hitch;
1 total

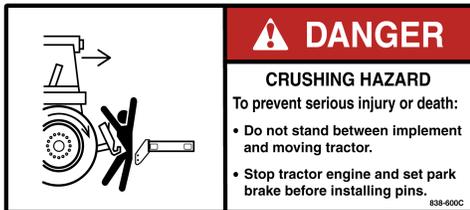
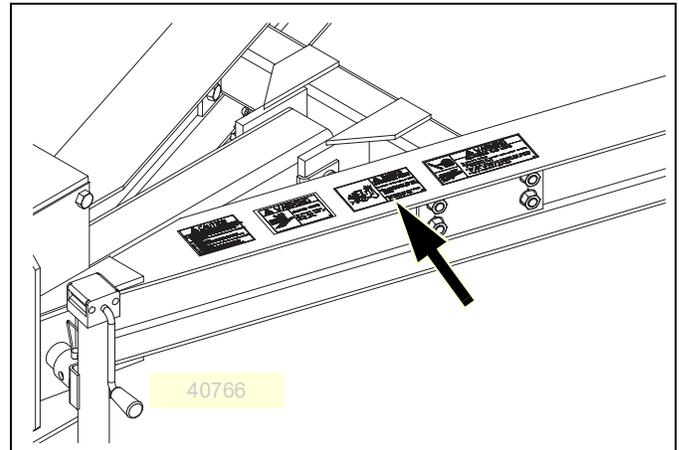




838-599C

Danger: Electrocution Hazard

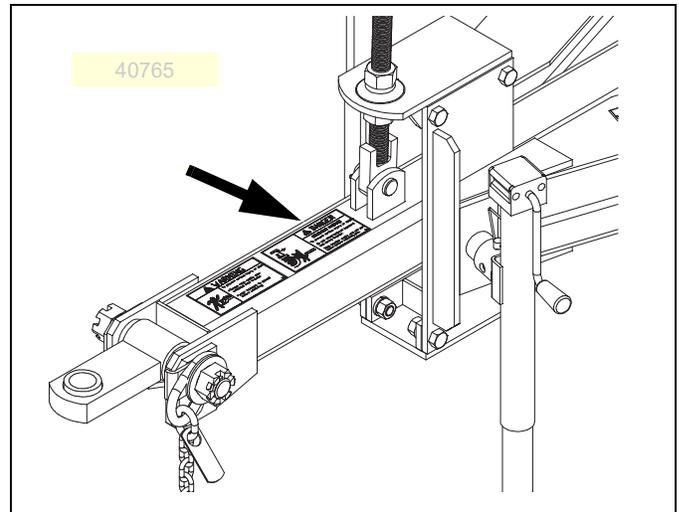
On top, front of hitch;
1 total



838-600C

Danger: Crushing Hazard

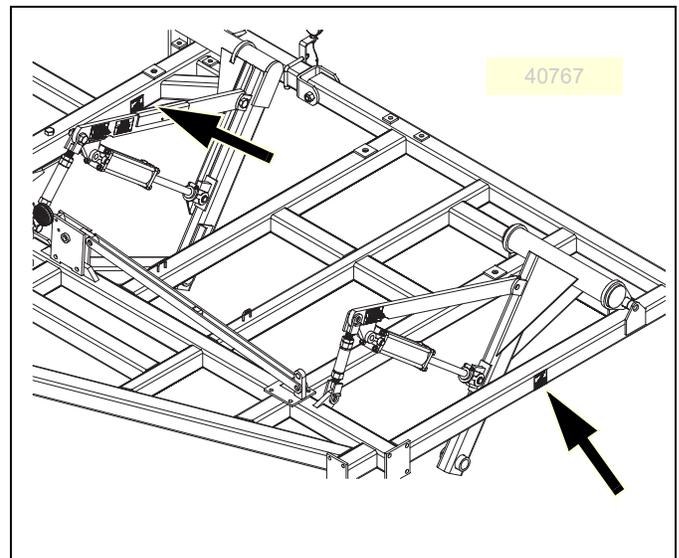
On front of hitch;
1 total



838-602C

Warning: Overhead Wing Hazard

On outside of center and wing frames (both sides);
4 total 3-section
6 total 5-section
7 total 7-section

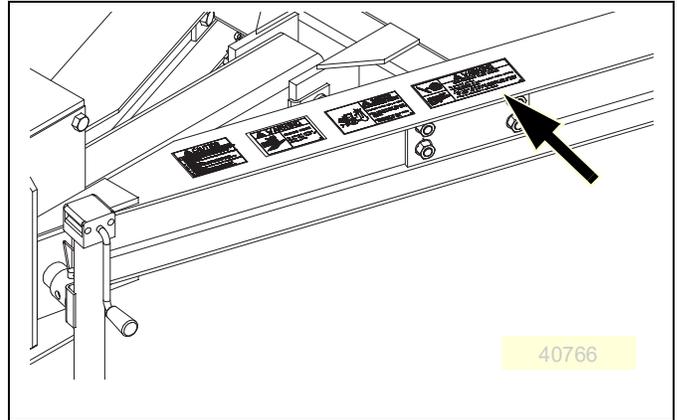




838-094C

Warning: High Pressure Fluid

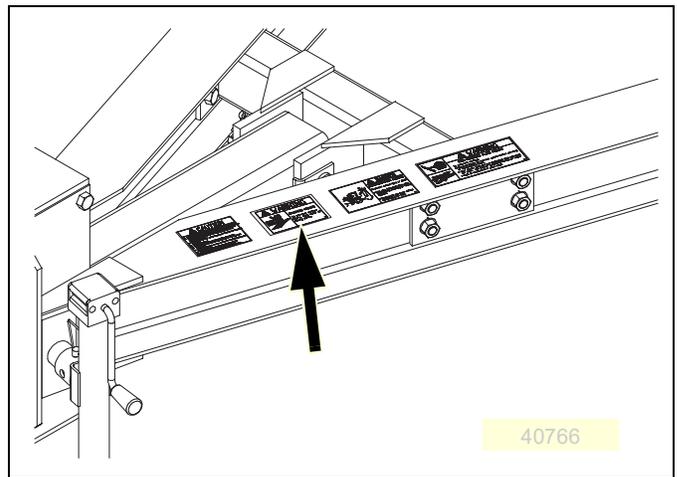
On top, front of hitch;
1 total



838-611C

Warning: Hand Crushing

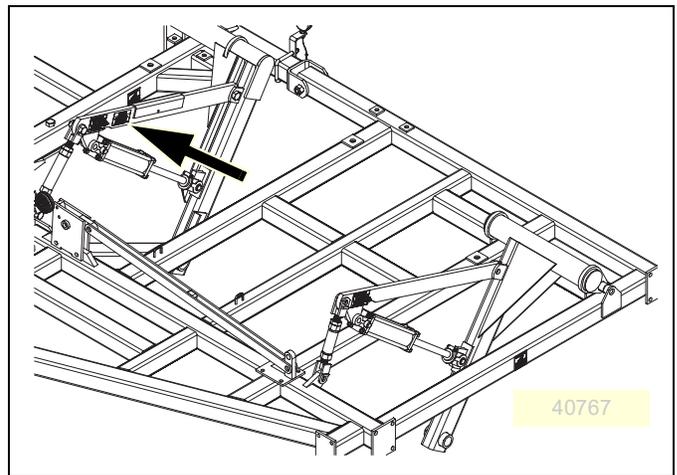
On top, front of hitch;
2 total



838-613C

Notice: Transport Lock

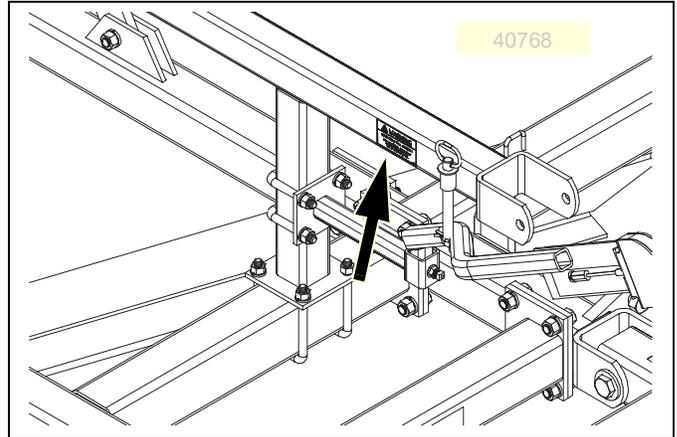
On outside of center frame, cylinder lift arm (both sides);
2 total





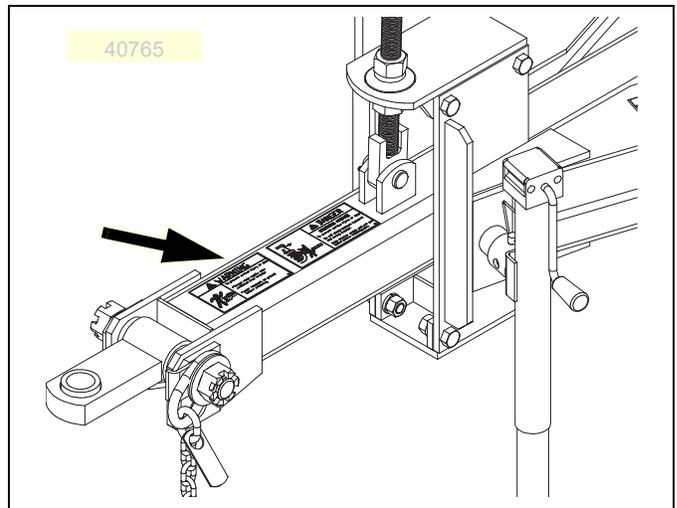
838-612C
Warning: Wings Could Fall Suddenly

On front of wing stop (both sides);
 2 total



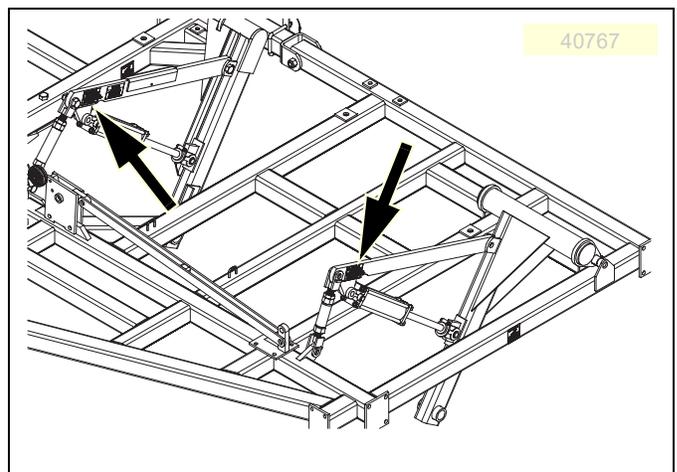
838-606C
Warning: Tongue Rising

On front of hitch;
 1 total



848-271C
Danger: Cutting of Foot

On outside of cylinder lift arms (both sides);
 4 total 3-section
 6 total 5-section
 8 total 7-section





Introduction

Great Plains welcomes you to our growing family of new product owners. The Plains Plow has been designed with care and built by skilled workers using quality materials. Proper setup, maintenance, and safe operating practices will help you get years of satisfactory use from the machine.

Models Covered

9322PP	22-Foot 3-section
9326PP	26-Foot 3-section
9533PP	33-Foot 5-section
9540PP	40-Foot 5-section
9744PP	44-Foot 7-section
9748PP	48-Foot 7-section
9752PP	52-Foot 7-section
9756PP	56-Foot 7-section

Description of Unit

The Plains Plow is a three, five or seven-section V-Blade undercutting tillage tool. Working width ranges from 22 to 56 feet. The implement is designed to undercut, kill weeds, apply fertilizers, break up hardpan, manage residue for greater moisture retention and wind erosion protection.

Document Family

580-043Q-ENG	Assembly Manual
580-043Q	Pre-Delivery Manual
580-043M	Operator Manual (this document)
580-043P	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.

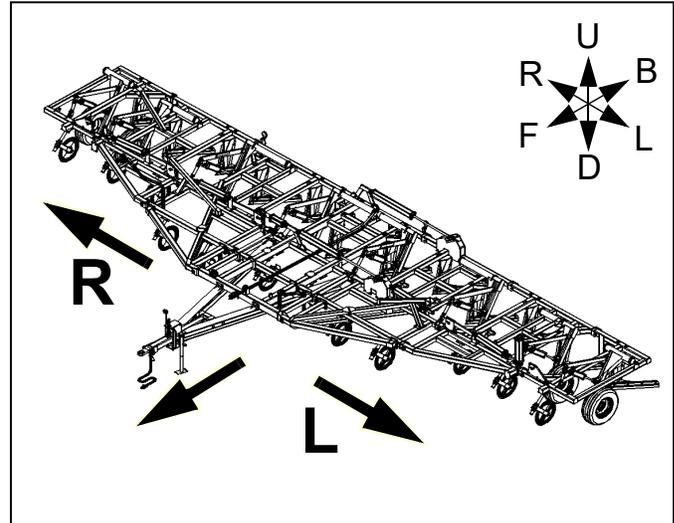


Figure 1
9744PP Plains Plow

43006

Definitions

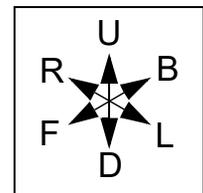
The following terms are used throughout this manual.

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.

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.



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 9322-9756PP Plains Plow 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.

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

Further Assistance

Great Plains Manufacturing, Inc. wants you to be satisfied with you new 9322-9756PP. If for any reason you do not understand any part of this manual or are otherwise dissatisfied with the product 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.

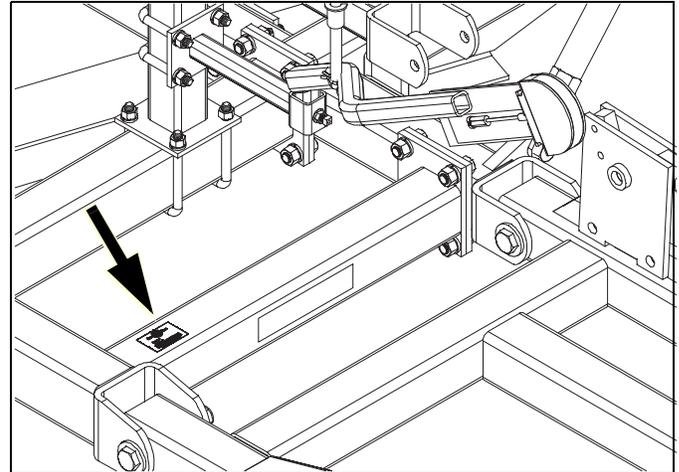


Figure 2
Serial Number Plate

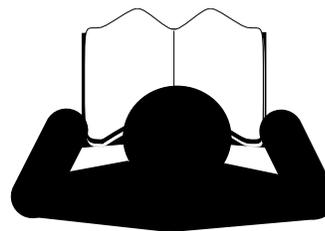
40763



Preparation and Setup

This section helps you prepare your tractor and 9322-9756PP Plains Plow for use, and covers tasks that need to be done seasonally, or when the tractor/Plains Plow configuration changes.

Before using the Plains Plow in the field, you must hitch it to a suitable tractor, inspect systems and level the Plains Plow. Before using the Plains Plow 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 unfold 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 Plains Plow 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 22. 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 Chart**” 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 Plains Plow

⚠ DANGER

Crushing Hazard:

Do not stand or place any body part between Plains Plow and moving tractor. You may be severely injured or killed by being crushed between the tractor and Plains Plow. 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.

5. Raise tractor three-point arms (if equipped) clear up to clear Plains Plow.
6. 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.
7. Hitch the tractor to the Plains Plow using the block or yoke clevis determined by the tractor drawbar. Use the correct size pin for clevis or block.

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

8. Use jack (1) to raise and lower Plains Plow tongue.

Refer to Figure 4

9. After hitching tractor to Plains Plow, store jack on storage tube (2) on center brace bar.
10. Secure safety chain to an anchor on the tractor capable of pulling the unit.

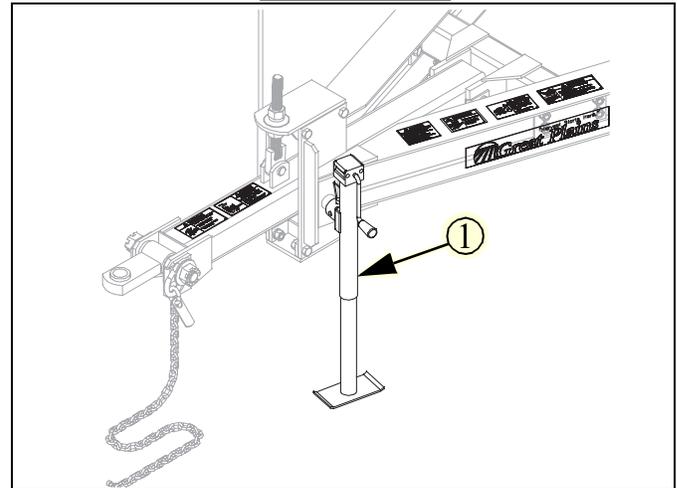
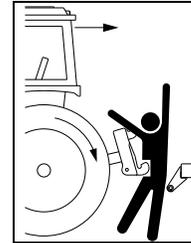


Figure 3
Jack on Tongue

43007

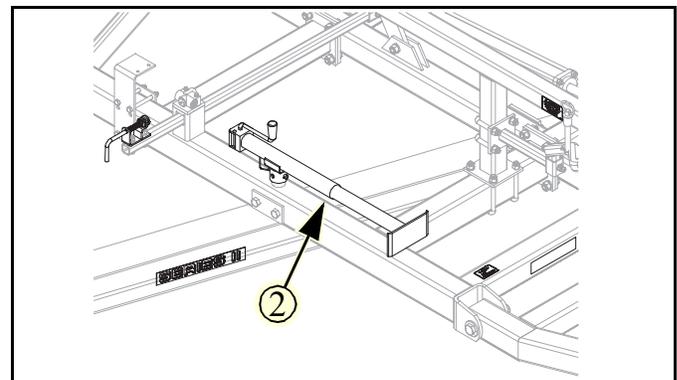


Figure 4
Jack in Storage

43008

Hydraulic Hose Hookup

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

Color	Hydraulic Function
Black	Lift (2 hoses)
Green	Fold (2 hoses)
Yellow	Fold (2 hoses) (Models 9744-9756 center right)

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.



Hose Handles

Refer to Figure 5

To distinguish hoses on the same hydraulic circuit, refer to hose label.

- The hose with an extended-cylinder symbol feeds a cylinder base end.
- The hose with a retracted-cylinder symbol feeds a cylinder rod end.

Secure hoses and cables so that they have sufficient slack for hitch movements, but cannot get caught between moving parts of tractor, Max Chisel or hitch. Failure to safely route and secure hoses and cables could result in damage requiring component repair/replacement, and lost field time.

To distinguish hoses on the same hydraulic circuit, refer to, “**Hydraulic Hose Hookup**” on page 14. Clean all hydraulic couplings and hook hoses to tractor.

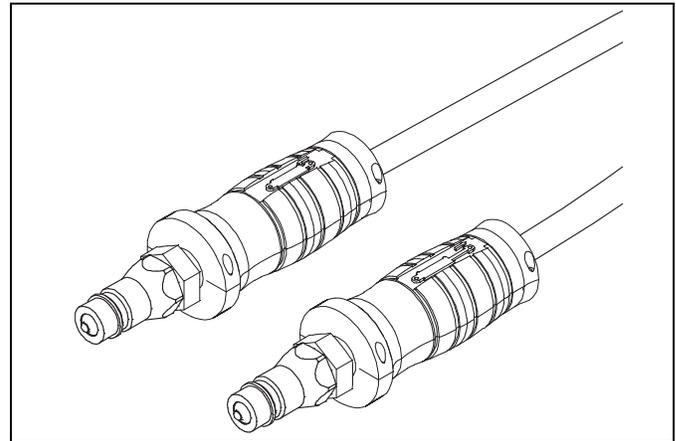


Figure 5
Hose Handles

41552

First Time Field Adjustments

Pre-Leveling of Machine

Side to Side Leveling

Refer to Figure 6

11. Pre-leveling of machine can be done on a concrete slab or level surface. Lower machine so sweeps are 1" off of ground on the center frame. Adjust the long turnbuckles (1) at the front of the frames that do not fold, by loosening jam nut (2) and turning center part of turnbuckle (3) to an initial setting of 19" pin center to center (4). Check the center frame for level, if one side is higher than the other side, extend that side, turnbuckle to bring the center level. (Shorten to bring up, extend to bring down).
12. Re-tighten jam nut (2).
13. After the center frame is level, do the same for each wing frame moving outward from the center frame. The first folding wing (short) turnbuckle initial setting is 17" pin center to center. The second folding wing (short) turnbuckle initial setting is 16³/₄".
14. Make any minor adjustments to these setting to level the machine (shorten to bring up, extend to bring down). The wings may need to be adjusted slightly lower than the center in soft field conditions.

⚠ WARNING

Do not adjust turnbuckle with machine lifted up. Turnbuckle may disassemble and cause machine to fall. Turnbuckle maximum center to center length is 17³/₄"

15. If machine is equipped with coulters, set coulters at 1" to 1¹/₂" above the depth of the sweep blades.
16. You are now ready to operate the machine in the field.

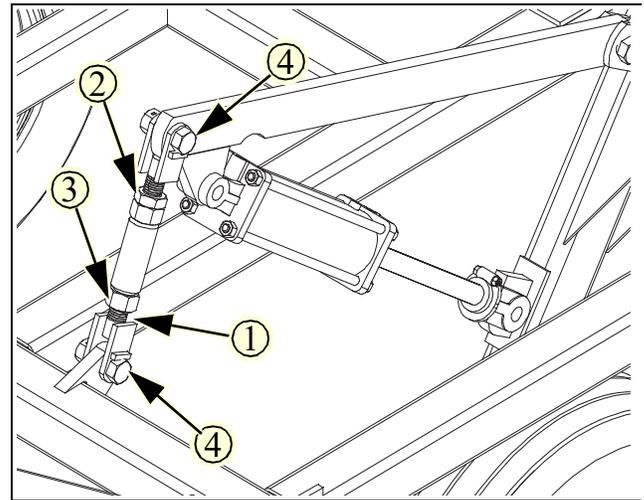


Figure 6
Lift Turnbuckle Adjustment

40991



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 9322-9756PP Plains Plow to the field.

- Carefully read “**Important Safety Information**” on page 1.
- Lubricate Plains Plow as indicated under “**Lubrication**” on page 22.
- Check all tires for proper inflation.
- Check all bolts, pins, and fasteners. Torque as shown in “**Tire Inflation Chart**” on page 25.
- Check Plains Plow 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 Plains Plow**” on page 13 before transporting the Plains Plow.

Check Tractor Capacity and Configuration

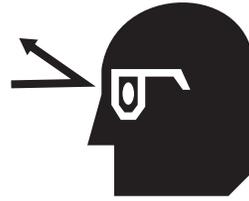
- Consult your tractor manual for 3-point limitations.
- Add weights to tractor as required.

When determining the weight of your Plains Plow, 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 Plains Plow**” on page 13.
- Raise Plains Plow.
- 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.

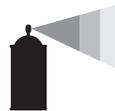
Travel with caution. Allow safe clearance.
Remember that the Plains Plow is wider than the tractor.



WARNING

High Pressure Fluid Hazard:

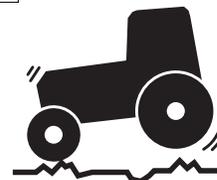
Relieve pressure and shut down tractor before connecting, disconnecting or checking hydraulic lines. Use a piece of paper or cardboard, **NOT BODY PARTS**, to check for leaks. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Escaping fluid under pressure can have 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 Plains Plow with a vehicle that is not adequate, or at high speeds, could lead to loss of vehicle control. Loss of vehicle can result in a serious road accident, severe injury or death. Check that your tractor has enough weight to handle the weight of the Plains Plow. Refer to your tractor's operator manual for capacities and ballast requirements.



Folding Instructions for 5 or 7 Section Plains Plow

5 Section Machines

17. When operating the plains plow, the hydraulic flow settings for the lift system may be set at or near full flow to allow optimum lift and lower cycle times. The fold system flow settings should be reduced to 10-15 gpm (usually $\frac{1}{2}$ full flow on most tractors). This will prevent damage to the fold system during the folding and unfolding process.
18. When folding the machine to transport position, it is important that the outside wing is folded completely before inner wings begin to fold. If the inner wings are folding at the same time as the outer wings, the hydraulic flow is too high and will cause damage to the machine. Reduce the flow! In some cases, if the flow settings are difficult to change, when the inside wing begins to fold before the outside wing is completely folded, center the fold lever. This will allow for the oil to transfer from the outer cylinders to the inner cylinders and the inside wings will fall. Once the outside wings are completely folded, proceed with folding the inner wings.
19. When unfolding the machine, the inner wings need to be completely unfold before the outer wings begin to unfold. If the outer wings are unfolding at the same time as the inner, the flow is too high and damage may occur. If adjusting the flow is difficult on your tractor, you may need to center the hydraulic lever at some point to allow the inside wings to stay ahead of the outer wing. Once the inner wings are completely to the ground, continue the unfolding process for the outer wings.

7 Section Machines

20. When folding or unfolding 7 section machines, it is important that the hydraulic flow is not too high, 10-15 gallon per minute is more than adequate for folding or unfolding. On most tractors, this is about $\frac{1}{2}$ the maximum flow available. Prior to unfolding the plains plow, remove all transport safety pins. Do not remove pins if there is pressure against pins. If pressure exists, pull all the cylinders in, to relieve the pressure from pins.
21. After pins are removed, close the small cylinder between the two sections that remain on the ground. This will make these sections temporarily rigid. Begin the unfolding process. Make sure the inner wings unfold ahead of the outer wings. If the outer wings are unfolding along with the inner, slow the flow down. If this continues at a slower flow rate, center the hydraulic lever to allow the inner wings to get ahead of the outer wings. Once the inner wings are completely unfolded, continue to unfold the outer wings. Once the outer wings are unfolded completely, extend the small cylinders between the center sections to allow these to flex in the field.
22. When folding the 7 section machines, first close the small cylinder between the 2 sections that remain on the ground. Start the folding process. Make sure the outside wings fold completely before the inside wings start to fold. If the inner wings begin to fold too early, slow the outer wings to get ahead of the inner. Once the outside wings are folded completely, fold the inner wings and then the left hand inner most wing. Once unit is completely folded, extend the small cylinder between the two sections on the ground to allow the sections to flex during transport.

 Failure to follow these steps may cause damage to the fold cylinders and to the folding mechanisms and will void the manufactures warranty of these parts.

General Operation and In-Field Adjustments

23. Remove the transport lock pins and unfold the machine. Make sure the fold cylinders are fully extended to fully flex in the field.
24. 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.

Front to Rear Leveling

Refer to Figure 7

25. Lower the machine to the desired working depth and then level the machine from front to rear if needed. Model 9322 will have a turnbuckle to adjust and Models 9326-9756 will have an eyebolt (shown). Loosen jam nut (1) on either the turnbuckle or eyebolt (2) and adjust other nut (1) up or down, moving front of hitch (3) until machine is level front to rear for most conditions. Re-tighten jam nut to secure.
26. The front could be adjusted slightly lower for hard soils. Do not adjust too much lower. Never run machine with the back lower (deeper) than the front.
27. Once the machine is leveled front to rear the treader may be adjusted. In most cases the treader should be allowed to float and will not require additional down pressure.
28. The machine may need some additional adjustment from side to side, See “**Side to Side Leveling**” on page 15. Adjust the inside wings first, then the outside wings.

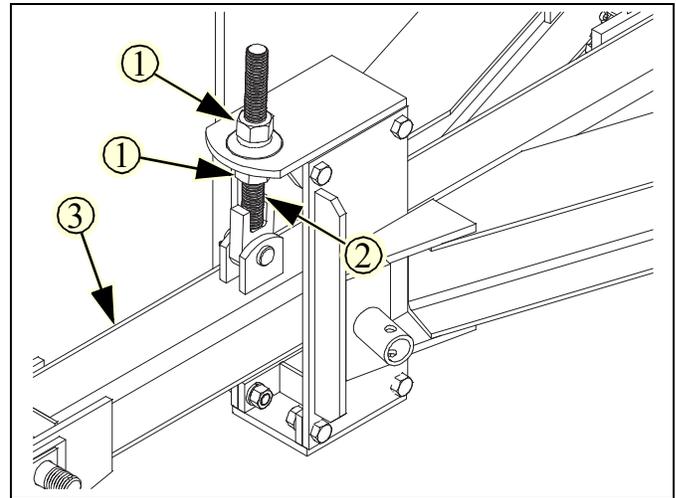


Figure 7
Hitch Adjustment

40992

Gauge Wheel Adjustment

Refer to Figure 8

29. Once the machine has been adjusted and set to the desired working depth, you may now adjust the gauge wheels.
30. To adjust the gauge wheel arm (4), loosen the two $\frac{3}{4}$ bolts (5). Remove pin (6) and slide gauge wheel arm (4) up or down until the gauge wheel is $\frac{1}{2}$ " to $1\frac{1}{2}$ " above ground.
31. Re-install the pin (6) and tighten the two $\frac{3}{4}$ bolts (5).
32. The ideal working speed for the Plains Plow is $5\frac{1}{2}$ to $6\frac{1}{2}$ mph. Working too slow may cause plugging, poor incorporation or mixing crop residue and reduced weed kill. Running too fast may cause streaks in chemical incorporation and ridging.

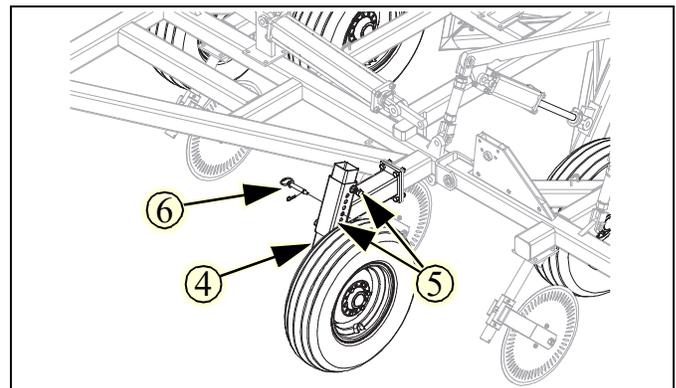


Figure 8
Gauge Wheel Adjustment

43012

Depth Stop

Refer to Figure 9.

33. Once the machine is level and set to the desired depth, set the depth stop (10) at the front of the machine to ensure that the unit will operate at a consistent depth every pass. After setting the stop, if a change of depth is desired, 1 full turn of the handle (11) either in or out will change the depth approximately $\frac{1}{4}$ " up or down respectively.

 If after setting the depth stop, the detent on the tractor kicks out before the stop contacts the button (12) on the depth stop, slow the hydraulic flow speed down. If this problem persists, contact the factory service representative for other possible adjustments. On tractors with a timed detent setting, set the detent so when you raise the machine, the pump will run for $\frac{1}{2}$ to 1 full second after full raise. If it runs longer than this, damage to the seals of the lift cylinders may result. If the problem still persists, contact the factory service representative for the possible adjustments.

 Do not try to adjust the rebound valve without contacting the factory service rep.

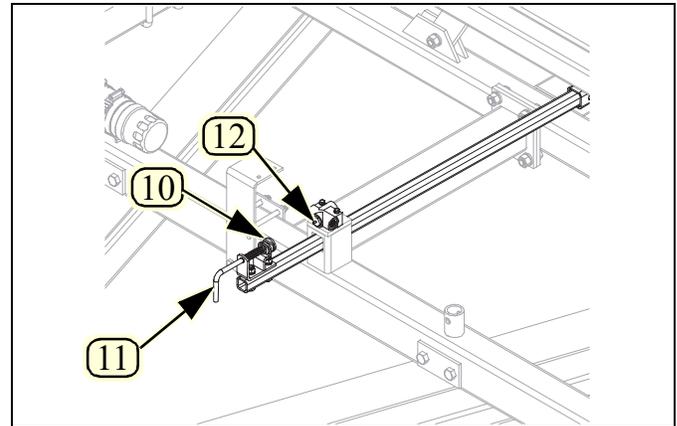


Figure 9
Depth Stop Adjustment

42250

Wheel Arm

Refer to Figure 10

34. If the tire (13) on the outside wings (14), on models 9533, 9744 and 9748, are riding in loose or already worked ground and running too deep, you can correct the problem by moving the wheel arms (15) to the optional position as shown. Start by lowering machine to ground until wheel arm pins (16) are loose. Remove both wheel arm pins (16), rear cylinder arm bolt (17), and rod end cylinder pin (18). Switch the RH and LH wheel arms (15) side to side and move wheel arm linkage over to inside lug (19) on front of frame. Re-install all pins and bolts to secure. This will move the tires (13) inward 5" to let wings run level.

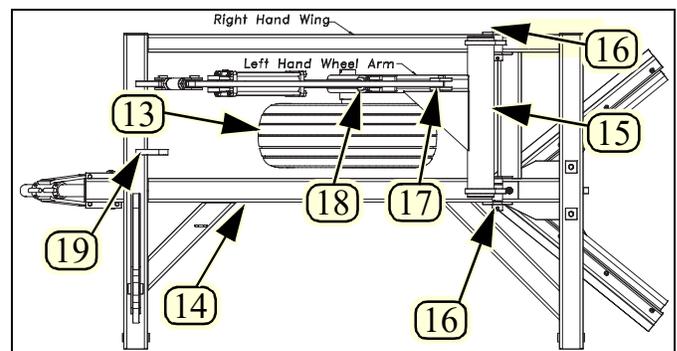


Figure 10
Wheel Arm

41347

Treader Adjustment

Refer to Figure 11

35. Adjust the treaders (1) to leave the desired result. In most cases the treader should be allowed to float and will not require additional down pressure. The spring bolt (2) should be pre-set in the 3rd hole (normal position) of treader mount bracket (3).
36. To increase down pressure and make the treaders more aggressive, the spring bolt (2) may be moved forward to the 2nd hole of treader mount bracket (3), from front. This will also reduce transport height so you may need to tighten the nut (4) at the top of the spring bolt to raise the treaders up slightly for transport.

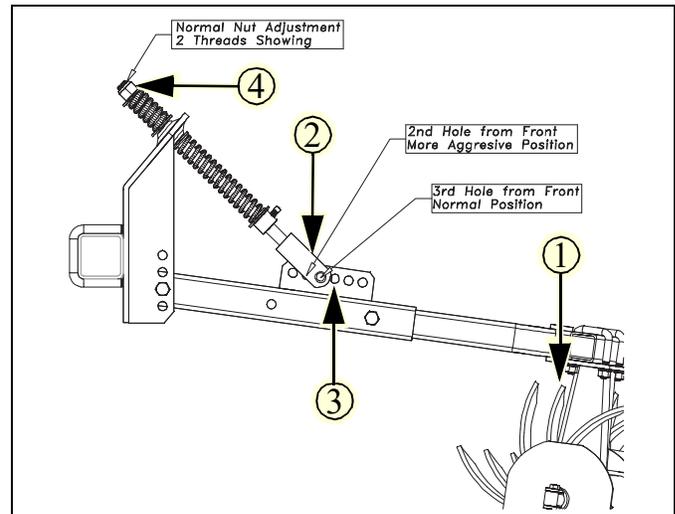


Figure 11
Treader Adjustment

43013

Treader Angle Adjustment

Refer to Figure 12

37. The treaders are designed to be run at angles of either 15° or 20°. 15° is the preferred setting in most instances. To set the treader gangs (5) to 15°, install the $\frac{3}{4}$ x 4 bolt (6) in the inside hole of treader gang tube (5). For 20°, install in outside hole of treader gang tube (5).
 38. If plugging of the treaders occurs, they may need to be moved back one hole in the wishbone arm assemblies. The further back you move these the more tail heavy the unit is. Do not move them unless absolutely necessary.
-  Most of the extra mounting holes in the brackets are needed to allow our treaders to be mounted on competitors machines. Under most circumstances, it is not necessary to vary the settings from the factory recommended settings for our machines.

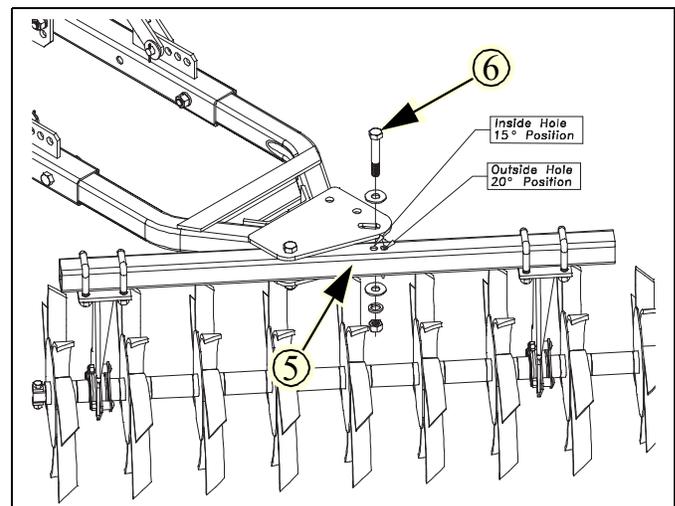


Figure 12
Treader Angle Adjustment

43041

Rear Stand

Refer to Figure 13

NOTICE

If machine is equipped with a rear attachment, be sure you install the rear jack stand so machine doesn't tip backwards when unhooking machine from tractor.

39. Attach the rear stand bracket (1) to the center of, the rear tube of the drag frame with $\frac{5}{8}$ x $4\frac{1}{32}$ x $5\frac{1}{2}$ u-bolts (2), $\frac{5}{8}$ lock washers and $\frac{5}{8}$ nuts.
 40. Tighten u-bolts specs, See “**Torque Values Chart**” on page 26.
 41. Slide the rear stand (3) through the rear stand bracket (1), secure with the $\frac{3}{4}$ x $4\frac{3}{8}$ pin (4) and retainer.
 42. Once the options are installed, fold the plains plow to check for clearance and interferences, also watch that hoses do not get pinched.
-  Double check that all bolts are tightened to specs, See “**Torque Values Chart**” on page 26. Consult the “Operator’s Manual”, for the first time field adjustments before going to the field.

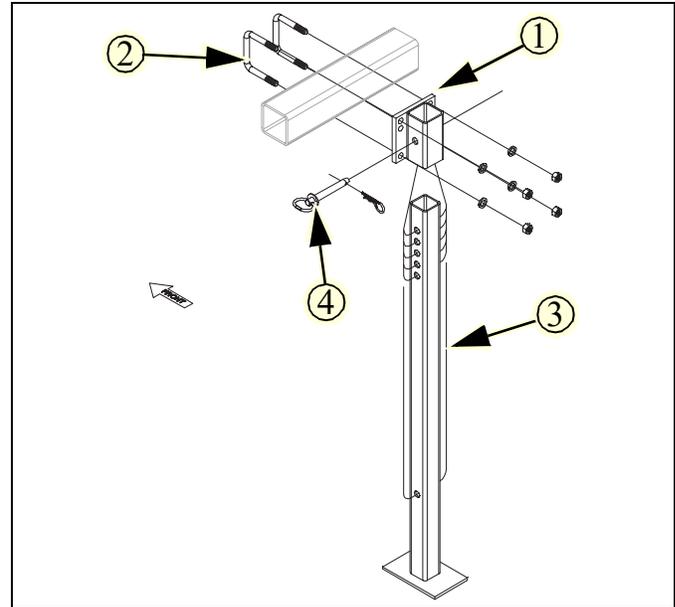


Figure 13
Rear Stand

43039



Maintenance and Lubrication

Maintenance

1. Always use the transport lock when working on or doing maintenance to the Plains Plow. 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 coulter mounting and frog bolts for tightness.
3. Replace or rotate worn parts as needed -- hinge bolts, clevis pins, bearings, sweeps, shanks, etc.
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.
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 Plains Plow, assistance is available. Please contact:

**Great Plains Service Department
1325 E. North St.
PO 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.

Lubrication

 Multipurpose spray lube	 Multipurpose grease lube	 Multipurpose oil lube	 50	Intervals (service hours) at which lubrication is required
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Walking Beam Pivot Bearings

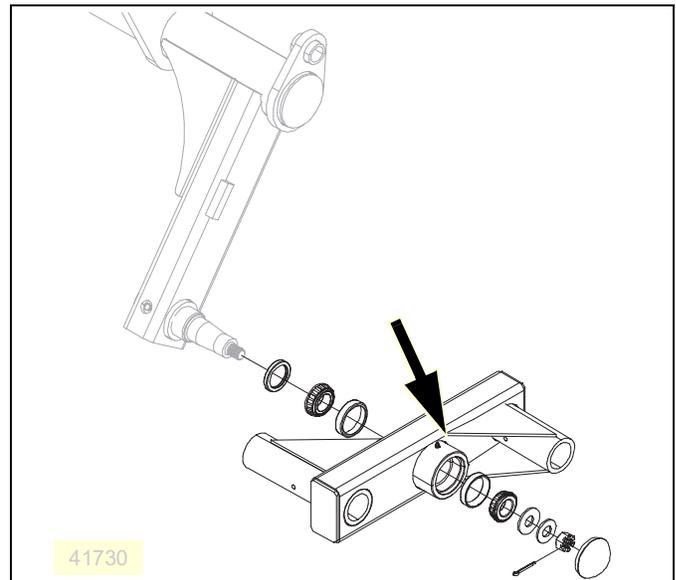
	 100
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One on each walking beam

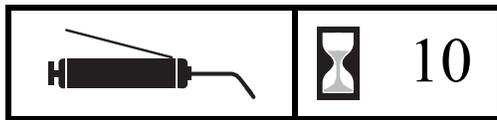
Type of Lubrication: Grease

Quantity: Sparingly and check for endplay

If there is a lot of end play take apart, check bearings and re-pack



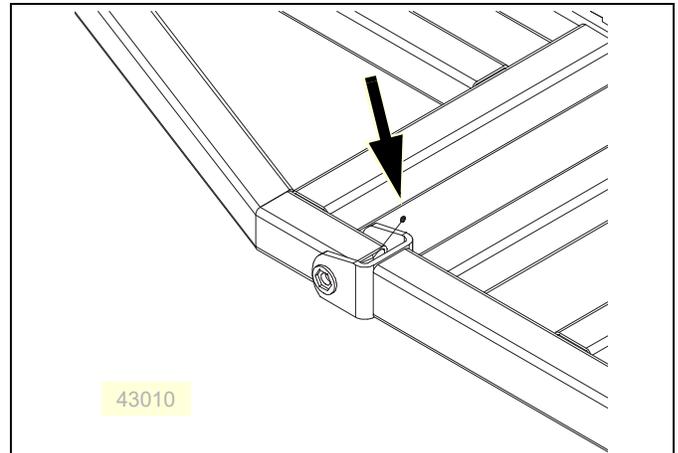
All Hinge Points



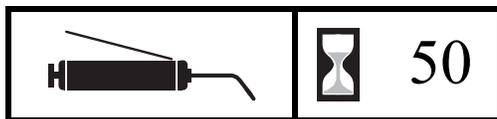
One on each bearing

Type of Lubrication: Grease

Quantity: Grease every 10 hours, until grease emerges.



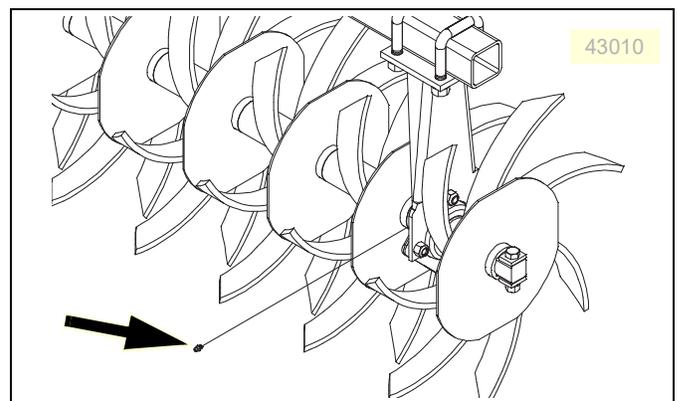
Treader Gang Bearings



One on each bearing

Type of Lubrication: Grease

Quantity: Grease every 50 hours, 2 to 3 pumps. In heavy conditions grease every 20 hours, 2 to 3 pumps.

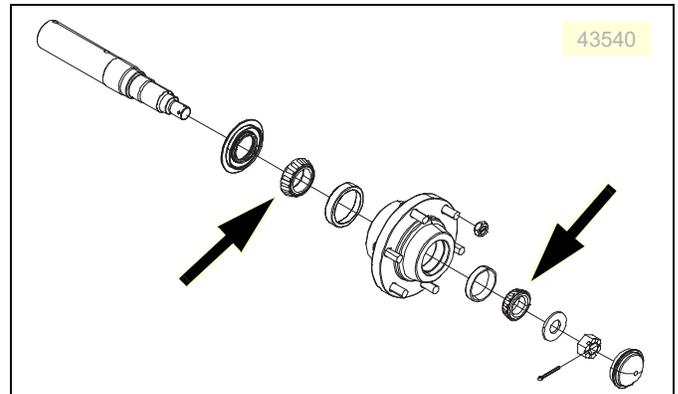


Wheel Bearing Hubs



Inspect bearings for end play Annually. If excessive endplay exists it is recommended to disassemble, clean and repack the wheel bearings.

For machines stored outdoors or operating in extreme conditions bearings should be checked more often.



All Turnbuckles and Threaded Adjustments



Overall Machine Maintenance;

Type of Lubrication: Multipurpose Lubricant

Quantity: Coat thoroughly.



PP Specifications and Capacities

Model No.	9322PP	9326PP	9533PP	9540PP
Tillage Width	22' 4" (681cm)	26' 0" (792cm)	33' 4" (1016cm)	40' 8" (1243cm)
Center Section	7' 6" (229cm)	10' 0" (305cm)	10' 0" (305cm)	10' 0" (305cm)
Wing (1st)	8' 0" (244cm)	8' 0" (244cm)	7' 0" (213cm)	8' 0" (244cm)
Wing (2nd)	N/A	N/A	4' 0" (122cm)	7' 0" (213cm)
Wing (3rd)	N/A	N/A	N/A	N/A
Number of Sweeps	6	7	9	11
Weight (Approximate)	8160 lbs. (3701 kg)	9220 lbs. (4182 kg)	11500 lbs. (5216 kg)	13480 lbs. (6114 kg)
Transport Width	13' 0" (396cm)	16' 8" (509cm)	18' 0" (549cm)	18' 0" (549cm)
Transport Height	12' 6" (381cm)	12' 6" (381cm)	14' 6" (442cm)	13' 6" (441cm)
Tire Size (Center)	11L-15SL 12 ply	11L-15 8 ply	11L-15SL 12 ply	11L-15SL 12 ply
Tire Size (Wing)	11L-15 8 ply	11L-15 8 ply	11L-15 8 ply	11L-15 8 ply
Tire Size (Gauge Wheel)	9.5L-15 8 ply	9.5L-15 8 ply	9.5L-15 8 ply	9.5L-15 8 ply
Horsepower (PTO)	150-205	180-240	230-305	285-370
Kilowatt	112-153	135-179	172-227	213-276

Model No.	9744PP	9748PP	9752PP	9756PP
Tillage Width	44' 4" (1351cm)	48' 0" (1463cm)	51' 8" (1578cm)	55' 4" (1687cm)
Center Section	7' 6" (229cm)	10' 0" (305cm)	7' 6" (229cm)	10' 0" (305cm)
Wing (1st)	7' 6" (229cm)	7' 0" (213cm)	7' 6" (229cm)	7' 6" (229cm)
Wing (2nd)	7' 0" (213cm)	7' 0" (213cm)	8' 0" (244cm)	8' 0" (244cm)
Wing (3rd)	4' 0" (122cm)	4' 0" (122cm)	7' 0" (213cm)	7' 0" (213cm)
Number of Sweeps	12	13	14	15
Weight (Approximate)	17300 lbs. (7847 kg)	18620 lbs. (8446 kg)	19220 lbs. (8718 kg)	20540 lbs. (9317 kg)
Transport Width	21' 10" (666cm)	25' 6" (777cm)	21' 10" (666cm)	25' 6" (777cm)
Transport Height	14' 6" (442cm)	14' 6" (442cm)	14' 6" (442cm)	14' 6" (442cm)
Tire Size (Center & Inner Wing)	11L-15 Load F	11L-15 Load F	11L-15 Load F	11L-15 Load F
Tire Size (Outer Wings)	11L-15 8 ply	11L-15 8 ply	11L-15 8 ply	11L-15 8 ply
Tire Size (Gauge Wheel)	9.5L-15 8 ply	9.5L-15 8 ply	9.5L-15 8 ply	9.5L-15 8 ply

Tire Inflation Chart

Tire Inflation Chart		
Wheel	Tire Size	Inflation
Gauge Wheel	9.5Lx15" 8-Ply	44 psi 303 kPa
Transport/ Wing	11L x 15" 8-Ply	36 psi 248 kPa
Transport/	11Lx15SL 12-Ply	52 psi 359 kPa
Transport/	11Lx15" Load F	90 psi 621 kPa

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.

Manufacturer Web site

Firestone	www.firestoneag.com
Gleason	www.gleasonwheel.com
Titan	www.titan-intl.com
Galaxy	www.atgtire.com
BKT	www.bkt-tire.com

Hydraulic Connectors and Torque

Refer to Figure 14 (a hypothetical fitting)

Leave any protective caps in place until immediately prior to making a connection.

- NPT** - National Pipe Thread
Note tapered threads, no cone/flare, and no O-ring.
- 1 Apply liquid pipe sealant for hydraulic applications.
Do not use tape sealant, which can clog a filter and/or plug an orifice.
- JIC** - Joint Industry Conference (SAE J514)
Note straight threads (4) and the 37° cone (5) on "M" fittings (or 37° flare on "F" fittings).
Use no sealants (tape or liquid) on JIC fittings.
- ORB** - O-Ring Boss (SAE J514)
Note straight threads (5) and elastomer O-Ring (7).
Prior to installation, to prevent abrasion during tightening, lubricate O-Ring with clean hydraulic fluid.
- 3 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.

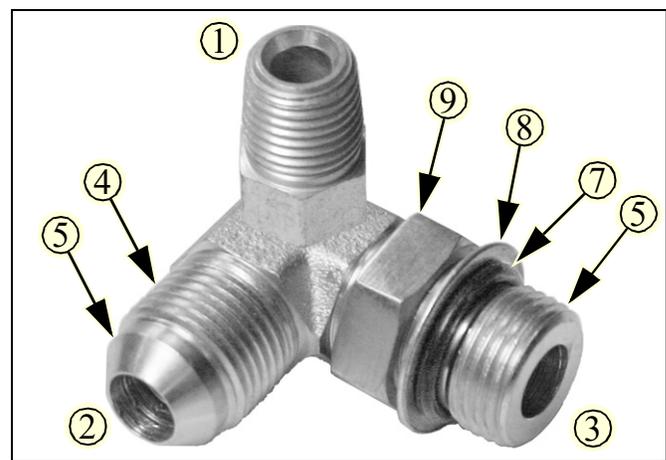
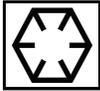


Figure 14
Hydraulic Connector ID 31282

Fittings Torque Values			
Dash Size	Fitting	N-m	Ft-Lbs
-4	1/4-18 NPT	1.5-3.0 turns past finger tight	
-5	1/2-20 JIC	19-20	14-15
-5	1/2-20 ORB w/jam nut	12-16	9-12
-5	1/2-20 ORB straight	19-26	14-19
-6	5/16-18 JIC	24-27	18-20
-6	5/16-18 ORB w/jam nut	16-22	12-16
-6	5/16-18 ORB straight	24-33	18-24
-8	3/4-16 JIC	37-53	27-39
-8	3/4-16 ORB w/jam nut	27-41	20-30
-8	3/4-16 ORB straight	37-58	27-43

Torque Values Chart

Bolt Size in-tpi ^a	Bolt Head Identification					
						
	N-m ^b	ft-lb ^d	N-m	ft-lb	N-m	ft-lb
1/4-20	7.4	5.6	11	8	16	12
1/4-28	8.5	6	13	10	18	14
5/16-18	15	11	24	17	33	25
5/16-24	17	13	26	19	37	27
3/8-16	27	20	42	31	59	44
3/8-24	31	22	47	35	67	49
7/16-14	43	32	67	49	95	70
7/16-20	49	36	75	55	105	78
1/2-13	66	49	105	76	145	105
1/2-20	75	55	115	85	165	120
9/16-12	95	70	150	110	210	155
9/16-18	105	79	165	120	235	170
5/8-11	130	97	205	150	285	210
5/8-18	150	110	230	170	325	240
3/4-10	235	170	360	265	510	375
3/4-16	260	190	405	295	570	420
7/8-9	225	165	585	430	820	605
7/8-14	250	185	640	475	905	670
1-8	340	250	875	645	1230	910
1-12	370	275	955	705	1350	995
1 1/8-7	480	355	1080	795	1750	1290
1 1/8-12	540	395	1210	890	1960	1440
1 1/4-7	680	500	1520	1120	2460	1820
1 1/4-12	750	555	1680	1240	2730	2010
1 3/8-6	890	655	1990	1470	3230	2380
1 3/8-12	1010	745	2270	1670	3680	2710
1 1/2-6	1180	870	2640	1950	4290	3160
1 1/2-12	1330	980	2970	2190	4820	3560

Bolt Size mm x pitch ^c	Bolt Head Identification					
						
	N-m	ft-lb	N-m	ft-lb	N-m	ft-lb
M 5 X 0.8	4	3	6	5	9	7
M 6 X 1	7	5	11	8	15	11
M 8 X 1.25	17	12	26	19	36	27
M 8 X 1	18	13	28	21	39	29
M10 X 1.5	33	24	52	39	72	53
M10 X 0.75	39	29	61	45	85	62
M12 X 1.75	58	42	91	67	125	93
M12 X 1.5	60	44	95	70	130	97
M12 X 1	90	66	105	77	145	105
M14 X 2	92	68	145	105	200	150
M14 X 1.5	99	73	155	115	215	160
M16 X 2	145	105	225	165	315	230
M16 X 1.5	155	115	240	180	335	245
M18 X 2.5	195	145	310	230	405	300
M18 X 1.5	220	165	350	260	485	355
M20 X 2.5	280	205	440	325	610	450
M20 X 1.5	310	230	650	480	900	665
M24 X 3	480	355	760	560	1050	780
M24 X 2	525	390	830	610	1150	845
M30 X 3.5	960	705	1510	1120	2100	1550
M30 X 2	1060	785	1680	1240	2320	1710
M36 X 3.5	1730	1270	2650	1950	3660	2700
M36 X 2	1880	1380	2960	2190	4100	3220

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

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

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Torque Values Chart	
Wheel Bolt Torque Values	1/2"-20 (75-85ft-lbs)
Wheel Bolt Torque Values	5/16"-18 (80-90ft-lbs)
Wheel Bolt Torque Values	5/8"-18 (85-100ft-lbs)



WARRANTY

Great Plains (a division of Great Plains Manufacturing, Inc.) warrants to the original purchaser that this Great Plains machine will be free from defects in material and workmanship for a period of one year (Parts & Labor) from the first use date when used as intended for personal use; ninety days for custom/commercial or rental use.

Second year limited warranty covers Parts ONLY (personal usage only, excluding labor and wear items). This warranty is limited to the replacement of any defective part by Great Plains. Great Plains reserves the right to inspect any equipment or part which are claimed to have been defective in material or workmanship.

The following items and/or conditions are **NOT COVERED UNDER WARRANTY**: Failures resulting from the abuse or misuse of the equipment, failures occurring as a result of accidental damage or Force Majeure, failures resulting from alterations or modifications, failures caused by lack of normal maintenance as outlined in the operator's manual, repairs made by non-authorized personnel, items replaced or repaired due to normal wear (such as wear items and ground-engaging components including, but not limited to, disc blades, chisel points, tires, bushings, and scrapers), repeat repair due to improper diagnosis or improper repair by the dealer, temporary repairs, service calls and/or mileage to and from customer location, overtime premium, or unit hauling expenses. The warranty may be voided if the unit is towed at speeds in excess of 20 miles per hour (32 kilometers per hour), or failures occurring from soils with rocks, stumps, or other obstructions.

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

No other warranty of any kind whatsoever expressed 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 by a certified Great Plains dealer.

Effective July 15, 2020

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A		G		R
address, Great Plains	11 . 22	gauge wheel adjustment	18	rear jack stand
amber reflectors	5	H		red reflectors
B		headphones	1	reflectors
bearings	22	hearing	1	amber
bolts	22	high pressure fluids	2	orange
C		hills	13	red
Caution		hitch adjustment	18	SMV
Read Operator's Manual	6	hitching	13	reflectors, safety
CAUTION, defined	1	hose handles	14	repair parts
chain	13	hoses, hydraulic	14	riders
checklists		hydraulic connectors	25	right-hand, defined
pre-setup	12	hydraulic hoses	14	rose, orientation
pre-start	16	hydraulic safety	2	S
transport	16	I		SAE J514
chemicals	2	inflation	25	safety chain
children	2	J		safety decal
clothing	1	JIC	25	safety information
color code, hose	14	Joint Industry Conference	25	safety symbol
contact Great Plains	22	J514	25	serial number
covered models	10	K		setup
customer service	11	kPa	25	shutdown
cylinder symbols	14	L		slopes
D		leaks	2 . 22	SMV (Slow Moving Vehicle)
Danger		left-hand, defined	10	Spanish
Crushing Hazard	7	lights	2	Specifications and Capacities
DANGER, defined	1	lubrication	22	speed
decals		all hinge points	23	storage
caution		treader gang bearings	23	storing machine
read manual	6	M		support
Danger		Maintenance	22	symbol, safety
Cutting of Foot	9	maintenance safety	4	T
danger		medical assistance	2 . 14 . 16	tables
crushing	7	model number	11	document family
electrocution	7	N		fittings torque
notice		National Pipe Thread	25	hose color code
transport lock	8	Note, defined	10	models covered
speed		Notice, defined	10	torque values
30km per hr	9	NPT	25	tire inflation
warning		O		tires
hand crushing	8	orange reflector	6	transport
high pressure fluid	8	ORB	25	transport lock
overhead wing	7	orientation rose	10	transport speed
tongue rising	9	O-Ring Boss	25	transporting
wings could fall	9	owner assistance	11	treader adjustment
decal, safety	5	P		U
definitions	10	parts	22	URLs, tires
depth stop	19	phone number, GP	12	W
directions	10	Pre-leveling of machine	15	walking beam pivot
drag bolts	22	protective equipment	1	WARNING, defined
F		psi	25	warranty
fire	1			welding
				wheel arm adjustment
				Wheel Bearing Hub

Wing Depth Adjustment.....	15.	18
www		25
Numerics		
13 mph		3
20 mph	3.	16
22 kph		3
32 kph		3
580-043M, manual		10
580-043P, manual		10
580-043Q, manual		10
818-055C, reflector		5
838-094C, decal		8
838-598C, decal		6
838-599C, decal		7
838-600C, decal		7
838-602C, decal		7
838-603C, reflector		6
838-606C, decal		9
838-611C, decal		8
838-612C, decal		9
838-613C, decal		8
838-614C, reflector		6
838-615C, reflector		5
848-271C, decal		9



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