Predelivery Instructions

TSF1080, TSF1090, TSF1280 and TSF1290
Front Fold Boom Sprayer

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!

Cover illustration may show optional equipment not supplied with standard unit.
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Important Safety Information

Look for Safety Symbol

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

Be Aware of Signal Words

Signal words designate a degree or level of hazard seriousness.

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

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

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
Be Familiar with Safety Decals
▲ Read and understand “Safety Decals,” thoroughly.
▲ Read all instructions noted on the decals.

Keep Riders Off Machinery
Riders obstruct the operator's view. Riders could be struck by foreign objects or thrown from the machine.
▲ Never allow children to operate equipment.
▲ Keep all bystanders away from machine during operation.

Shutdown and Storage
▲ Fold Front Fold Boom Sprayer, put tractor in park, turn off engine, and remove the key.
▲ Secure Front Fold Boom Sprayer using blocks and supports provided.
▲ Detach and store Front Fold Boom Sprayer in an area where children normally do not play.

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.

Use A Safety Chain
▲ Use a safety chain to help control drawn machinery should it separate from tractor drawbar.
▲ Use a chain with a strength rating equal to or greater than the gross weight of towed machinery.
▲ Attach chain to tractor drawbar support or other specified anchor location. Allow only enough slack in chain to permit turning.
▲ Replace chain if any links or end fittings are broken, stretched or damaged.
▲ Do not use safety chain for towing.
Transport Machinery Safely

Maximum transport speed for implement is 20 mph. 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 Front Fold Boom Sprayer in case of breakdown on the road.

▲ Keep clear of overhead power lines and other obstructions when transporting. Refer to transport dimensions under “Specifications and Capacities” on page 16.

▲ Do not fold or unfold the Front Fold Boom Sprayer while the tractor is moving.

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, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.
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.
▲ Fold the Front Fold Boom Sprayer, put tractor in park, turn off engine, and remove key before performing maintenance.
▲ Make sure all moving parts have stopped and all system pressure is relieved.
▲ Allow Front Fold Boom Sprayer to cool completely.
▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on Front Fold Boom Sprayer.
▲ 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 Front Fold Boom Sprayer before operation.

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.

Tire Safety

Tire changing can be dangerous and should be performed by trained personnel using correct tools and equipment.
▲ When inflating tires, use a clip-on chuck and extension hose long enough for you to stand to one side—not in front of or over tire assembly. Use a safety cage if available.
▲ When removing and installing wheels, use wheel-handling equipment adequate for weight involved.
Safety At All Times
Thoroughly read and understand the instructions in this manual before operation. Read all instructions noted on the safety decals.

▲ Be familiar with all Front Fold Boom Sprayer functions.
▲ Operate machinery from the driver's seat only.
▲ Do not leave Front Fold Boom Sprayer 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 Front Fold Boom Sprayer 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 Front Fold Boom Sprayer. Make sure all persons are clear of working area.
▲ Do not turn tractor too tightly, causing Front FoldBoom Sprayer to ride up on wheels. This could cause personal injury or equipment damage.
▲ When using a PTO pump, be sure that PTO shield is in place on the tractor, PTO coupler bolts are torqued to the correct specification, and torque bar is properly chained to tractor drawbar.
▲ The boom has many pinch points during field operation and folding. Keep all bystanders away.
Introduction

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

Description of Unit

The TSF1080, TSF1090, TSF1280 and TSF1290 sprayers are capable of spraying at either 60ft or the full 80-90ft depending on your application needs. The level float boom is fully suspended starting with vertical spring suspension in a 42in hydraulic elevator which provides a wide range of boom height adjustment along with gas shocks that provide side-to-side stability.

Intended Usage

Use these booms as part of a pressurized sprayer system to apply liquid pesticides, herbicides or fertilizers to production-agriculture crops only. Do not modify sprayer for use with attachments other than those approved by Great Plains.

Models Covered

TSF1080, TSF1090, TSF1280 and TSF1290

Using This Manual

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

An operator’s manual is also provided with the new machine. Read and understand “Important Safety Information” and “Operating Instructions” in the operator’s manual before assembling the machine. As a reference, keep the operator’s manual on hand while assembling.

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

Definitions

The following terms are used throughout this manual.

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.

IMPORTANT !

A crucial point of information related to the preceding topic. For safe and correct operation, read and follow the directions provided before continuing.

Note: Useful information related to the preceding topic.

Assembly and Setup Assistance

To order additional copies of predelivery instructions or operator’s and parts manuals, write to the following address. Include model and serial numbers in all correspondence.

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

Product Support

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

The following headings are step-by-step instructions for assembling the Trailer Sprayer. Begin with Tools Required and Pre-Assembly Checklist to make sure you have all necessary parts and equipment. Then proceed with Unload Boom from Truck. Follow each step in order to make the job as quick and safe as possible and produce a properly working machine.

The Trailer Sprayer is shipped via flat bed truck. It is the dealer's responsibility to unload the boom. Unload all equipment before beginning assembly. Do not attempt any assembly work with the Trailer Sprayer on the truck.

Tools Required
- General hand tools

Pre-Assembly Checklist
1. Read and understand “Important Safety Information” on page 1 before assembling.
2. Have at least two people on hand while assembling.
3. Make sure the assembly area is level and free of obstructions (preferably an open concrete area).
4. Have all major components.
5. Have all fasteners and pins shipped with boom.
6. Have a copy of the parts manual on hand. If unsure of proper placement or use of any part or fastener, refer to the parts manual.
7. Check that all working parts are moving freely, bolts are tight, and cotter pins are spread.
8. Check that all safety labels and reflectors are correctly located and legible. Replace if improperly located or damaged. Refer to Safety Decals in the section “Important Safety Information” in the operator's manual.

Unload Boom from Truck
9. Using a forklift or tractor, remove boom from truck. Do not remove shipping stands until you are ready to assemble boom.
10. When ready to assemble boom, place sprayer in an open, level area. Make sure there is enough overhead and side clearance to fold and unfold assembled boom.

After Unloading
11. Remove shipping straps.
12. Remove yoke from hitch.

Remove Shipping Straps
Refer to Figure 1
13. On the 1250 gallon sprayer use strap cutters to cut the metal straps and remove the wooden blocks used to support the booms during shipping.
Swivel Bolt Snap

Refer to Figure 2 and Figure 3

14. Unhook swivel bolt snap from stationary ring. Re-hook swivel bolt snap to ring located in outer boom lock plunger rod.

Figure 2
Swivel Bolt Snap (transport)

Figure 3
Swivel Bolt Snap (operation)
**Marker Tank**  
*Refer to Figure 4*

15. Mount the marker tank on the right side of the sprayer.

---

**Outer Jump Nozzle**  
*Refer to Figure 5*

16. Locate the outer jump nozzle mounting bracket(s) ① which is/are wire tied to the support frame(s). On sprayers with a 1250 gallon tank this will be on the side with the foam marker tank.

17. Undo the wire tie and mount the bracket ① to the frame gusset using the preexisting holes. Make sure the nozzle ② is positioned as shown.
Preparation and Setup

Before You Start

Read and understand the owners manual for your sprayer. A basic understanding of how the sprayer works will aid in the assembly, setup and operation of your sprayer.

Perform these checks before setting up your front fold boom.

1. Read and understand “Important Safety Information” on page 1.
2. Check that all working parts are moving freely, bolts are tight, and cotter pins are spread.
3. Check that all grease fittings are in place and lubricated.
4. Check that all safety decals and reflectors are correctly located and legible. Replace if damaged.

Hitching Tractor to Sprayer

⚠️ DANGER

You may be severely injured or killed by being crushed between the tractor and Front Fold Boom Sprayer. Do not stand or place any part of your body between Front Fold Boom Sprayer and moving tractor. Stop tractor engine and set park brake before installing the hitch pin.

⚠️ DANGER

Electrocution hazard. To prevent serious injury or death from electric shock, keep clear of overhead power lines when transporting, folding or unfolding boom. Boom is not grounded. Electrocution can occur without direct contact. Refer to transport dimensions under “Specifications and Capacities” on page 16. Do not fold or unfold boom while tractor is moving.

The Great Plains Trailer Sprayer is equipped with a ball hitch on sprayers equipped with a PTO drive-line pump.

A single tang hitch is used in place of the ball hitch on other pump options. If the sprayer has a single tang hitch, attach it to the tractor using a hitch pin with a retaining hair pin. Park the sprayer in an open, flat area with the jack in the park position. Skip instructions 5-8 and proceed with 9.
If the sprayer is equipped with the ball hitch, use the instructions 5-8 to assemble the hitch plate.

Refer to Figure 6

5. Remove the hammer-strap on the tractor. Assemble the ball hitch plate to the drawbar by placing the 1in x 5in long bolt through the drawbar hole using flat washers on both ends.

6. Secure the 3/4in x 5in long bolts in the slots of the ball hitch plate and in the slots of the backup plate using the flange nuts provided. Orient the backup plate with the slots in the opposite direction of the ball hitch plate.

Refer to Figure 7

7. Park the sprayer in an open, flat area with the jack in the park position.

Refer to Figure 6

8. Back the tractor up to the sprayer and hook up the sprayer ball hitch onto the stud mounted on the ball hitch plate. Secure the ball hitch with the flat washer and the lynch pin.

Refer to Figure 8

9. With the sprayer is attached to the tractor, prepare to level the frame of the sprayer by securely supporting the front of the frame with a hoist.

10. Adjust the frame by moving the adjustment bolts to a position where the frame is sloping to the front about one degree. This allows the fluid in the tank to drain into the sump when the sprayer is in use. Securely fasten the adjustment bolts using the Torque Values Chart in the “Appendix” on page 17.
Predelivery

1. Have tractor delivered to dealership that will be operating sprayer.

2. Confirm row spacing, and set wheel spacing on sprayer. (Axles are adjustable.)

3. Set drawbar length to ASAE standards as shown on decal if equipped with a PTO pump. Mount ball hitch plate to tractor drawbar, and ball joint hitch to sprayer.

4. Hook sprayer to tractor, and adjust hitch height so that front of sprayer is $1\frac{1}{2}$ in lower than the rear.

5. Install control switch boxes inside of tractor cab, and route power supplies to the tractor battery.

6. The following equipment must be connected to the tractor’s battery: Raven 450 Controller, Fasse Valve Hydraulic Control Box, and Optional Foam Marker Control.
   a. To connect the Raven 450 Controller to the tractor battery, see pages 7 and 8 in the Raven Installation and Service manual.
   b. To connect the Fasse Valve Hydraulic Control Box to the tractor battery, follow the steps below.
      i. Use the 6 ft, two-wire red and black cable to connect the hydraulic controls to the tractor battery.
      ii. Connect the red wire from each cable to the positive terminal and the black wire from each cable to the negative terminal.
   c. Use the 6 ft gray cable to connect the Optional Foam Marker Control to the tractor battery.

7. Mount radar gun to tractor frame if applicable and route cable up through cab. If using existing radar on tractor, install “Y” cable according to tractor manufacturer’s recommendations.

8. Connect all hydraulic hoses to outlets (refer to tractor operator’s manual for designated outlet if equipped with a hydraulic pump). The hydraulic motor used on all liquid pumps is a 6 GPM motor. If the tractor used on this sprayer does not have the capabilities to adjust the remotes to this flow, then a hydraulic flow divider kit must be installed so that flow can be controlled and to prevent operating the pump at excessive speeds. Place a stop in the neutral position for the tractor hydraulics so that the hydraulic lever can only be moved to the float and down positions. Refer to the tractor’s operator manual on information for the neutral stop.

   IMPORTANT !
   Damage to the pump will occur if the hydraulic lever is returned to the neutral position while the pump is running.

9. Check all hydraulic functions of the boom/elevator.

10. With boom still unfolded, make sure boom locks are adjusted correctly to just clear the stops.

11. Fill sprayer approximately 1/2 full of water. Open tank sump valve and let water circulate throughout the system and check for any leaks.

12. Before installing nozzles, engage pump slowly and circulate water through the system, then turn on boom valves individually to flush out the system. (On sprayers equipped with a hydraulic pump, start out with the hydraulic lever in the float position, and engage the pump by placing the lever in the down position. Make sure the hydraulic flow control valve is set at a minimum flow.)

13. After system has been thoroughly flushed, install nozzles and open boom valves again to check nozzle pattern across the boom.

14. Set the dead head pressure of the pump in the following ways depending on how pump is driven.

Hydraulic Drive Pumps

   a. To determine the correct flow rate to the hydraulic motor, start out with the hydraulic control valve set at a minimum flow, and the hydraulic lever in the float position.

   b. Open up the sprayer control valve to its maximum setting. (On the Raven 450 monitor, with the power switch on, the rate switch must be placed in the manual position, and the increase/decrease switch must be pushed to increase for 10-12 seconds.)

   c. Start the tractor and engage the pump by placing the hydraulic lever in the down position. Once the system builds pressure, speed up the tractor to normal operating speed. Shut off the boom section switches, and close the agitation valve.

   d. The pump is now at deadhead pressure and the hydraulic control valve must be adjusted up until the spray pressure reaches 80 P.S.I. maximum. Mark this setting on the hydraulic control valve for future reference.

   e. Open up the agitation valve.
Ace Pump Flow Limiter

Refer to Figure 9

The flow limiter is a hydraulic device designed to shut off the flow of hydraulic oil when a specified flow rate is exceeded. On tractors with LOAD SENSING (LS) Closed Center hydraulic systems, this device limits the flow of oil to the Ace motor and prevents failures.

Newer Case-IH, John Deere, New Holland, and CAT tractors have a great potential to run motors beyond their rated speeds. Flows out of the hydraulic valves can exceed 20 GPM while the motors are rated at 4-11 GPM. The flow limiter protects the Ace motor by shutting off on excess hydraulic flow.

The flow limiter should not be used on OPEN center or PRESSURE COMPENSATING Closed Center hydraulic systems. The flow limiter should not be used with a restrictor orifice.

To Install:

1. Install the flow limiter in the inlet port of the Ace motor.
2. Connect the hydraulic hoses so that the pump runs with the hydraulic lever in the “Lower/Retract” position. Connect return hose to Low Pressure Return Port, when available.
3. Shut off boom and agitation valves on the sprayer to deadhead the sprayer pump flow.
4. Adjust the flow control on the tractor to minimum flow setting (turtle).
5. Move the hydraulic lever to the “Lower/Retract” position.

Note: Always shut the pump off in the “Float” position. This eliminates high pressure being trapped in the return line and protects hydraulic seals. Avoid returning the oil to the remote valve; use the Low Pressure Return Port, when available.

6. Adjust the flow control on the tractor until the sprayer system deadhead pressure is within the pump’s operating parameters:

Note: If the flow limiter stops the flow of oil to the motor
a. Move the hydraulic lever to the “Neutral” position. This removes the oil pressure from the flow limiter and allows it to reset.

7. Set sprayer pressure by opening the agitation valve.

PTO Driven Pumps

a. Open up the sprayer control valve to its maximum setting. (On the Raven 450 monitor, with the power switch on, the rate switch must be placed in the manual position, and the increase/decrease switch must be pushed to increase for 10-12 seconds.)

b. Start the tractor and engage the PTO pump slowly with the tractor engine idling. Once the system builds pressure on the pressure gauge, shut off the boom section switched and close the agitation valve.

c. The pump is now at deadhead pressure. Increase the engine RPM’s until the spray pressure reaches 80 P.S.I. maximum on the pressure gauge or the PTO speed reaches the rated RPM (540/1000). Never exceed the rated tractor PTO RPM. This is the RPM needed to spray at to prevent excess pressure on the sprayer’s plumbing.

8. The sprayer is now ready to be calibrated. Refer to the Operator’s Manual or Raven 450 Manual for checking calibration depending on the control system.
**Tractor / PTO Shaft Hook-Up**

**DANGER**

Rotating drive-line contact can cause death. *KEEP AWAY!*

Do not operate without guards attached and drive-line securely attached at both ends.

Refer to Figure 10 and Figure 11

1. The tractor drawbar should be adjusted to ASAE standard or as shown. Adjust implement drive-line to a position which is level with the tractor PTO.

2. Position PTO shaft on tractor. Be sure shaft is coupled on tractor.

Refer to Figure 12

3. Adjust the vertical position of the pump drive shaft on the sprayer so that it is level, to slightly higher than level with the PTO shaft on the tractor as shown. This reduces drive-line vibration when turning a corner. Adjust the vertical position by moving the four bolts supporting the drive shaft bracket.

**IMPORTANT!**

If, after adjusting the vertical position of the pump drive shaft, the drive shaft is still a lot higher than the PTO drive shaft on the tractor; adjust the hitch up one position and readjust the pump drive shaft. Refer to *Hitching Tractor to Sprayer* in this section starting on page 10 to adjust the hitch.
Axle Wheel Spacing Adjustment

⚠️ **CAUTION**
Axle position must be located correctly to avoid excessive tongue weight or negative tongue weight which could cause mechanical failure resulting in personal injury.

Refer to Figure 13

The wheel spacing of the axle can also be adjusted for differing row spacings.

⚠️ **CAUTION**
Do not adjust the wheel spacing wider than 120in. To do so may cause a falling axle hazard while the sprayer is in service.

Figure 13
Sprayer Axle Assembly
## Specifications and Capacities

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<thead>
<tr>
<th>Model</th>
<th>TSF1080</th>
<th>TSF1090</th>
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<tr>
<td>Boom Width</td>
<td>60' - 80'</td>
<td>60' - 90'</td>
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<tr>
<td>Tank Capacity</td>
<td>1000 gal.</td>
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</tr>
<tr>
<td>Nozzle Spacing</td>
<td>20' or 30'</td>
<td></td>
</tr>
<tr>
<td>Number Of Nozzles</td>
<td>48 (20&quot; spacing) 33 (30&quot; spacing)</td>
<td>54 (20&quot; spacing) 37 (30&quot; spacing)</td>
</tr>
<tr>
<td>Approx. Empty Weight</td>
<td>9290 lbs.</td>
<td>9340 lbs.</td>
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<tr>
<td>Approx. Full Weight (Max)</td>
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<td>Working Width</td>
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<td>93'</td>
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<tr>
<td>Transport Width</td>
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<td>93'</td>
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<tr>
<td>Transport Height</td>
<td>13'</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>22' 5&quot;</td>
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<tr>
<td>Wheel/Tire Size</td>
<td>13.6 x 38 6 ply</td>
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<tr>
<td>Wheel Spacing</td>
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<table>
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<th>TSF1280</th>
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<tr>
<td>Boom Width</td>
<td>60' - 80'</td>
<td>60' - 90'</td>
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<tr>
<td>Tank Capacity</td>
<td>1200 gal.</td>
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<tr>
<td>Nozzle Spacing</td>
<td>20' or 30'</td>
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<td>Number Of Nozzles</td>
<td>48 (20&quot; spacing) 33 (30&quot; spacing)</td>
<td>54 (20&quot; spacing) 37 (30&quot; spacing)</td>
</tr>
<tr>
<td>Approx. Empty Weight</td>
<td>9760 lbs.</td>
<td>9890 lbs.</td>
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<tr>
<td>Approx. Full Weight (Max)</td>
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<td>Working Width</td>
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<td>Transport Width</td>
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<td>Transport Height</td>
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<tr>
<td>Length</td>
<td>22' 5&quot;</td>
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<tr>
<td>Wheel/Tire Size</td>
<td>14.9 x 46 10 ply</td>
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<tr>
<td>Wheel Spacing</td>
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</table>
### Torque Values Chart

| Bolt Size (Inches) | 1/4" - 20 | 1/4" - 28 | 5/16" - 18 | 5/16" - 24 | 3/8" - 16 | 3/8" - 24 | 7/16" - 14 | 7/16" - 20 | 1/2" - 13 | 1/2" - 20 | 9/16" - 12 | 9/16" - 18 | 5/8" - 11 | 5/8" - 18 | 3/4" - 10 | 3/4" - 16 | 7/8" - 9 | 7/8" - 14 | 1" - 8 | 1" - 12 | 1-1/8" - 7 | 1-1/8" - 12 | 1 1/4" - 7 | 1 1/4" - 12 | 1 3/8" - 6 | 1 3/8" - 12 | 1 1/2" - 6 | 1 1/2" - 12 |
|-------------------|----------|----------|------------|------------|-----------|-----------|------------|------------|----------|-----------|----------|------------|----------|-----------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| **N·m** | 7.4 | 8.5 | 15 | 17 | 27 | 31 | 43 | 49 | 66 | 75 | 95 | 105 | 130 | 150 | 235 | 260 | 225 | 250 | 340 | 370 | 480 | 540 | 680 | 750 | 890 | 1010 | 1180 | 1330 |
| **ft-lb** | 5.6 | 6.6 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 |

**Notes:**
- in-tpi = nominal thread diameter in inches - threads per inch
- N·m = newton-meters
- ft-lb = foot pounds
- mm x pitch = nominal thread diameter in millimeters x thread pitch

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

### Tire Inflation Chart

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Inflation PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.6 x 38 6 ply Tractor Tread</td>
<td>22</td>
</tr>
<tr>
<td>14.9 x 46 10 ply Tractor Tread</td>
<td>36</td>
</tr>
</tbody>
</table>