

SCHMEISER TILL AN' PAK™ HYDRAULIC TRANSPORT KITS



T. G. SCHMEISER

OPERATION AND PARTS MANUAL

Version 2.0
August 2019

Read and understand the manual. This manual provides information and procedures to safely operate and maintain the Till An' Pak Hydraulic Transport Kit





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INTRODUCTION

This manual has been prepared to instruct the user in the safe and efficient operation of this implement. Read and understand the manual thoroughly and follow all instructions carefully.

Engineered for Long Life

Your Schmeiser TP Hydraulic Transport Kit (implement) is designed to provide many years of dependable service.

The TP Hydraulic Transport Kit is extremely maneuverable in open field, orchard, and vineyard applications.

Serial Number Information

Record the serial number, model number, and date purchased in the space provided in the Serial Number Location section. Be sure to have this information whenever contacting the dealer to order parts or attachments for this implement.

Replacement Parts

Should this implement require replacement parts, contact your local Schmeiser dealer. Always order genuine Schmeiser OEM replacement parts.

Warranty Information

It is important that the Warranty Card be completed and sent to Schmeiser. The warranty will not be valid until the information is on-file at Schmeiser. If information not contained in this manual is needed, contact your Schmeiser dealer.

Thank you for buying a Schmeiser TP Hydraulic Transport Kit.

Model No. _____

Date Purchased. _____

Dealer Name. _____

Factory Contact Information

For questions not answered in this manual, if additional copies are required, or the manual is damaged, please contact your local dealer or:

T. G. Schmeiser Co., Inc.
P.O. Box 1392
Selma, CA 93662

Phone: (559) 268-8128
Fax: (559) 268-3279
E-mail: sales@tgschmeiser.com
Web: www.tgschmeiser.com

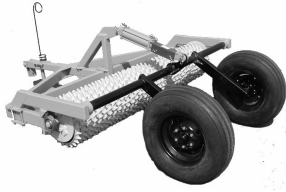
Additional copies of this manual can also be downloaded at www.tgschmeiser.com.

Dealer Contact Information

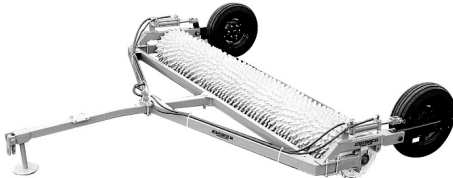
For replacement decals, questions, or to order parts, contact your dealer:



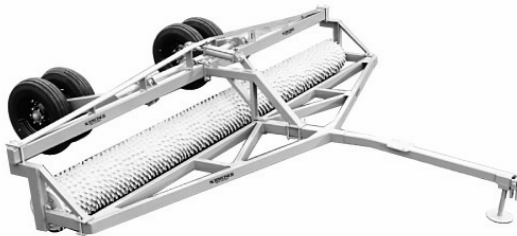
TILL AN' PAK HYDRAULIC TRANSPORT KIT MODELS



TPP3510 – TILL AN' PAKS 2'-0" TO 10'-0"



TPP3520 – TILL AN' PAKS 2'-0" TO 14'-0"

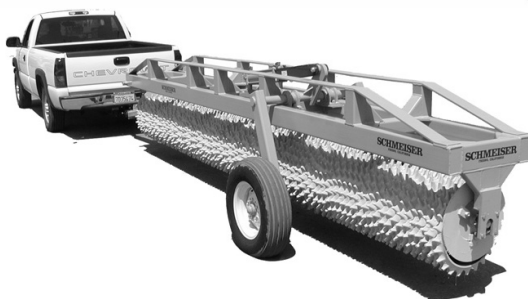


TPP3530 – TILL AN' PAKS 8'-0" TO 24'-0"



TPP3540 – TILL AN' PAKS 8'-0" TO 24'-0"

TPP3540HD – TILL AN' PAKS 16'-0" TO 24'-0"



TPP3550 – STRADDLE AXLE -18'-0" TO 30'-0"

SAFETY

Carefully read and follow all safety precautions before operation. There are obvious and hidden potential hazards involved in the operation of this implement. Serious injury or death may occur unless care is taken to ensure the safety of both the operator and any other persons in the area. Avoid potential danger by taking extra time for thought and a more careful approach to the use of this implement.

Most work related accidents are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. As you assemble, operate, or maintain the unit, you must be alert to potential hazards. You should also have the necessary training, skills, and tools to perform any assembly or maintenance procedures.

Improper operation and maintenance of this unit could result in a dangerous situation that could cause injury or death. T.G. Schmeiser cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this manual and on the product are, therefore, not all-inclusive. If a method of operation not specifically recommended by us is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that the unit will not be damaged or be made unsafe by the methods that you choose.

The information, specifications, and illustrations in this manual are based on the information that was available at the time this material was written and are subject to change without notice.

Safety Alert Symbols



This is the safety alert symbol. It is used to alert you to potential personal injury hazards.

Obey all safety messages that follow this symbol to avoid possible injury or death.

This manual contains DANGERS, SAFETY INSTRUCTIONS, CAUTIONS, IMPORTANT NOTICES, and NOTES which must be followed to prevent the possibility of improper service, damage to the equipment, personal injury, or death. The following key words call the readers attention to potential hazards.

Hazards are identified by the "Safety Alert Symbol" and followed by a signal word such as "DANGER", "WARNING", or "CAUTION".

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.

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE

Indicates that equipment or property damage can result if instructions are not followed.

SAFETY INSTRUCTIONS

Safety instructions (or equivalent) signs indicate specific safety-related instructions or procedures.

Note: Contains additional information important to a procedure.

Safety Icons Nomenclature

This manual and the equipment has numerous safety icons.

These safety icons provide important operating instructions which alert you to potential personal injury hazards.

Personal Protection/Important Information

 READ THE MANUAL

 THINK SAFETY


 MAINTENANCE PROCEDURE

 WEIGHT RATING

 EYE PROTECTION

 HAND PROTECTION

 HEAD PROTECTION

 HEARING PROTECTION

 INSPECT EQUIPMENT

 OEM PARTS ONLY

 PLACE IN NEUTRAL

 PROTECTIVE SHOES


 REMOVE KEY

 DAMAGED HAZARD LABEL

 SLOW VEHICLE PLACARD

 SET PARKING BRAKE

 STOP ENGINE

 SUPPORT STAND USAGE

 USE PROPER TOOLS

 VISUALLY INSPECT


 USE ROPS

 USE CORRECT PARTS


Prohibited Actions


 DO NOT ALTER OR MODIFY


 DO NOT LEAVE OUT TOOLS

 DO NOT WELD


 NO ALCOHOL

 NO CHILDREN

 NO DRUGS

 NO PASSENGERS

 NO RIDERS

 NO BYSTANDERS


Hazard Avoidance

 BLOCK WHEELS


 CRUSHING HAZARD (body)

 CRUSHING HAZARD (foot)


 CRUSH HAZARD (rolling over)

 DEFECTIVE OR BROKEN PART


 FALLING HAZARD


 MAINTAIN SAFE DISTANCE


 OVERTURN HAZARD


 PINCH POINT HAZARD


 SAFETY ALERT SYMBOL


 SHARP OBJECT HAZARD

 ZERO PRESSURE


 COMPRESSED AIR HAZARD

 CRUSH HAZARD

 CRUSH HAZARD

 HIGH PRESSURE FLUID HAZARD

 HOT SURFACE HAZARD

 HEAVY OBJECT HAZARD

GENERAL SAFETY



WARNING



Read and Understand Manual

To prevent personal injury or even death, be sure you read and understand all of the instructions in this manual and other related OEM equipment manuals! This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operations. Do not allow persons to operate or maintain this unit until they have read this manual and have developed a thorough understanding of the safety precautions and how it works.

This unit was designed for a specific application;

DO NOT modify or use this unit for any application other than that for which it was designed.

Units operated improperly or by untrained personnel can be dangerous!



Fall Hazard

Do not use this implement as a work platform. Do not stand on top of the unit at any time. Do not ride on the tractor or the implement or allow others to ride.



Crush Hazard (Rolling Over)

To prevent serious injury or death, before disconnecting, leaving the operator's seat, servicing, adjusting, repairing, or performing other work on the implement, ALWAYS:

1. Stop the tractor or towing vehicle.
2. Shut off the engine and remove the ignition key.
3. Set the brakes.
4. Make sure wheel cylinder transport lock is attached.
5. Relieve hydraulic fluid pressure.



Injury Hazard

Do not permit children to play on or around the unit.



Impaired Operator Hazard

Do not attempt to operate this unit under the influence of drugs or alcohol. Review the safety instructions with all users annually.



Pinch Point /Sharp Object Hazard

Do not place any body parts between moving and / or stationary parts. The weight of the implement will easily cause serious bodily injury.



To prevent injury, use a tractor equipped with a Roll Over Protective System (ROPS).



Visually Inspect

Visually inspect the unit for any loose bolts, worn parts, or cracked welds, and make necessary repairs before using the unit.

Personal Protection Equipment

When working around or operating this unit, wear appropriate personal protective equipment. This list includes but is not limited to:



- A hard hat
- Protective shoes with slip resistant soles
- Protective goggles, glasses, or face shield
- Heavy gloves and protective clothing
- Ear muffs or plugs



Use Properly Rated Tools

To prevent serious injury: Use sufficient tools, jacks, and hoists that have the capacity for the job.



NO PASSENGERS ALLOWED

Do not carry passengers anywhere on or in the tractor or implement.



Rolling Hazard

To prevent serious injury, lock the wheels when performing assembly, maintenance, repairs, or when preparing for storage.

ASSEMBLY SAFETY



WARNING



Crush Hazard

Use support blocks or safety stands rated to support the load when assembling the unit or performing maintenance. Never work under equipment supported by hydraulics. Hydraulics can drop equipment instantly if controls are actuated even when power to the hydraulics is shut off.



Trapped Air Hazard

When installing, replacing, or repairing hydraulic system cylinders or parts, make sure that the entire system is charged and free of air before resuming operations. Failure to bleed the system of all air can result in improper machine operation, causing severe injury.

TOWING SAFETY

WARNING



Unexpected Separation Hazard

If the safety chain does not have a current certification tag, do not use the unit until properly certified chains are installed. Substandard safety chains could allow the unit to separate from the tow vehicle, resulting in equipment damage and personal injury.



Loss of Control

A minimum of 20% of the combined tractor and equipment weight should be on the front wheels to ensure adequate stability during transport and operation. To avoid serious injury or death from a loss of control accident, maintain 20% weight on the front wheels. Add front end weight if necessary.



Hitch and coupling on the towing vehicle must be rated equal to, or greater than, the unit's "gross vehicle weight rating" (GVWR).

SAFETY INSTRUCTIONS



Towing the implement requires care! Both the implement and tow vehicle must be in good working condition. Securely attach the unit to the tow vehicle using a high strength, appropriately sized hitch pin with a mechanical retainer and attach the safety chain.



Check the tires for tread wear, inflation pressure, and overall condition before towing the unit.



Inspect the hitch and coupling for wear or damage. **DO NOT** tow the unit using a defective hitch or coupling!



Make sure the lug nuts holding the wheels are tight (torque to specifications) and that none are missing.



Do not allow anyone to stand between the tongue or hitch and the towing vehicle when backing up to the unit.

Operate the towing vehicle from the operator's seat only.



When transporting, remember the implement may be wider than your tractor and extreme care must be taken to allow for safe clearance.



Be aware of physical surroundings and especially bystanders, particularly children, before moving the unit! This is particularly important with higher noise levels and quiet cabs, as you may not hear people shouting.

Never use independent braking with unit in tow as loss of control and/or upset of unit may result.

Always drive at a safe speed relative to local conditions, and ensure that your speed is low enough for an emergency stop to be safe and secure. Keep speed to a minimum.

Reduce speed prior to turns to avoid the risk of overturning.

Avoid sudden uphill turns on steep slopes.

Always keep the tractor or towing vehicle in gear to provide engine braking when going downhill. Do not coast.

Watch for overhead obstructions and side clearances while transporting.

Always operate equipment in a position to provide maximum visibility at all times. Make allowances for increased length and weight of the equipment when making turns, stopping, etc.

Safety Chain

SAFETY INSTRUCTIONS



Make sure the safety chain from the unit is securely fastened to the tow vehicle.

Always follow state and local regulations regarding a safety chain when towing farm equipment on a public highway.

Do not use any device other than an approved safety chain. Only a safety chain (not an elastic or nylon/plastic tow strap) should be used to retain the connection between the tow vehicle and the unit in the event of separation of the primary attaching system.

Highway and Transport Operations

SAFETY INSTRUCTIONS



Do not exceed a towing speed of more than 20 mph (32 KPH) on a public roadway.

Tires supplied by the manufacturer are designed to operate NO MORE THAN 20 mph. Do not exceed the maximum speed or tire failure may occur.



When transporting the implement on public roads, use approved accessory lighting, flags, or other necessary warning devices to protect operators of other vehicles on the highway during daytime and nighttime transport. Various safety lights and devices are available from your dealer.



When towing the unit on public roads, use flashing amber warning lights and a slow moving vehicle (SMV) identification emblem. Make sure the SMV placard is clearly visible to vehicles approaching from the rear.

Some localities prohibit the use of flashing amber lights. Local laws should be checked for all highway lighting and marking requirements.

Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc. Plan your route to avoid heavy traffic.

Be observant of bridge load restrictions. Do not cross bridges rated lower than the gross weight at which you are operating.

Make sure the wheel lift cylinder transport locks are installed, and the jack stand is in its storage position before transporting the unit.

When transporting the implement on rough or uneven surfaces, drive slowly to prevent bouncing and loss of contact of the front wheels and the ground.

OPERATION SAFETY



WARNING



Crush Hazard (Rolling Over)

Do not clean, lubricate, or make adjustments while the unit is moving.



Never allow inexperienced or untrained personnel to operate the implement or tractor without supervision.



Enter And Exit Tractor

To avoid being run over, do not enter or exit tractor when it is moving. Avoid serious injury or death, from contact with rotating tires, by entering or exiting tractor only when it is completely stopped.



Safe Distance

Keep all bystanders, especially children, away from the tractor and implement during operation.



Overturn Hazard

Pick the most level route possible when transporting across fields. Avoid the edges of ditches, gullies, or steep hillsides. Be especially careful when turning on slopes with the wheels down. Never turn uphill with the wheels down except at slow speed and a low rate of turn. Never transport or operate this machine on steep slopes.

SAFETY INSTRUCTIONS



Periodically clear the unit of brush, twigs, or other materials to prevent buildup of dry, combustible materials.



Visually check all fasteners for tightness or damage before and after operation. Repair immediately if required.

Tractor Requirements



WARNING



Tractor Owner/Operator Manual

Always refer to the tractor Operator's Manual to ensure compatibility and maximum safety. Be familiar with the location, settings, and function of the tractor controls before using this equipment.

SAFETY INSTRUCTIONS

Do not use a tractor of more than the recommended HP to prevent damaging implement components.

Tractor Safety Devices

If transporting or operating the tractor and implement near a public roadway, the tractor must be equipped with proper warning lighting and a Slow Moving Vehicle (SMV) emblem, which are clearly visible from the rear of the unit. Lights and a SMV emblem must be attached directly to the implement if the visibility of the tractor warning signals is obscured.



Never operate the tractor PTO with the PTO master shield missing or in the raised position.

ROPS and Seat Belt

The tractor must be equipped with a Roll Over Protective Structure (ROPS) (tractor cab or roll-bar) and seat belt to protect the operator from falling off the tractor, especially during a roll-over where the driver could be crushed and killed.

Only operate the tractor with the ROPS in the raised position and seat belt fastened.

WARNING

  **Rollover Hazard**
To avoid serious injury or death from falling off tractor, equipment runover, rollover, or crushing:

- 1) Use ROPS equipped tractor.
- 2) Keep ROPS locked in the UP position.
- 3) Only operate the equipment when seated in the tractor seat.
- 4) Always fasten seat belt when operating the tractor and Implement.




Attaching to Tractor

Prior to Connecting Unit


Make sure the unit is resting on the ground or the transport lock is securely installed over the wheel cylinder rod before attaching the unit to the tractor.

Connecting to Tractor

WARNING

   **Crush Hazard**
Use care when attaching the unit to the tractor. Never place any part of your body under the tongue or hitch assembly. Do not allow anyone to stand between moving tractor and implement during hook-up operations.

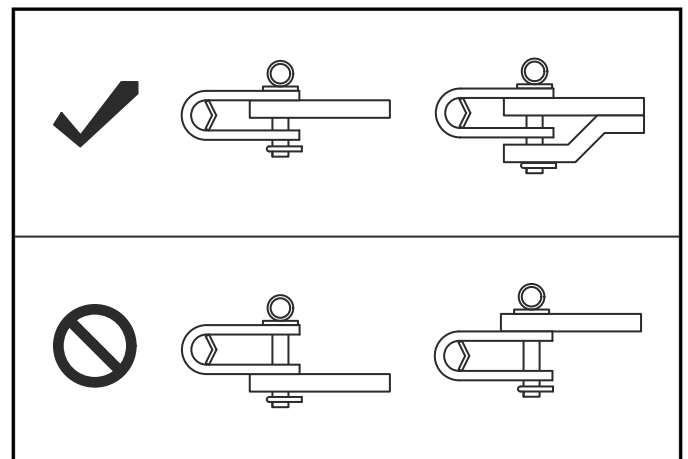
WARNING

 **Unexpected Separation Hazard**
If towing the unit with a drawbar, use only a certified, hardened drawbar pin with a retainer clip. Do not use homemade pins, bolts, or any other type of retaining device. Always install the retainer clip, making sure the hitch and unit are securely fastened to the tow vehicle.

Using a pin not intended for this type of towing can result in unexpected separation of the unit from the tow vehicle, resulting in equipment damage and personal injury.


SAFETY INSTRUCTIONS


Connect implement hitch to the tractor properly.



Hydraulic Component Safety

WARNING

 **High-Pressure Fluid Hazard**
Before applying pressure to the system, make sure all components are tight and that the hydraulic lines, hoses, fittings, and couplings are not damaged.

 **Hydraulic Pressure**
This unit operates with hydraulic pressures of 2500 to 3000 psi (170 to 205 bars).

WARNING



High-Pressure Fluids

1. Check or tighten all connections BEFORE pressurizing system.
2. Release all pressure before removing hoses and/or valves by:
 - a. Stopping engine.
 - b. Holding hydraulic control levers in float or neutral position.
3. DO NOT use your bare hand to check for potential leaks. Always use a board or cardboard when checking for a leak.

Escaping hydraulic fluid under pressure, even a pinhole size leak, can penetrate body tissue, causing serious injury and possible death. If fluid is injected into your skin, it must be treated immediately by a doctor familiar with this type of injury.



Wear proper hand and eye protection when searching for a high-pressure hydraulic leak.

Use a piece of wood or cardboard as a backstop instead of hands to identify and isolate a leak.

If injured by a concentrated high-pressure stream of hydraulic fluid, seek medical attention immediately. Without immediate medical treatment, serious infection or toxic reaction can develop if hydraulic fluid penetrates the surface of the skin.



Trapped Air Hazard

When installing, replacing, or repairing hydraulic system cylinders or parts, make sure that the entire system is charged and free of air before resuming operations. Failure to bleed the system of all air can result in improper machine operation, causing severe injury.



High-Pressure Separation Hazard

Replace any worn, cut, abraded, flattened, or crimped hoses.



Zero Pressure

Relieve pressure from the hydraulic system before servicing or disconnecting from the tractor.



High-Pressure Hazard

Do not make any temporary repairs to the hydraulic lines, fittings, or hoses using tape, clamps, or cement. The hydraulic system operates under extremely high pressure and temporary repairs may fail suddenly and create a hazardous/ dangerous situation.

CAUTION



Explosive Separation Hazard

Be sure all hydraulic pressure is relieved before disconnecting hydraulic lines or fittings between implement and the tractor hydraulic system.

NOTICE

Make sure components in the hydraulic system are kept clean and in good working condition.

MAINTENANCE SAFETY

WARNING



Use Properly Rated Tools

Use sufficient tools, jacks, and hoists that have the capacity for the job.



Crush Hazard

Use support blocks or safety stands rated to support the load when performing maintenance.

SAFETY INSTRUCTIONS

Follow all operating, maintenance, and safety instructions found in this manual.



Understand the service procedure before performing the work. Keep area clean and dry.



Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts.



Do not leave tools lying on the unit.



Do not modify unit or safety devices. Do not weld on the unit. Unauthorized modifications may impair its function and safety.

If equipment has been altered in any way from the original design, the manufacturer does not accept any liability for injury or warranty.



Never replace hex bolts with less than Grade 5 bolts unless otherwise specified. In locations where Grade 8 bolts are used, Grade 8 replacements are required.



Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore the unit to original specifications.

The manufacturer will not accept responsibility for damages as a result of the use of unapproved parts.

Tires Safety

WARNING



Explosive Separation Hazard

Do not attempt to mount a tire onto a wheel unless you have the proper equipment and experience to do the job. Failure to follow proper procedures when mounting a tire on a wheel can produce an explosive separation, which may result in serious injury or death.



Explosive Hazard

Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure, resulting in a tire explosion. Welding can structurally weaken or deform the wheel.



Flying Objects Hazard

Inflating or servicing tires can be dangerous. Whenever possible, trained personnel should be called to service and/or mount tires.

When inflating tires, use a clip-on chuck and extension hose. Always stand to the side of the tire when inflating, and NOT in front of or over the tire assembly. Make sure the tires are inflated evenly.

SAFETY INSTRUCTIONS



Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure.



Check tires for low pressure, cuts, bubbles, damaged rims, or missing lug bolts or nuts.



Keep wheel lug nuts or bolts tightened.



Always install replacement tires and wheels with appropriate capacity to meet or exceed the weight of the unit.

Bolt Torque Requirements

It is extremely important to apply and maintain proper torque on all bolts. Use a torque wrench to assure the proper amount of torque is being applied to the fastener. Start all bolts or nuts by hand to prevent cross threading.

Torque figures indicated in the chart are used for non-greased or non-oiled threads unless otherwise specified. Therefore, do not grease or oil bolts or cap screws unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

The chart gives correct torque values for various bolts and cap screws. Tighten all bolts to the torques specified in the chart unless otherwise noted. Check tightness of bolts periodically, using the bolt torque chart as a guide. Always replace hardware with the same Grade bolt.

WARNING



Equipment Failure

The torque value for bolts and cap screws are identified by their head markings. Replacing higher "Grade" bolts (Grade 5) with lower Grade bolts will lead to equipment failure and can result in injury or death. Always use replacement bolts with the same Grade markings as the removed bolt.

Bolt Diameter	Bolt Torque Specifications			
	Grade 5		Grade 8	
	3 Radial Lines		6 Radial Lines	
	N·m	ft.lbs.	N·m	ft.lbs.
1/4"	12	9	17	12
5/16"	25	19	36	27
3/8"	45	33	63	45
7/16"	72	53	100	75
1/2"	110	80	155	115
9/16"	155	115	220	165
5/8"	215	158	305	220
3/4"	390	290	540	398
7/8"	570	420	880	650
1"	850	630	1320	970

Tire and Lug Torque Specifications

Tire Size	Ply Rating	Lug Size	Lug Torque (lb.ft.)
7.6 x 15	8 Ply	1/2"	80
9.5 x 15	8 Ply	1/2"	80
12.5 x 16	14 Ply	9/16"	70

Welding Repairs



Before performing any type of welding repair to the implement, contact T.G. Schmeiser Co., Inc. for approval. Repair welding must be done with care and with procedures that may be beyond the capabilities of the ordinary welder.



WARNING

Personal Injury Hazard



Repairs or modifications to the implement can result in serious injury or death should these repairs fail.

NOTICE

Anyone performing a welding repair should be certified in accordance to the American Welding Society (AWS) standards.

STORAGE SAFETY



WARNING



Hazard And Information Signs

Replace any missing or hard-to-read safety signs. Safety sign placement and part numbers can be found in the Nomenclature section of this manual.



Damaged Parts Hazard

Do not use this unit if it is in need of repair. If you believe the unit has a defect which could cause damage, injury, or death, you should immediately stop using the unit.

SAFETY INSTRUCTIONS



Store the implement in an area away from human activity.



Do not permit children to play on or around the stored unit at any time.



Block the wheels to prevent the implement from rolling.



When using compressed air to clean implement, wear safety glasses.

DISPOSAL OF EQUIPMENT AT END OF USEFUL LIFE

The T. G. Schmeiser implement has been designed for the specific purpose of conditioning the ground in agricultural applications. When this unit is no longer capable of doing its designed purpose, it should be dismantled and scrapped. Do not use any materials or components from this unit for any other purpose.

SAFETY SIGNS AND DECALS

SAFETY INSTRUCTIONS



Replace all worn or damaged safety and instruction decals.

- It is the responsibility of the customer to know the marking requirements of the local highway authorities and to comply with the regulations.
- Keep safety signs clean and legible at all times. Replace safety signs that are missing or have become illegible.
- Do not paint over, remove, or deface any safety signs or instructional decals on your equipment. Observe all safety signs and follow the instructions on them.

- When parts that display a safety sign are replaced, the replacement part should display the same sign.
- Make sure the safety signs and other instructional decals are legible and attached to the unit before use.
- Safety signs are available from your Distributor, Dealer Parts Department, or the factory.
- Use care when washing or cleaning the unit not to remove or damage the labels.
- Locations for the labels and replacement part numbers are shown in this section.

1.



2.



3.



Item	Part Number	Description	Qty.
1	D48X064HPF	High Pressure Fluids	1
2	D76X040SGB	Transport Safety Chain	1
3	D28X048RBW	Transport Lockout	2

NOTE: D-KIT-HTK Hydraulic Transport Decal Kit (includes all items above)

OPERATION



WARNING



Understand Safety Procedures!

Read and understand all safety procedures described in this manual before performing any work on or around the implement.



Attaching to Tractor

Use caution when connecting the Hydraulic Transport Kit to the tractor. The Hydraulic Transport Kit should be securely resting on the ground. Keep hands and feet from under the implement and clear of pinch points between the tractor drawbar and implement hitch.

Initial Setup Checklist

Efficient and safe operation of the Hydraulic Transport Kit requires that every user read and understand the operational instructions and all related safety instructions outlined in this manual.

This checklist is provided for the user/owner. It is important for both personal safety and to maintain the mechanical condition of the Hydraulic Transport Kit that this checklist is followed.

Initial Setup Checklist (prior to using for the first time)	
Location	Task
	Make sure the Hydraulic Transport Kit is properly mounted to tractor hitch. Refer to "Attaching to Tractor" on page 16.
	Make sure all hardware is properly installed and tightened. Refer to "Maintenance Schedule" on page 18.

Implement Break-In

Although there are no operational restrictions on the Till An' Pak Hydraulic Transport Kit when used for the first time, it is recommended that the following mechanical items be checked:

1. After 1/2 hour of operation:
 - a. Check all fasteners and tighten if necessary.
 - b. Make sure that the roller rings are in good condition.
2. After 10 hours of operation:
 - a. Go to the normal servicing and maintenance schedule, as defined in the Maintenance Section.

General Operating Instructions

1. Familiarize yourself with the Operation and Parts Manual, and make sure the Hydraulic Transport Kit is properly attached to the tractor before beginning work. Inspect the condition of the implement for potential problems or damage. Do not use the implement if it needs repairs of any type.
2. Clear the area of bystanders, especially small children. Make sure that you can clearly see and identify passersby, steep slopes, ditches, drop-offs, power lines, debris, and foreign objects. If you are unable to clearly see these type of items, discontinue operating the Hydraulic Transport Kit.
3. Know the location of all underground cables, pipelines, and other hazards in the area. Also make certain that all irrigation heads, utility outlets, and other obstacles are properly marked.
4. Watch for low hanging limbs, power lines, and other overhead obstacles while you are operating. Use care to avoid hitting these items.
5. Do not operate the Hydraulic Transport Kit, or drive the tractor into material that is burning, or areas that recently burnt and may contain hot spots. Tire damage can occur when driving over hot material. Oil and grease on the tractor and Hydraulic Transport Kit could ignite, resulting in equipment destruction.
6. Slow the tractor when making turns, and remember that the Hydraulic Transport Kit is wider than the tractor when turning.
7. Always operate safely and follow all the instructions in this manual.

Detaching From Tractor

1. Move the Till An' Pak Hydraulic Transport Kit to a level storage location. Park the tractor, place the transmission in park or neutral, and apply the parking brake. Shut down the engine, and remove the key before exiting the tractor.
2. Make sure the implement is resting securely on the ground or blocks before attempting to disconnect it from the tractor. Use extreme care to keep feet and hands from under the Till An' Pak and clear of any pinch points caused by the tractor hitch arms and Hydraulic Transport Kit's hitch pin.
3. Remove the pin from the Hydraulic Transport Kit hitch.
4. Disconnect the lift arms and drive the tractor away

MAINTENANCE



WARNING



Understand Safety Procedures!

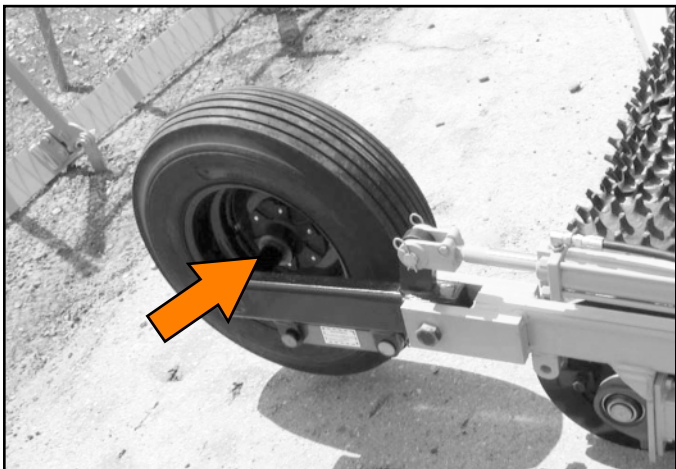
Read and understand all safety procedures described in this manual before performing any work on or around the implement.

Lubrication Points

Add grease to the locations shown.

Wheel Hub Bearings

Re-pack with grease once a season – inspect bearings and races for wear and replace if necessary.



Service Items

Hydraulic Hoses (Optional)

Inspect all hydraulic hoses and fittings for leaks or signs of wear. Replace any that are overly worn or damaged.



Tires (Optional)

Check tire pressure and set to tire manufacturer's recommended specifications. Inspect the tires for wear and/or damage. Make sure the wheel lugs are tightened to the proper torque.





Maintenance Schedule

The period recommended is based on normal operating conditions. Severe or unusual conditions may require more frequent service.

Hours and Serviced By																				
Maintenance																				
Before Each Use																				
Ensure that all fasteners are tight, and all pins are secured in place.																				
Inspect the frame for structural fractures.																				
Make sure all warning decals are in place and legible.																				
Inspect all tires for signs of wear. Make sure they are properly inflated.																				
Every 50 Hours or Weekly																				
Perform the Daily Maintenance schedule.																				
Lubricate zerk fittings on ring roller bearings with a good general purpose grease.																				
Check tire pressure and set to tire manufacturer's recommended specifications. Inspect the tires for wear and/or damage. Make sure the wheel lugs are tightened to the proper torque. Refer to "Tire and Lug Torque Specifications" on page 13.																				
Every 1000 Hours or Annually																				
Perform the Daily Maintenance schedule.																				
Perform the Weekly Maintenance schedule.																				
Lubricate zerk fittings on the transport wheel bearing hubs with a good quality wheel bearing grease. Fill each cavity just until resistance is felt. Do not force grease past the seals.																				
Remove debris and clean the entire implement with compressed air or a pressure washer.																				
Remove rust and apply a coat of paint to frame surfaces where the paint has been worn off or damaged.																				



STORAGE

Storage Preparation

After work is completed for a season, perform the following maintenance procedures before storing the implement.

1. Apply a thin layer of grease or rust preventative to all exposed metal surfaces of the adjustable mechanisms (threaded rods, etc.).
2. Check all bolted connections. Ensure that the fasteners are tight, and all retaining pins are secured in place with appropriate retaining clips.
3. Inspect the frame for structural fractures.
4. Make sure all the warning decals are in place and legible. Replace any worn decals as needed.
5. Thoroughly wash the implement with a pressure washer or water hose to remove all dirt, mud, or debris.
6. Drain water from the roller tube (if applicable).
7. Lubricate the grease fittings with a good general purpose lithium grease. Refer to "Lubrication Points" on page 17 for the location of the fittings.
8. To help prevent corrosion, remove rust and apply a coat of paint to frame surfaces where paint has been worn off or damaged.
9. Make sure the implement is stored in an area with a firm and level base to prevent it from tipping or sinking into the ground. For best results, always store the Hydraulic Transport Kit in a dry, protected location. Leaving this implement unprotected will shorten the service life.

Placing In Storage

1. Select an area that is dry, level, and free of debris (inside a building is ideal). Move the Hydraulic Transport Kit to its storage area.
2. Disconnect the Hydraulic Transport Kit from the tractor and drive the tractor away from the implement. Do not leave the tractor attached to the Hydraulic Transport Kit.

Removing From Storage

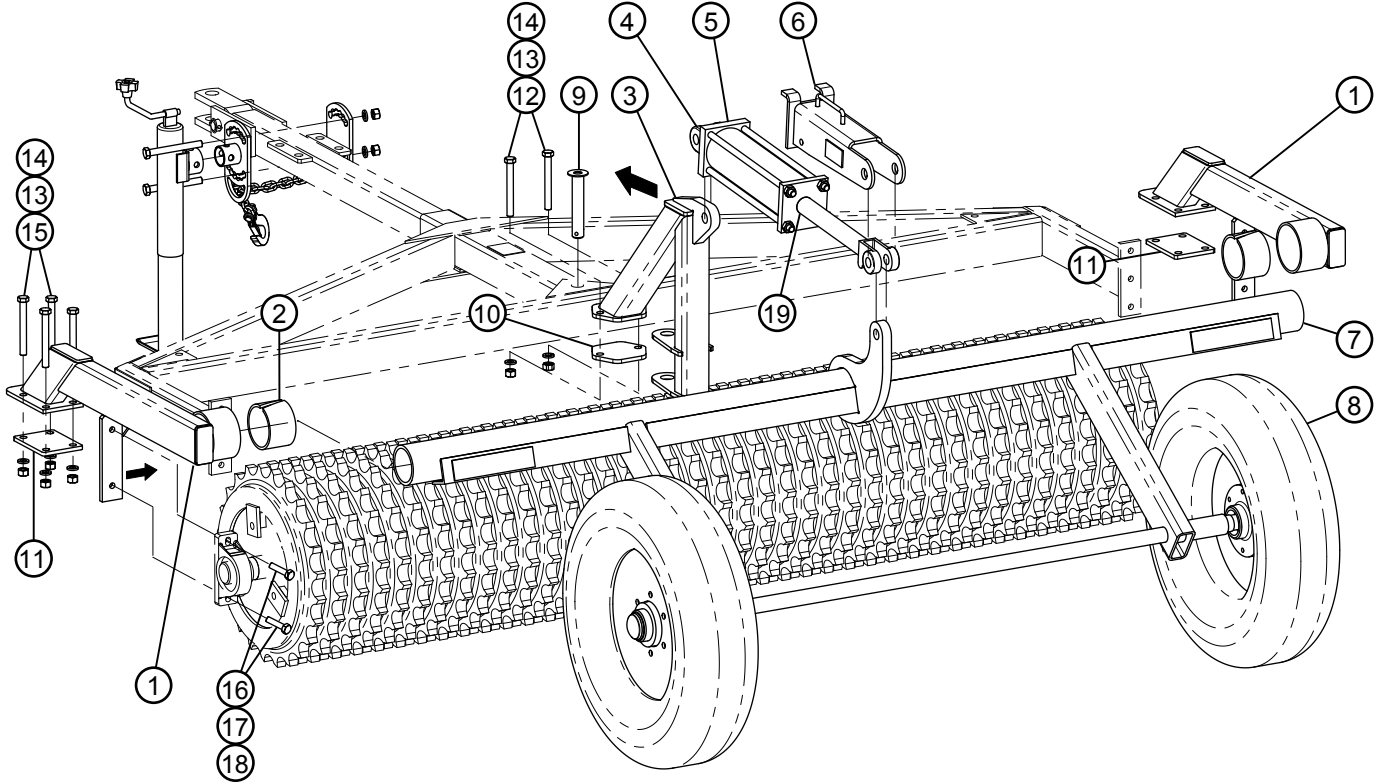
Prior to use each season, perform the following inspection and maintenance.

1. Read the operator's manual to review all safety, operational, and maintenance procedures.
2. Perform any recommended maintenance that was not completed when the implement was put into storage.

3. Visually inspect the implement for wear or damage.
4. Make sure all the warning decals are in place and legible. Replace any damaged or missing decals.
5. Attach the Hydraulic Transport Kit to the tractor. Refer to "Attaching to Tractor" on page 16.

TPP3510 HYDRAULIC TRANSPORT KIT

TPP3510 Transport Kit Assembly

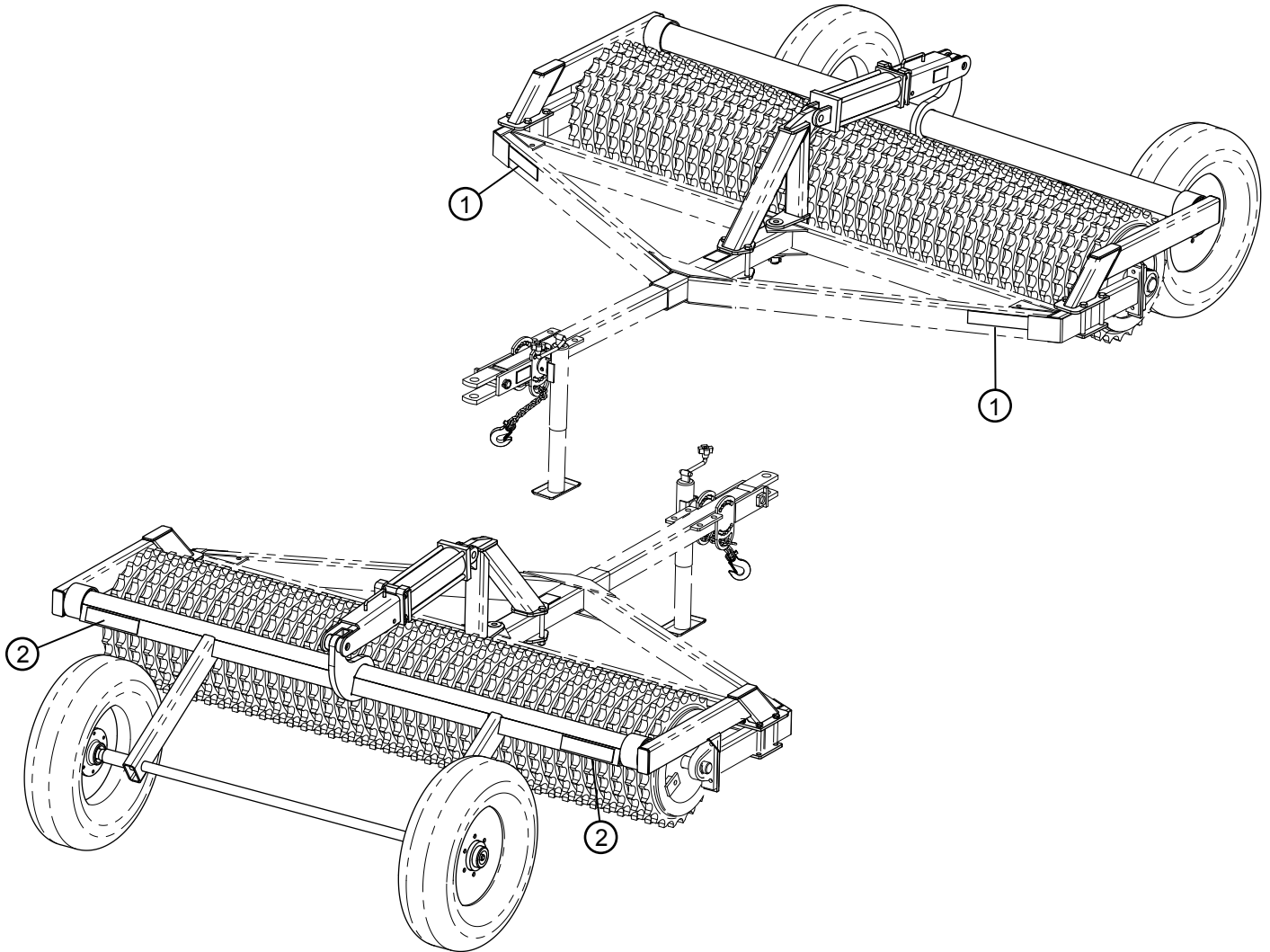


Item	Part Number	Description	Q'ty
1	HT1-00A000L HT1-00A000R	End Mount LH and RH	1 of ea.
2	HT1-00C006	Wheel Axle Bearing - UHMW	2
3	HT1-00B000	Center Frame	1
4	GHC-40120T	4" X 12" Tie Rod Hydraulic Cylinder	1
5	FMBMJ9088	1/2" MB-MJ Elbow Fitting	2
6	GWD-412LB1	Lockout Bar for 4" X 12" Hyd. Cylinder	1
7	HT1-00C000	Wheel Axle (specify size)	1
8	GWT-156LBH GWT-761508	15" X 6" Wheel (see p. for Hub Ass'y) 7.6" X 15" Tire with Wheel (Optional)	2
9	TPP3010	1-1/8" X 6" Tongue Pin	1

Item	Part Number	Description	Q'ty
10	HT1-00B007	Center Frame Front Clamp Plate	1
11	HT1-00A007	End Mount Bottom Clamp Plate	2
12	CSNC510088	5/8" X 5-1/2" Gr.5 NC Cap Screw	2
13	LWASHER-10	5/8" Lock Washer	10
14	HXNUT-10NC	5/8" NC Hex Nut	10
15	CSNC510096	5/8" X 6-1/2" Gr.5 NC Cap Screw	8
16	CSNC508048	1/2" X 3" Gr.5 NC Cap Screw	4
17	LWASHER-08	1/2" Lock Washer	4
18	HXNUT-08NC	1/2" NC Hex Nut	4
19	PMCK-34000	Seal Kit for 4" X 12" Hydraulic Cylinder	1

TPP3510 Safety Marking and Lighting

NOTE: TPP3510 Hydraulic Transport Kit does not require safety lights.



Item	Part Number	Description	Q'ty
1	D-2X9RY	Reflective Tape, Yellow	2
2	D-2X9RR	Reflective Tape, Red	2

TPP3510 Transport Kit Assembly Instructions



WARNING

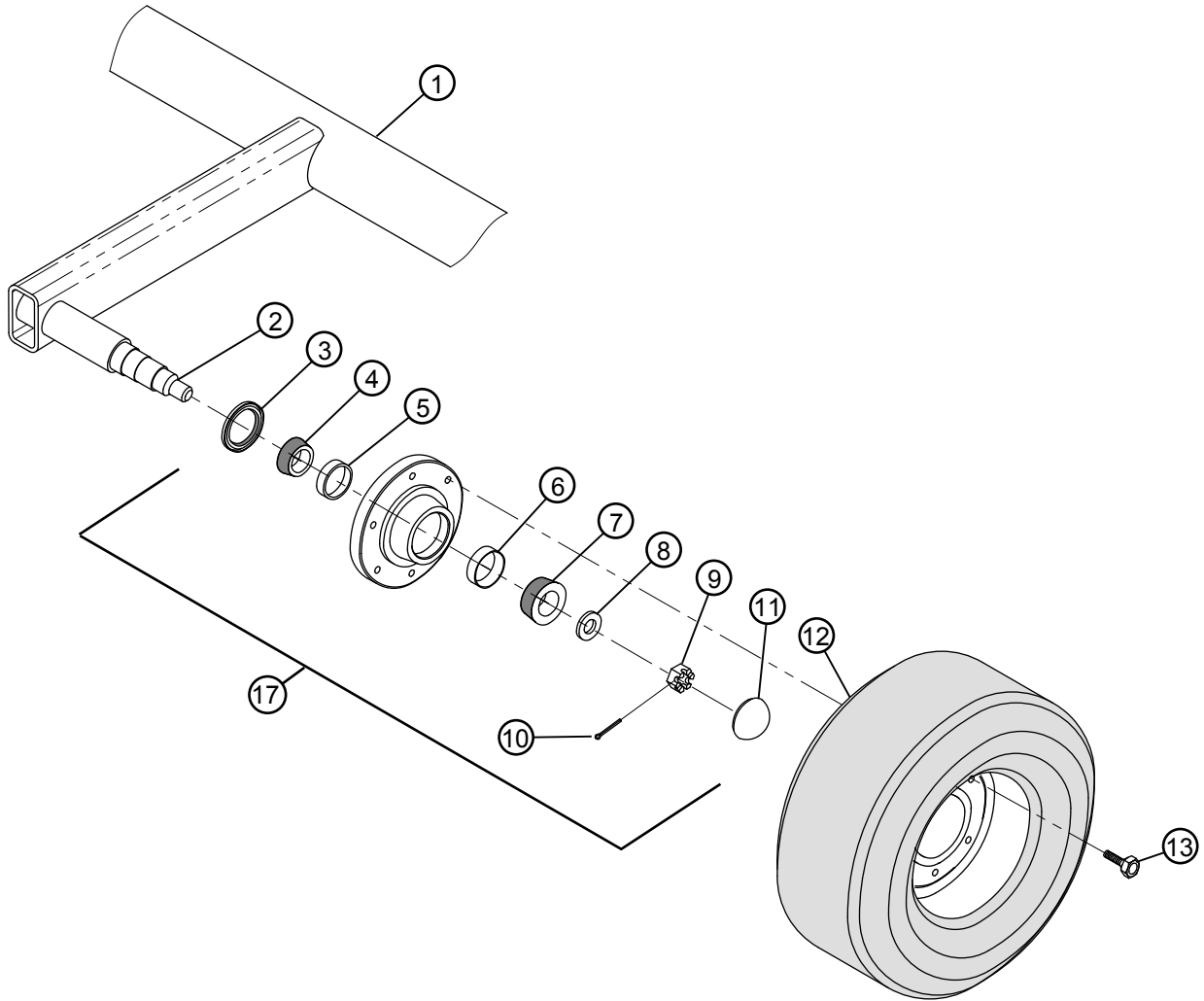


Understand Safety Procedures!

Read and understand all safety procedures described in this manual before performing any work on or around the implement.

1. Lay Till An' Pak Frame on ground.
2. Unbolt Till An' Pak Frame from Pillow Block Bearings on Roller. Leave Roller attached to Pillow Block Bearings.
3. Position each End Mount (1) between Till An' Pak Frame and Pillow Block Bearing (9). - Refer to the drawing for positioning.
4. Place Wheel Axle (7) with Plastic Bushings (2) between End Mounts (1). The Cylinder anchor on the Wheel Axle should be facing in the upward position.
5. Bring in End Mounts (1) and install and tighten all fasteners.
 - Use (4) 1/2" x 3" Bolts to fasten Pillow Block Bearing, End Mount, and Till An' Pak Frame.
 - Use (8) 5/8" x 6" Bolts to attach End Mount to Bottom Clamp Plate (11).
6. Remove Tongue Pin from Till An' Pak Frame. It is located at the base of the Frame tongue guide.
7. Position Center Frame (3) on the tongue guide of the Till An' Pak frame. The two ears at the bottom of the center bracket should slide over the tongue guide pin hole of the Till An' Pak frame. The cylinder anchor portion of the Center Frame should be facing upward at a 45-degree angle aimed toward the rear of the unit. Refer to the drawing for the positioning.
8. Place 1-1/2" x 6-1/2" Tongue Pin in the tongue guide hole. Remember, the tongue, the Center Frame and the tongue guide hole on the frame all have to line up in order to properly install the tongue pin.
 - Use (2) 5/8" x 5-1/2" Bolts to attach Center Frame to Front Clamp Plate.
9. Attach 4" x 12" Tie Rod Hydraulic Cylinder (4) to Center Frame and Wheel Axle. The rod clevis of the cylinder should attach to the wheel axle cylinder anchor.
10. Install Cylinder Lockout Bar (4). See drawing for proper installation.
11. Install wheels / tires on the wheel axle.

TPP3510 Transport Kit Wheel Axle Hub Assembly

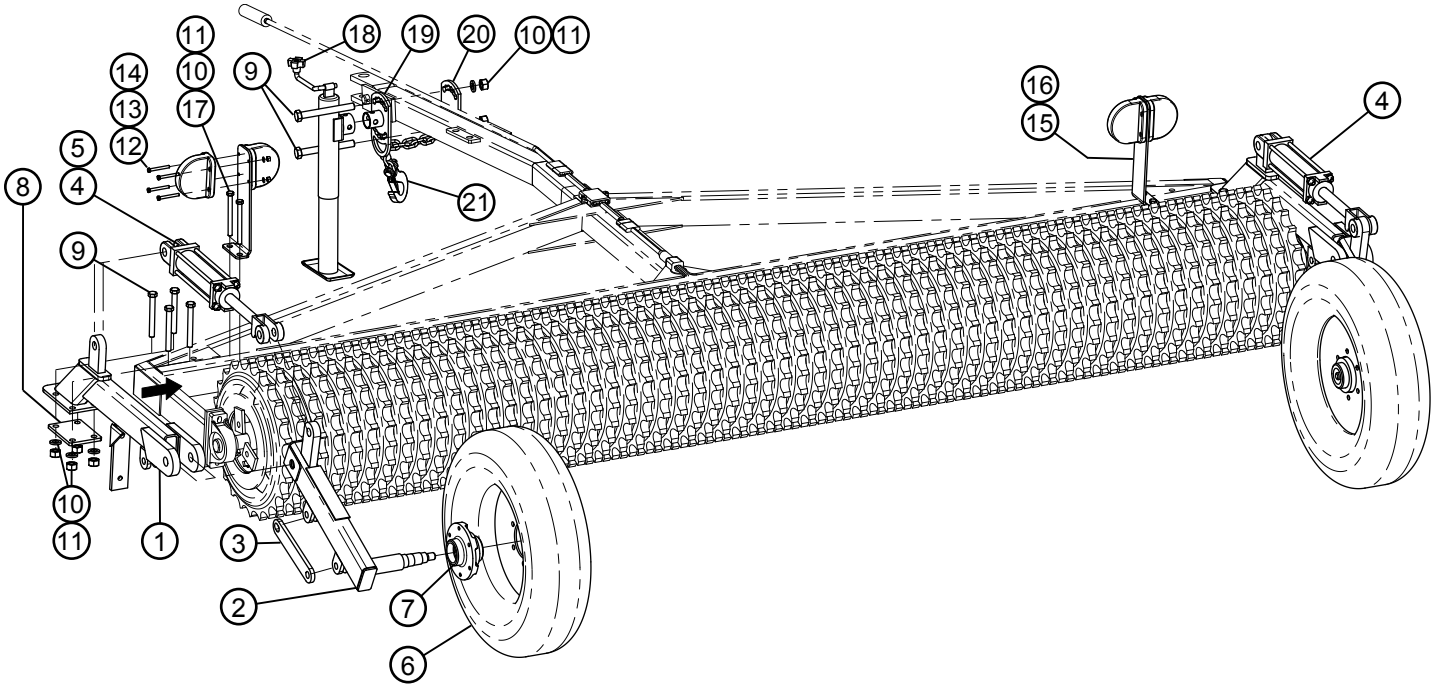


Item	Part Number	Description	Q'ty
1	HT1-00C000	Wheel Axle (specify size)	1
2	GSP-32176S	2" x 11" Single Ended Spindle (includes items 8, 9, 10)	2
3	GHB-6X6GSL	Grease Seal CR16289	4
4	GHB-6X6ICN	Inner Bearing Cone	4
5	GHB-6X6IRC	Inner Bearing Cup	4
6	GHB-6X6ORC	Outer Bearing Cup	4
7	GHB-6X6OCN	Outer Bearing Cone	4

Item	Part Number	Description	Q'ty
8	FWASHER-14	Spindle Washer	4
9	GSP-14CANT	Spindle Castle Nut	4
10	GPN-03X32C	3/16" x 2" Cotter Pin	4
11	GHB-6X6CAP	Hub Cap	4
12	GWT-761508	7.60 X 15 8 Ply Tire with Wheel (Optional)	4
13	WHB-08X016	Wheel Bolts for 6 on 6 Hub	24
17	GHB-6X6STD	Standard 6 x 6 Hub Assembly Complete (includes items 3, 4, 5, 6, 7, 11, and 13)	4

TPP3520 HYDRAULIC TRANSPORT KIT

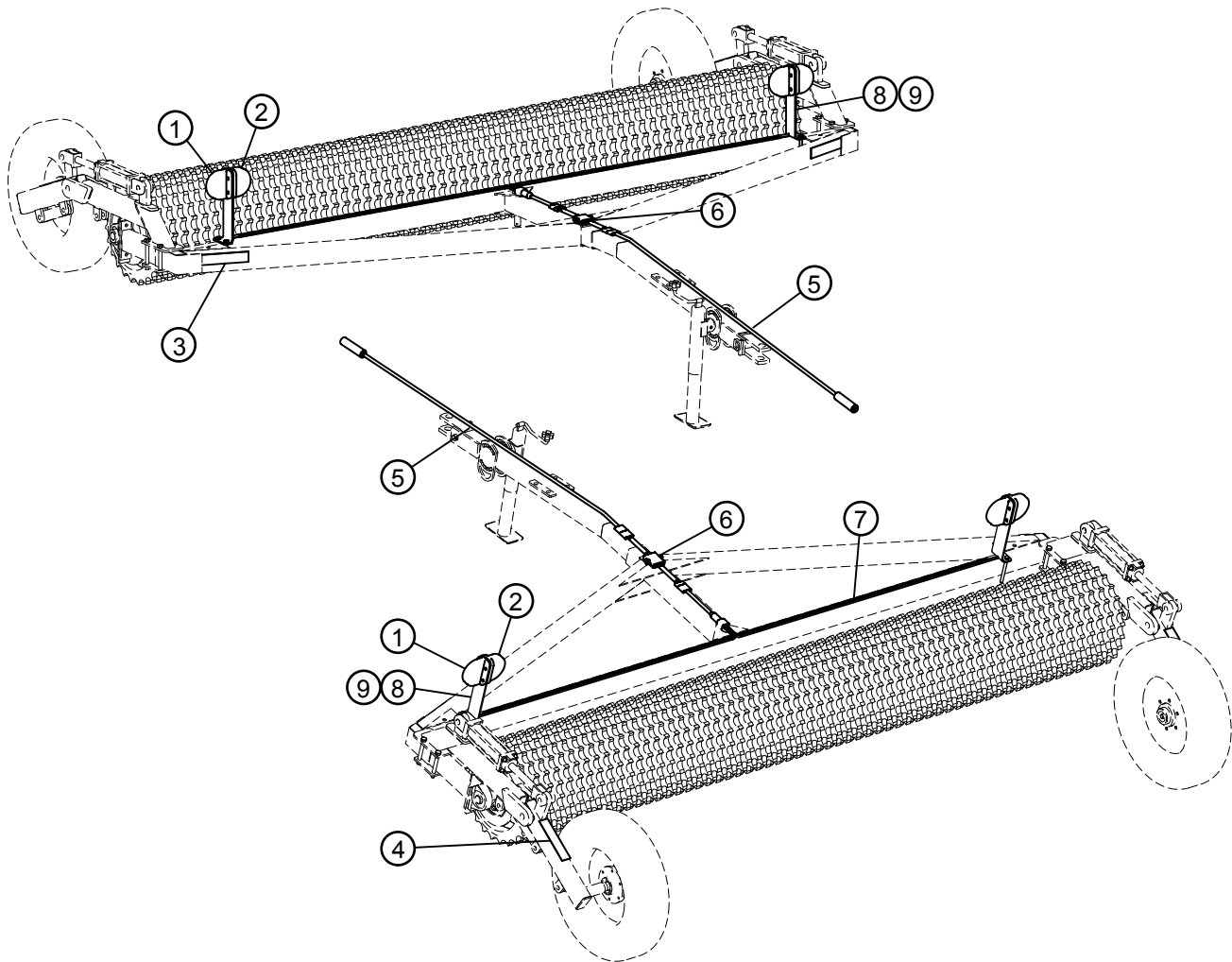
TPP3520 Transport Kit Assembly



Item	Part Number	Description	Q'ty
1	HT2-00A000L HT2-00A000R	End Mount LH and RH	1 of ea.
2	HT2-00B000L HT2-00B000R	Tire Axle Leg LH and RH	1 of ea.
3	HT2-00B003	Tire Axle Lockout Bar	2
4	GHC-25080T	2.5" X 8" Tie Rod Hydraulic Cylinder	12
5	FMBMJ9088	1/2" MB-MJ Elbow Fitting	2
6	GWT-156LBH GWT-761508	15" X 6" Wheel (see p.27 for Hub Ass'y) 7.6" X 15" Tire with Wheel (Optional)	2
7	GHB-6X6STD	6" X 6" Standard Hub Assembly	2
8	HT2-00A007	Bracket Mounting Clamp Plate	2
9	CSNC510096	5/8" X 6" Gr.5 NC Cap Screw	8

Item	Part Number	Description	Q'ty
10	LWASHER-10	5/8" Lock Washer	18
11	HXNUT-10NC	5/8" NC Hex Nut	18
12	CSNC204040 CSNC504024	1/4" X 2" Gr.2 NC Cap Screw (12'-13') 1/4" X 1-1/2" Gr.5 NC Cap Screw (14'-15')	8 16
13	LWASHER-04	1/4" Lock Washer	8
14	HXNUT-04NC	1/4" NC Hex Nut	8
15	HT2-00D100	Light Mount Bracket (12' and up only)	2 or 4
16	HT2-00D200	Light Mount Bracket Plate (12' and up)	2 or 4
17	CSNC510088	5/8" X 5-1/2" Gr.5 NC Cap Screw	4 or 8
18	GJK-2KTW10	Jack Stand 2000# Cap. TW	1
19	GWD-COLLAR	Detachable Jack Collar Assembly	1
20	GPR-L03816	Jack Stand Collar Mount Plate	1
21	GMB-CH05CH	Safety Chain with Hook - Gr.70	1

TPP3520 Safety Marking and Lighting



Item	Part Number	Description	Q'ty
1	GLT-LSDY	Lamp, Surface Mount Double Yellow	2
2	GLT-LSSR	Lamp, Surface Mount Single Red	2
3	D-2X9RY	Reflective Tape, Yellow	8
4	D-2X9RR	Reflective Tape, Red	2
5	GLT-HF10	Front Harness, 10 Ft. Long	1
6	GLT-FCM	Flasher Control Module	1
7	GLT-HW1024	Rear Wishbone Harness 10 Ft.-24 Ft.	1
8	HT2-00D100	Light Bracket Bolt-On	2
9	HT2-00D200	Light Bracket Mount Plate	2

TPP3520 Transport Kit Assembly Instructions



WARNING

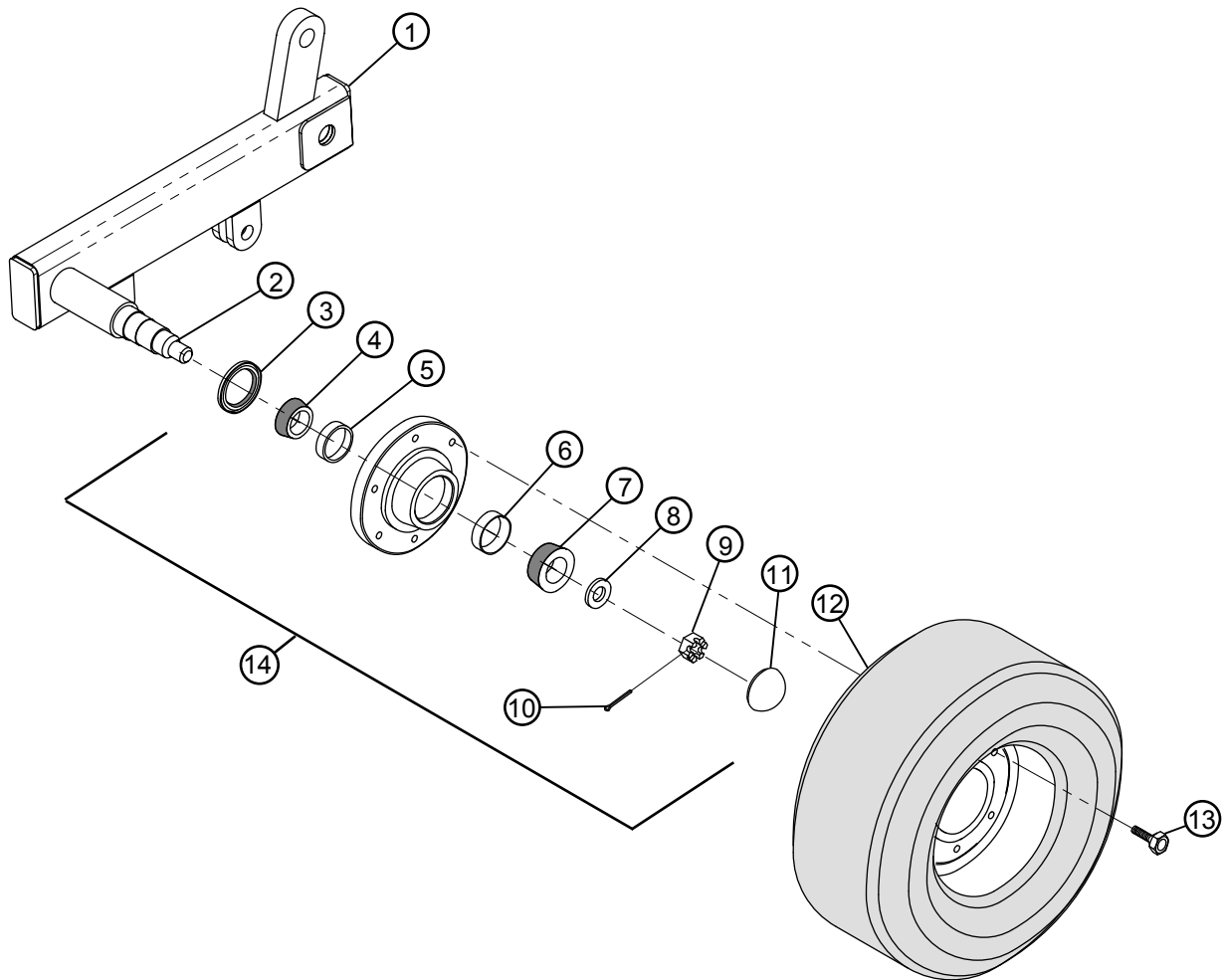


Understand Safety Procedures!

Read and understand all safety procedures described in this manual before performing any work on or around the implement.

1. Lay Till An' Pak Frame on ground.
2. Unbolt Till An' Pak Frame from Pillow Block Bearings on Roller. Do not remove Pillow Block Bearings from Roller.
3. Position each End Bracket (1) with attached Tire Axle Leg (2) between Till An' Pak Frame and Pillow Block Bearing.
 - Be sure to properly place left side and right side End Brackets in place. Refer to the drawing on page for positioning.
 - Use (4) 1/2" x 3" Bolts to fasten Pillow Block Bearings with Roller attached, End Brackets with Tire Axle Legs attached, and Till An' Pak Frame.All fasteners - hand tighten only!
4. Position Hydraulic Cylinder (4) with rod side facing toward wheel. Attach cylinder side with Cylinder Pin. Next, position other end of Cylinder same way (Note: Elevation of wheel may be necessary in order to align holes.)
5. Position Hydraulic Hose Manifold on tongue guide, with fittings facing toward rear of unit. Manifold distance is adjustable. (Not shown on picture)
6. Connect retract and extend hoses to "T" fitting, then all lead hoses to tractor.
7. Securely tighten all fasteners.

TPP3520 Transport Kit Tire Leg Hub Assembly

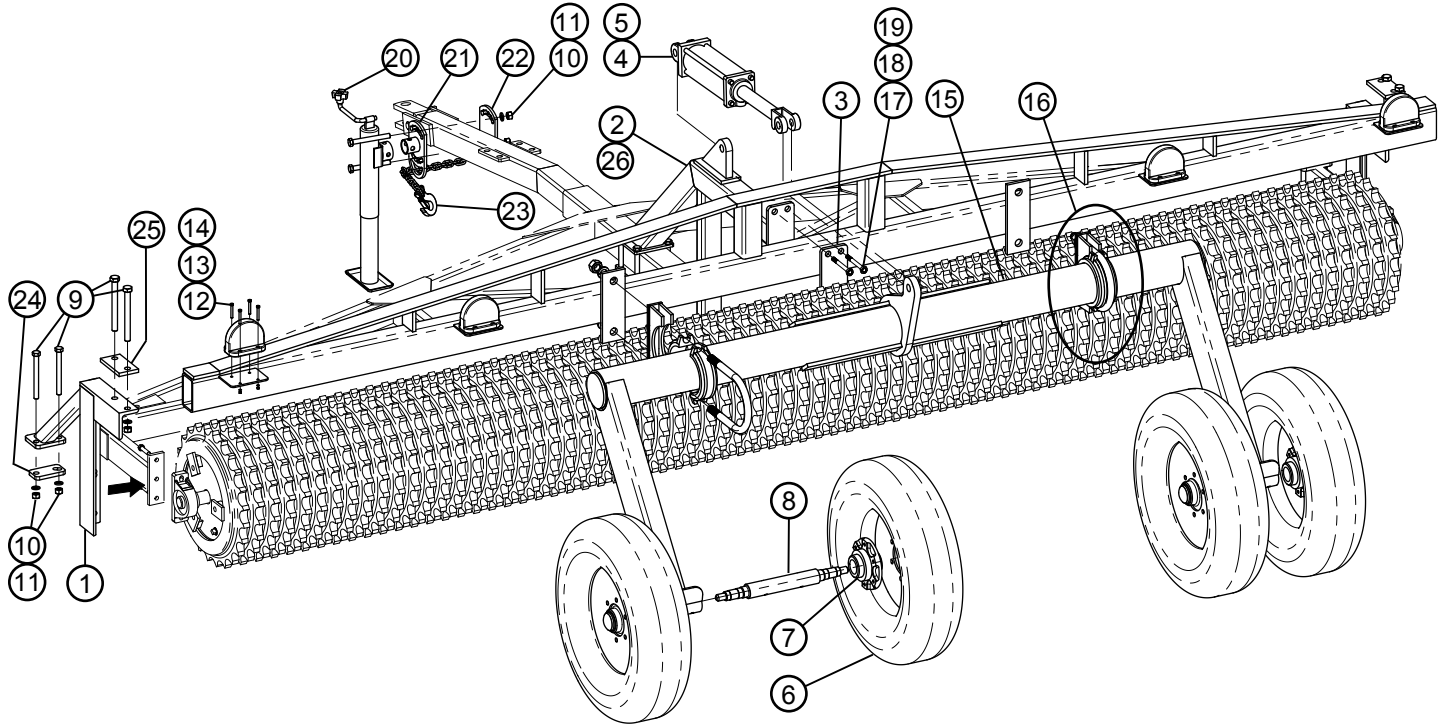


Item	Part Number	Description	Q'ty
1	HT2-00B000L	Tire Axle Leg LH	1 of ea.
	HT2-00B000R	Tire Axle Leg RH	
2	GSP-32176S	2" x 11" Single Ended Spindle (includes items 8, 9, 10)	2
3	GHB-6X6GSL	Grease Seal CR16289	4
4	GHB-6X6ICN	Inner Bearing Cone	4
5	GHB-6X6IRC	Inner Bearing Cup	4
6	GHB-6X6ORC	Outer Bearing Cup	4
7	GHB-6X6OCN	Outer Bearing Cone	4

Item	Part Number	Description	Q'ty
8	FWASHER-14	Spindle Washer	4
9	GSP-14CANT	Spindle Castle Nut	4
10	GPN-03X32C	3/16" x 2" Cotter Pin	4
11	GHB-6X6CAP	Hub Cap	4
12	GWT-761508	7.60 X 15 8 Ply Tire with Wheel (Optional)	4
13	WHB-08X016	Wheel Bolts for 6 on 6 Hub	24
14	GHB-6X6STD	Standard 6 x 6 Hub Assembly Complete (includes items 3, 4, 5, 6, 7, 11, and 13)	4

TPP3530 HYDRAULIC TRANSPORT KIT

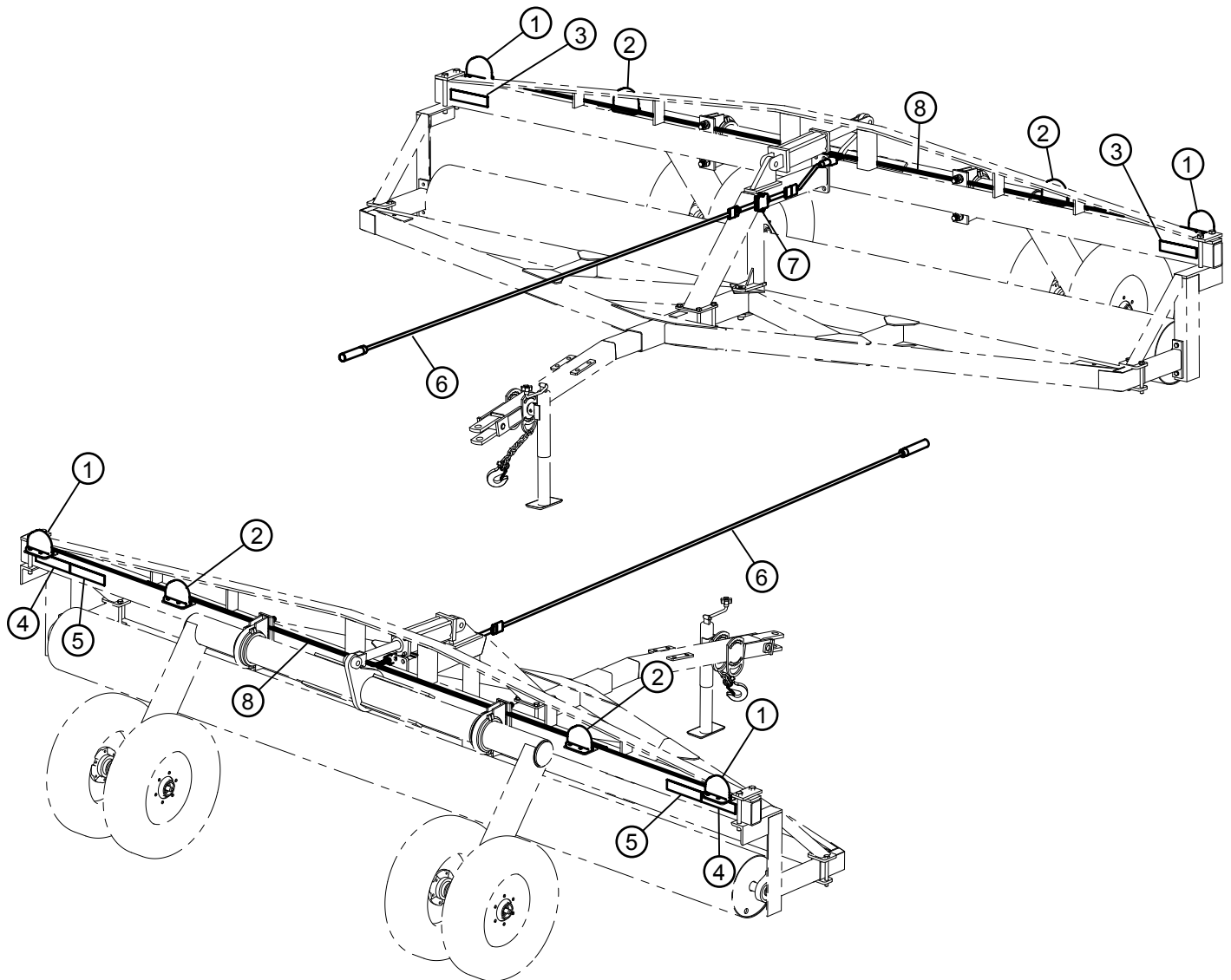
TPP3530 Transport Kit Assembly



Item	Part Number	Description	Q'ty
1	HT3-00B000L HT3-00B000R	End Bracket LH and RH	1 of ea.
2	HT3-00A000	Center Bracket	1
3	HT3-00A008	Center Bracket to Cross Bar Clamp Pl.	1
4	GHC-35100T	3.5" X 10" Tie Rod Hydraulic Cylinder	1
5	FMBMJ9088	1/2" MB-MJ Elbow Fitting	2
6	GWT-156LBH GWT-761508	15" X 6" Wheel (see p.32 for Hub Ass'y) 7.6" X 15" Tire with Wheel (Optional)	2 or 4
7	GHB-6X6STD	6" X 6" Standard Hub Assembly	2 or 4
8	HT3-00C200 TBU-01G016	2" X 14" Single Removable Spindle 2" x 20" Double Removable Spindle	2
9	CSNC510096	5/8" X 6" Gr.5 NC Cap Screw	8
10	LWASHER-10	5/8" Lock Washer	8
11	HXNUT-10NC	5/8" NC Hex Nut	8

Item	Part Number	Description	Q'ty
12	CSNC504024	1/4" X 1-1/2" Gr.5 NC Cap Screw (14'-15')	16
13	LWASHER-04	1/4" Lock Washer	16
14	HXNUT-04NC	1/4" NC Hex Nut	16
15	HT3-00C000	Wheel Axle	1
16	SLL1353	Wheel Axle Bearing Assembly (see p. 31)	2
17	CSNC512080	3/4" X 5" Gr.5 NC Cap Screw	4
18	LWASHER-12	3/4" Lock Washer	4
19	HXNUT-12NC	3/4" NC Hex Nut	4
20	GJK-2KTW10	Jack Stand 2000# Cap. TW	1
21	GWD-COLLAR	Jack Stand Collar Detachable	1
22	GPR-L03816	Jack Stand Collar Mount Plate	1
23	GMB-CH05CH	Safety Chain with Hook - Gr.70	1
24	HT3-00B005	End Bracket to Frame Clamp Plate	2
25	HT3-00B006	End Bracket to Cross Bar Clamp Plate	2
26	HT3-00A007	Center Bracket to Frame Clamp Plate	1

TPP3530 Safety Marking and Lighting



Item	Part Number	Description	Q'ty
1	GLT-LSDY	Lamp, Surface Mount Double Yellow	2
2	GLT-LSSR	Lamp, Surface Mount Single Red	2
3	D-2X9RY	Reflective Tape, Yellow	8
4	D-2X9RR	Reflective Tape, Red	2
5	D-2X9FL	Fluorescent Tape, Orange	2
6	GLT-HF10*	Front Harness, 10 Ft. Long*	1
7	GLT-FCM	Flasher Control Module	1
8	GLT-HW1024	Rear Wishbone Harness 10 Ft.-24 Ft.	1

* NOTE: GLT-HF15 Front Harness 15 ft. long required for longer tongues (100" and up - custom request).

TPP3530 Transport Kit Assembly Instructions



WARNING



Understand Safety Procedures!

Read and understand all safety procedures described in this manual before performing any work on or around the implement.

1. Lay Till An' Pak Frame on ground.
2. Unbolt Till An' Pak Frame from Pillow Block Bearings on Roller. Do not remove Pillow Block Bearings from Roller.
3. Position each End Bracket (1) between Till An' Pak Frame and Pillow Block Bearing.
 - Be sure that the angle iron leg of the End Bracket points inward. Refer to the drawing for positioning.
 - Use (4) 1/2" x 3" or (4) 5/8" x 3" Bolts to fasten Pillow Block Bearing, End Bracket, and Till An' Pak Frame.
 - Use (4) 5/8" x 6" Bolts to attach End Bracket - Roller Frame Mount Plate.All fasteners - hand tighten only!
4. Remove Tongue Pin from Till An' Pak Frame. It is located at the base of the Frame tongue guide.
5. Position Center Bracket (2) on the tongue guide of the Till An' Pak frame. The two ears at the bottom of the center bracket should slide over the tongue guide pin hole of the Till An' Pak frame. The cylinder anchor portion of the Center Bracket should be facing upward at a 45-degree angle aimed toward the rear of the unit. Refer to the drawing for the positioning.
 - Place 1-1/2" x 6-1/2" Tongue Pin in the tongue guide hole. Remember, the tongue, the Center Bracket and the tongue guide hole on the frame all have to line up in order to properly install the tongue pin.
 - Use (4) 5/8" x 6" Bolts to attach Center Bracket - Roller Frame Mount Plate.All fasteners - hand tighten only!
6. Position Main Cross Bar on top of the End Bracket. The bar should be placed between the two holes on the topside of the End Bracket. The truss strap should be positioned on the top and the two sets of the Bearing Mount Plates welded on the Main Cross Bar should be placed to the back side of the machine.

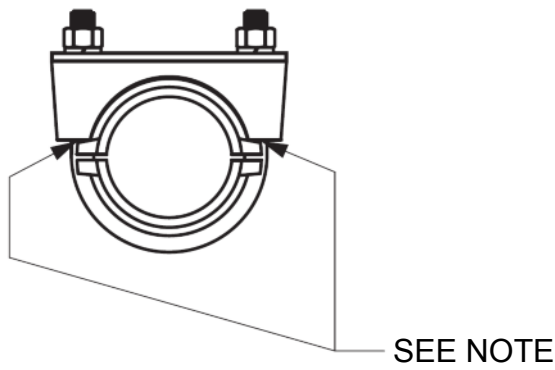
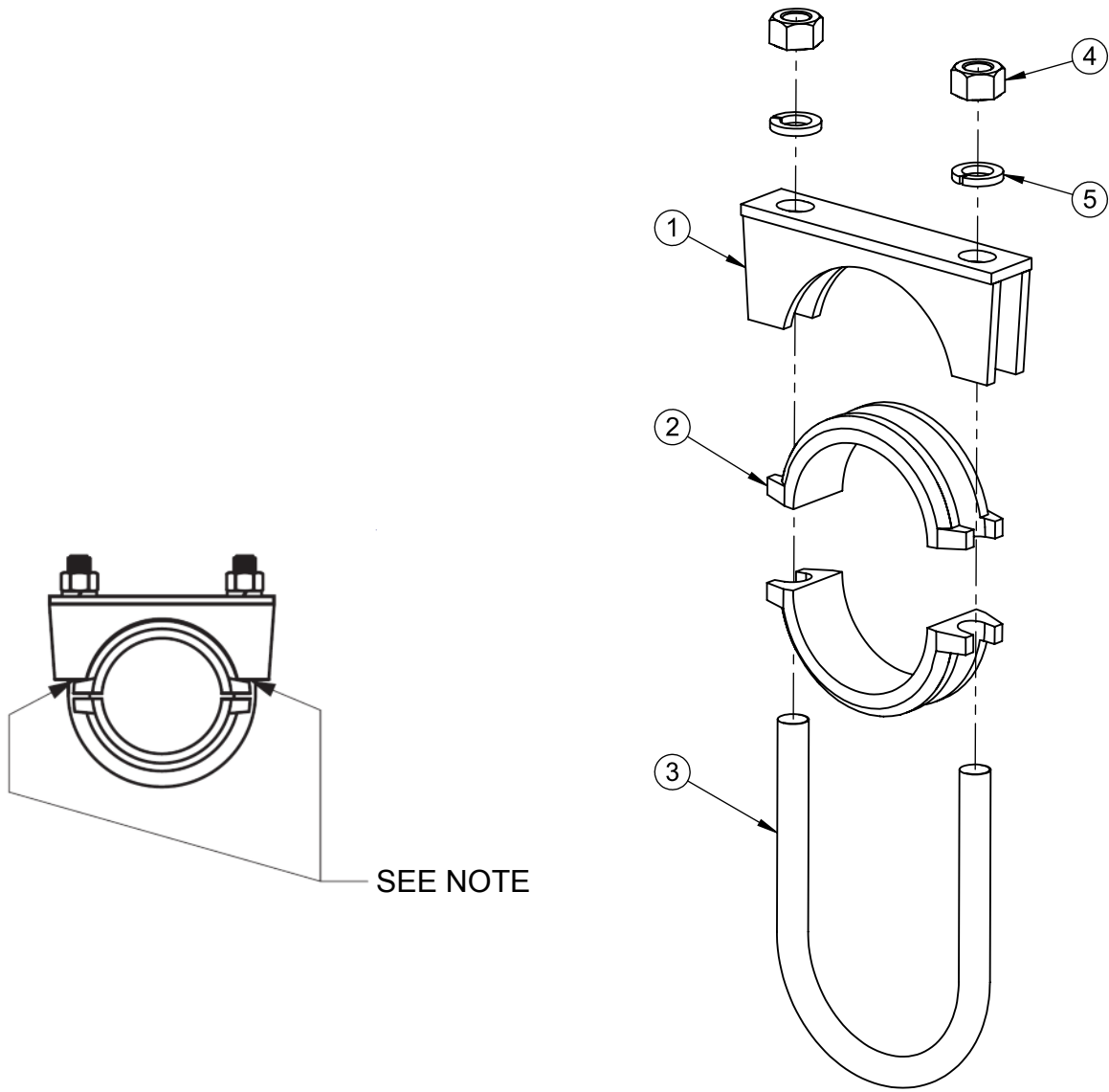
- Use (4) 3/4" x 5" Bolts to attach Center Bracket - Main Cross Bar Mount Plate.

- Use (4) 3/4" x 7-1/2" Bolts to attach Main Cross Bar - End Bracket Mount Plate.

All fasteners - hand tighten only!

7. Attach Wheel Axle (15) to Main Cross Bar using the Bearing Assemblies. The Cylinder anchor on the Wheel Axle should be facing in the upward position.
8. Attach 3-1/2" x 10" Hydraulic Cylinder (4) to Center Bracket and Wheel Axle. The rod clevis of the cylinder should attach to the wheel axle cylinder anchor.
9. Securely tighten all fasteners.

TPP3530 Wheel Axle Bearing Assembly

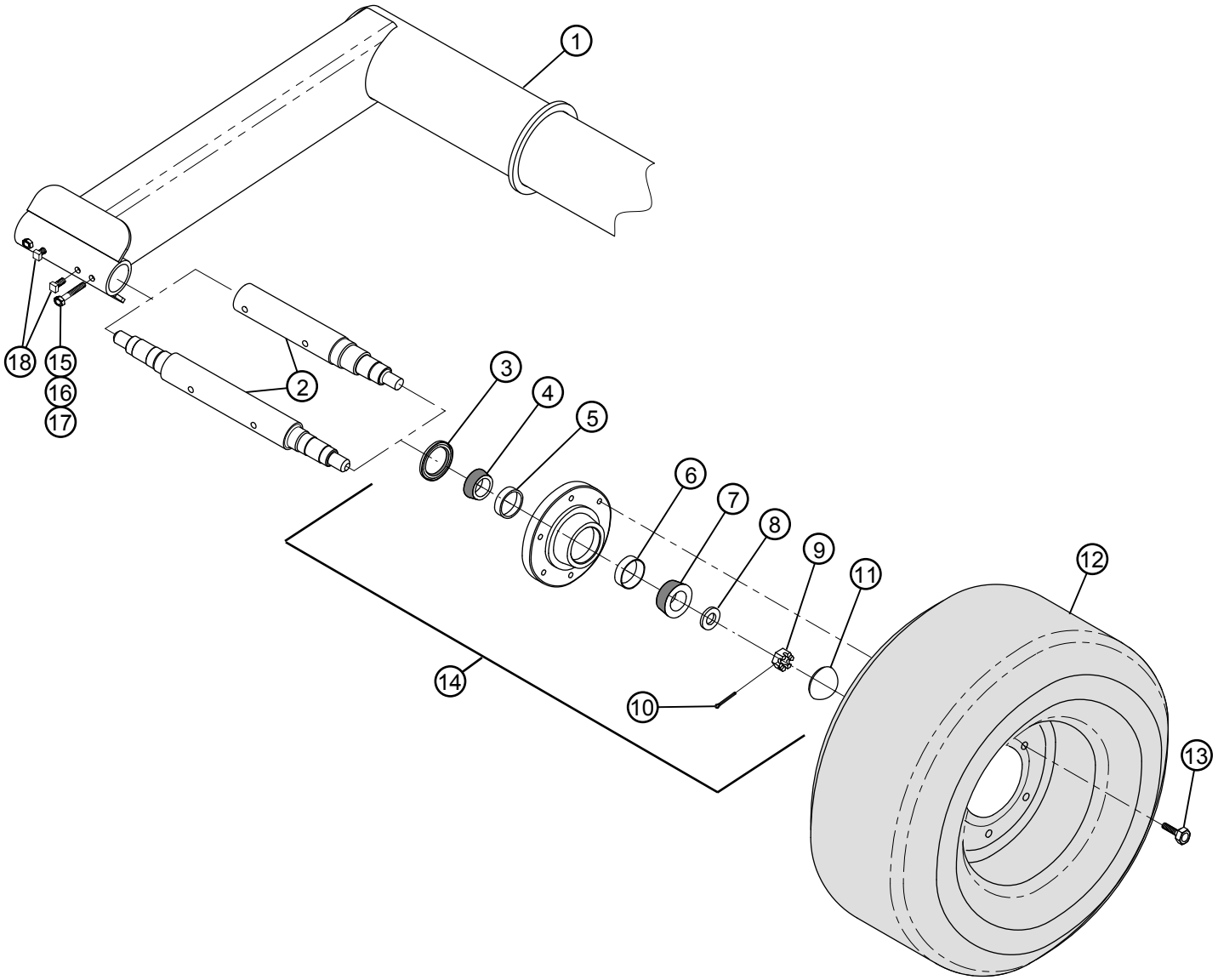


Item	Part Number	Description	Q'ty
1	SLL1351	Bearing Cradle 1"	4
2	SLL1350	1" Bearing Cap	8
3	UBNC16122R	1" NC Bearing U-Bolt	4
4	HXNUT-16NC	1" NC Hex Nut	8
5	LWASHER-16	1" Lock Washer	8
	SLL1352	U-Bolt Assembly (includes items 3, 4, 5)	
	SLL1353	Wheel Bearing Assembly (includes items 1-5)	

Note: Ensure equal amount of space on each side before tightening U-bolts.

Ensure equal number of threads on each side of U-Bolt.

TPP3530 Wheel Hub Bearing Assembly

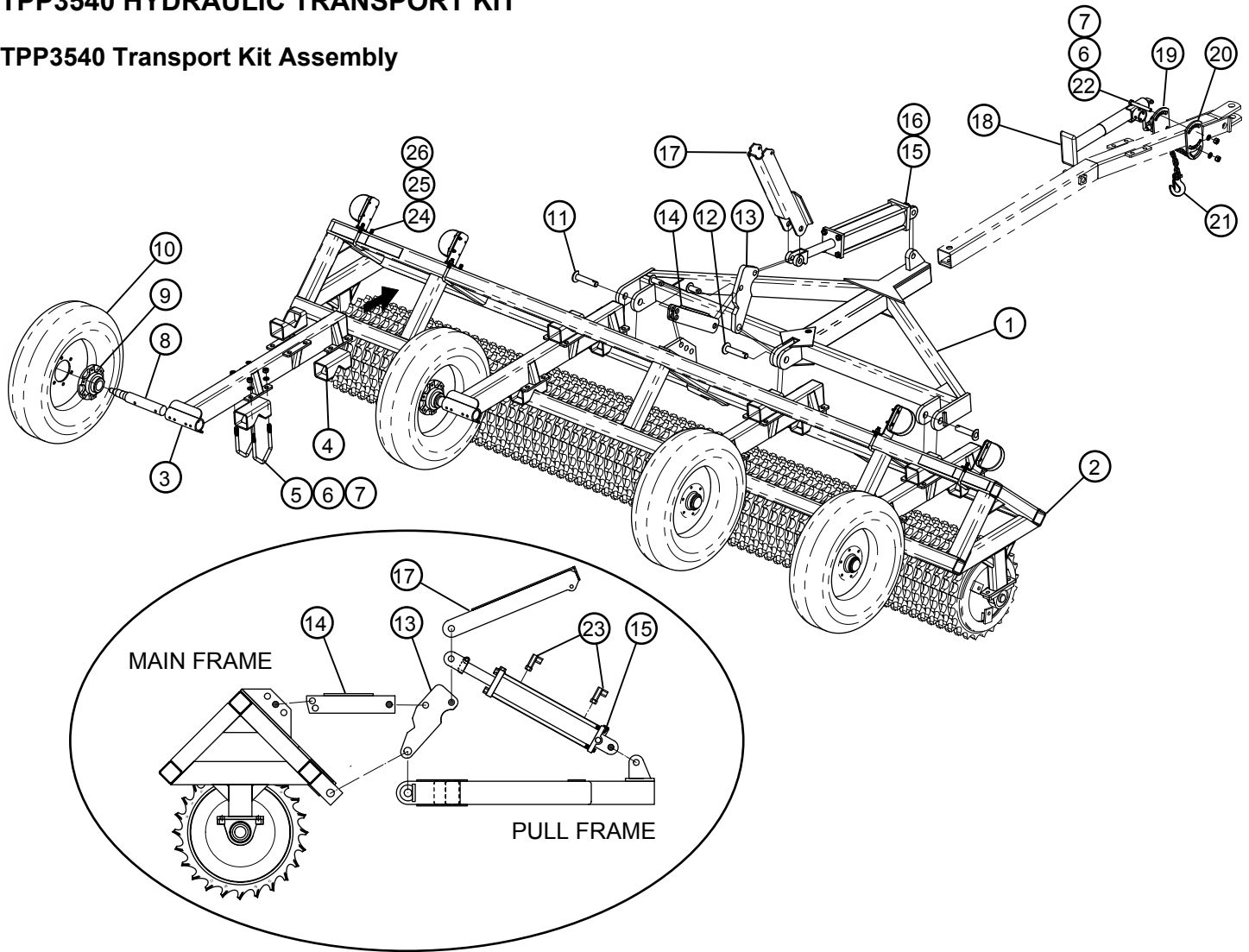


Item	Part Number	Description	Q'ty
1	HT3-00C000	Wheel Axle	1
2	HT3-00C200 TBU-01G016	2" X 14" Single Ended Spindle 2" X 20" Double Ended Spindle	2
3	GHB-6X6GSL	Grease Seal CR16289	4
4	GHB-6X6ICN	Inner Bearing Cone	4
5	GHB-6X6IRC	Inner Bearing Cup	4
6	GHB-6X6ORC	Outer Bearing Cup	4
7	GHB-6X6OCN	Outer Bearing Cone	4
8	FWASHER-14	Spindle Washer	4
9	GSP-14CANT	Spindle Castle Nut	4

Item	Part Number	Description	Q'ty
10	GPN-03X32C	3/16" X 2" Cotter Pin	4
11	GHB-6X6CAP	Hub Cap	4
12	GWT-156LBH GWT-761508	15 X 6 Wheel 7.60 X 15 8 Ply Tire with Wheel (Optional)	4
13	WHB-08X016	Wheel Bolts for 6 on 6 Hub	24
14	GHB-6X6STD	Standard 6 x 6 Hub Assembly Complete (includes items 3, 4, 5, 6, 7, 11, and 13)	4
15	CSNC507056	7/16" X 3-1/2" Gr.5 NC Cap Screw	4
16	LWASHER-07	7/16" Lock Washer	4
17	HXNUT-07NC	7/16" NC Hex Nut	4
18	SSNCS08X16	1/2" X 1" NC Square Head Set Screw	4

TPP3540 HYDRAULIC TRANSPORT KIT

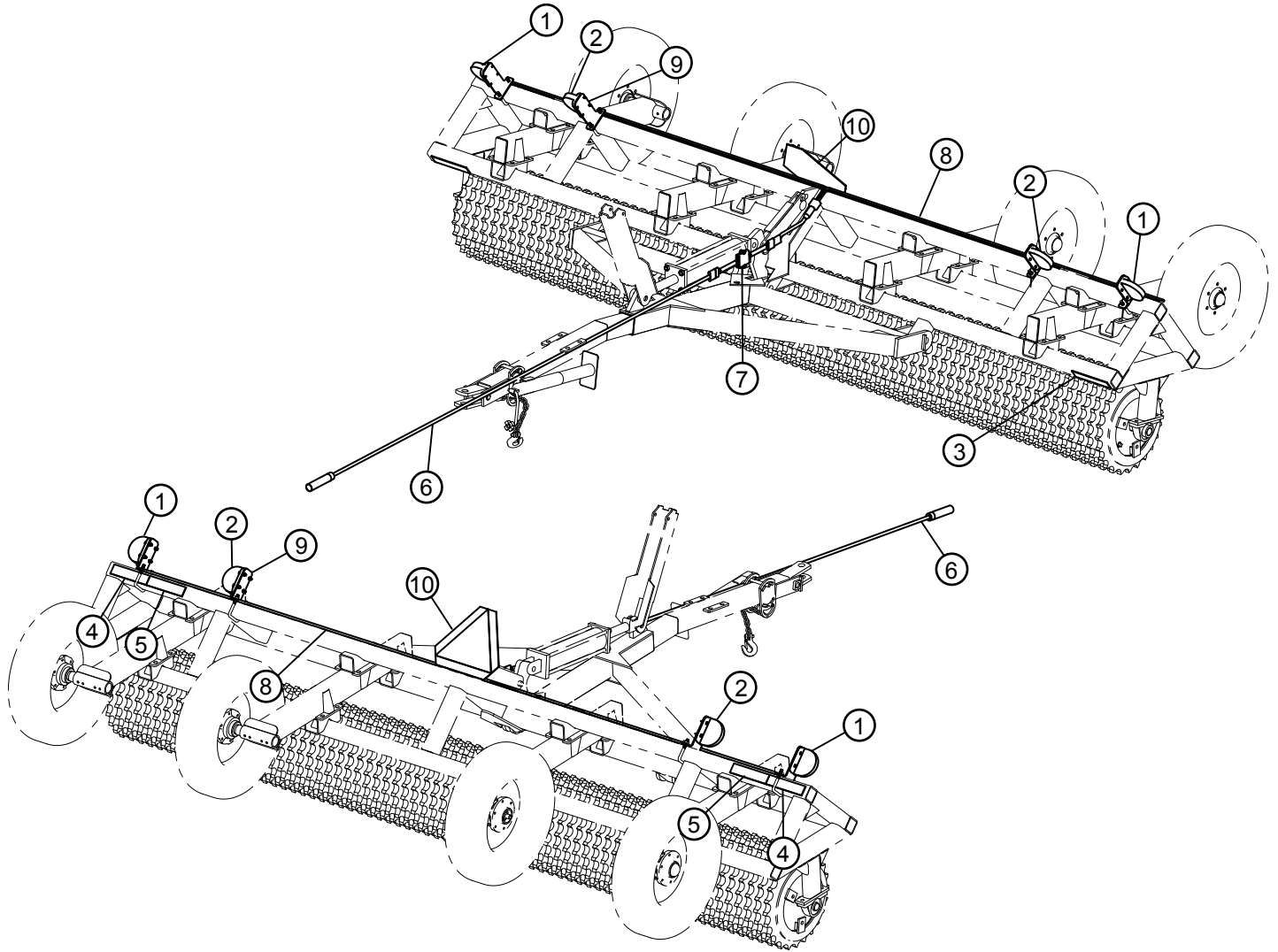
TPP3540 Transport Kit Assembly



Item	Part Number	Description	Q'ty
1	HT4-00A100	Pull Frame 1-Cylinder	1
	HT4-00A200	Pull Frame 2-Cylinders	
2	HT4-00B100	Main Frame 1-Cylinder	1
	HT4-00B200	Main Frame 2-Cylinders	
3	HT4-00D000	Wheel Leg	4
4	HT4-00D006	Wheel Leg Spacer	12
5	UBNC10X66T	5/8" Tri Bend U-Bolt	24
6	LWASHER-10	5/8" Lock Washer	48
7	HXNUT-10NC	5/8" NC Hex Nut	48
8	HT3-00C200	2" X 14" Single Removable Spindle	4
	TBU-01G016	2" x 20" Double Remov. Spindle (Option)	
9	GHB-6X6STD	6" X 6" Standard Wheel Hub	4 or 8
10	GWT-156LBH	15" X 6" Wheel (see p.36 for Hub Ass'y)	4 or 8
	GWT-761508	7.6" X 15" Tire with Wheel (Optional)	
11	HT4-00A008	Pull Frame Pin	2

Item	Part Number	Description	Q'ty
12	GPN-20CA03	1-1/4" X 5-1/2" Pin	1 or 2
13	HT4-00C003	Hydraulic Cylinder Linkage Pivot Plate	1 or 2
14	HT4-00C000	Hydraulic Cylinder Linkage	1 or 2
15	GHC-40160T	4" X 16" Tie Rod Hydraulic Cylinder	1 or 2
16	PMCK-34000	Seal Kit for 4" X 16" Hydraulic Cylinder	1 or 2
17	GWD-416LB1	Lockout Bar for 4" X 16" Hyd. Cylinder	1 or 2
18	GJK-2KTW10	Jack Stand 2000# Cap. TW	1
19	GWD-COLLAR	Jack Stand Collar Detachable	1
20	GPR-L03816	Jack Stand Collar Mount Plate	1
21	GMB-CH05CH	Safety Chain with Hook - Gr.70	1
22	CSNC510088	5/8" X 5-1/2" NC Gr.5 Cap Screw	2
23	FMBMJ9088	1/2" MB-MJ Elbow	2 or 4
24	UBNC08049S	1/2" NC Square U-Bolt	4
25	LWASHER-08	1/2" Lock Washer	8
26	HXNUT-08NC	1/2" NC Hex Nut	8

TPP3540 Safety Marking and Lighting



Item	Part Number	Description	Q'ty
1	GLT-LSDY	Lamp, Surface Mount Double Yellow	2
2	GLT-LSSR	Lamp, Surface Mount Single Red	2
3	D-2X9RY	Reflective Tape, Yellow	2
4	D-2X9RR	Reflective Tape, Red	2 or 4
5	D-2X9RO	Reflective Tape, Orange	2 or 4
6	GLT-HF15	Front Harness, 15 Ft. Long	1
7	GLT-FCM	Flasher Control Module	1
8	GLT-HW1024	Rear Wishbone Harness 10 Ft.-24 Ft.	1
9	GPR-L01804	Light Bracket Bolt-On	4
10	GMB-SMVSN	Slow Moving Vehicle Sign	1

TPP3540 Transport Kit Assembly Instructions



WARNING

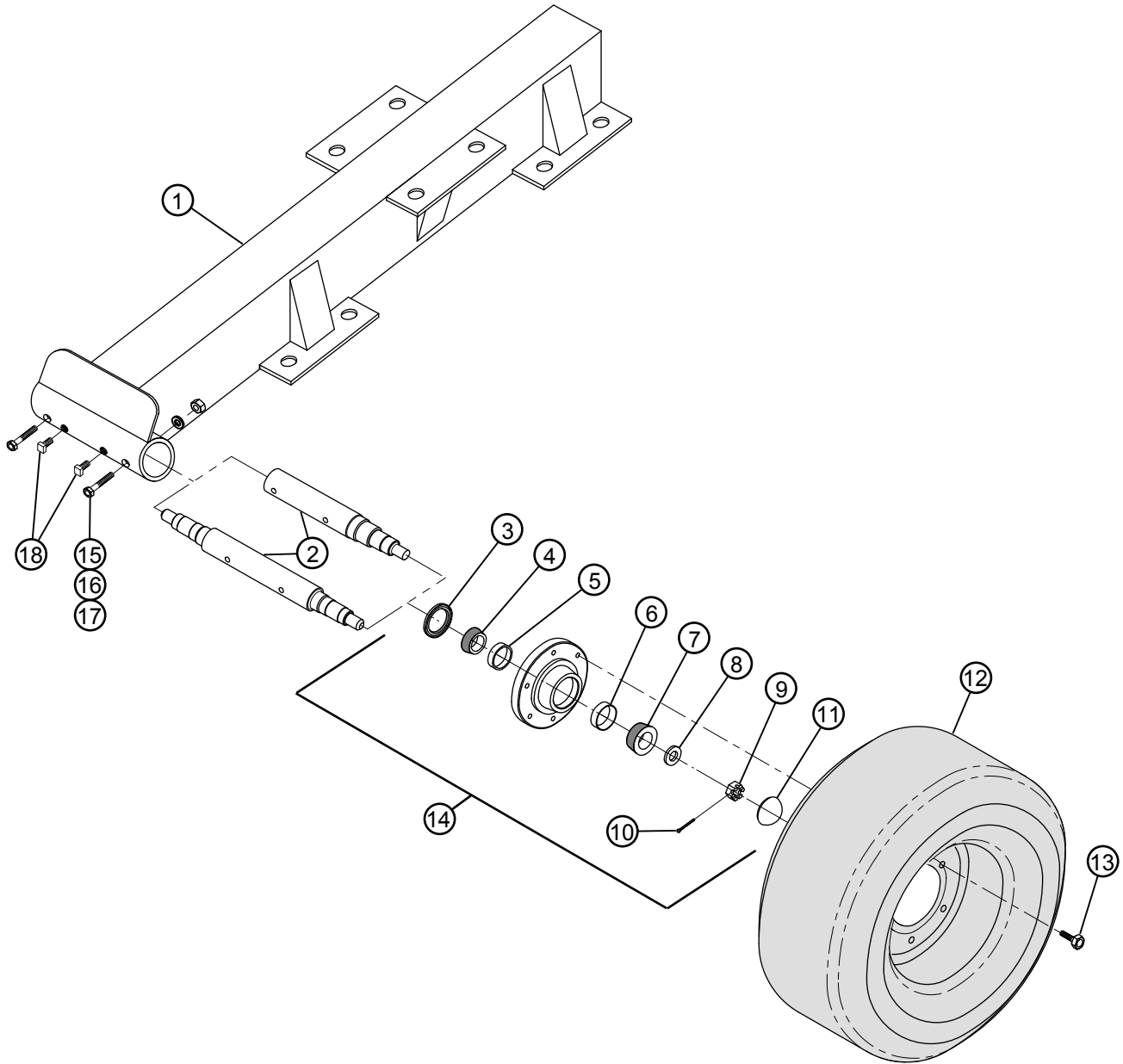


Understand Safety Procedures!

Read and understand all safety procedures described in this manual before performing any work on or around the implement.

1. Lay Till An' Pak Roller on ground. Position Main Frame over Roller and bolt frame to Pillow Block Bearings.
 - Use (4) 1/2" x 2-1/4" Gr.5 NC Bolts (14 ft. to 18 ft. units) or 5/8" x 2-1/2" Gr.5 NC bolts (19 ft. & up units.)
2. Position Wheel Leg between the bottom cross bars and top cross bar with wheel facing outward (saddle mounting plates on bottom of wheel axle should face downward.)
3. Place saddle pads under wheel legs on two bottom cross bars (see drawing on page 33).
4. Position Wheel Leg to desired distance from side end of unit (spacing of wheel is based upon customer's needs.)
5. Position third saddle between top cross bar and Wheel Leg. Tilt Wheel Leg and place into position (use of a mallet hammer may be necessary.)
6. Fasten Wheel Leg with two Tri-Bend U-Bolts on each mount. Same procedure is required for center Wheel Leg (wheels face inward, opposite direction of end wheels.)
7. Mount tires to Wheel Legs and tighten (Tires are optional).
8. Fasten outer set of ears of Pull Frame to the Main Frame (1-1/4" x 5-1/2" yellow Pin and 1/4" Cotter Pin.) After fastening be sure to grease both zerk holes (see Assembly drawing on page 33.)
9. Position Pivot Plate between Main Frame center ears and fasten with 1-1/4" x 5-1/2" yellow Clevis Pin (refer to the drawing on page 33 for proper positioning).
10. Slide Pull Frame in front of Main Frame. Position 1-1/8" x 6-1/2" Tongue Pin in Pull Frame tongue hole.
11. Position Hydraulic Cylinder with rod facing towards rear of unit. Align holes with Pivot Plate and lockout bar (elevation of Pull Frame may be necessary.)
 - Use 1" x 4-1/2" Red Clevis Pin with 1/4" Lynch Pn.
12. Remove plugs from cylinder before extending.
13. Thread in place (2) 90-degree adapters into cylinder.
14. Check tightness of all bolts and make sure all pins are in place.

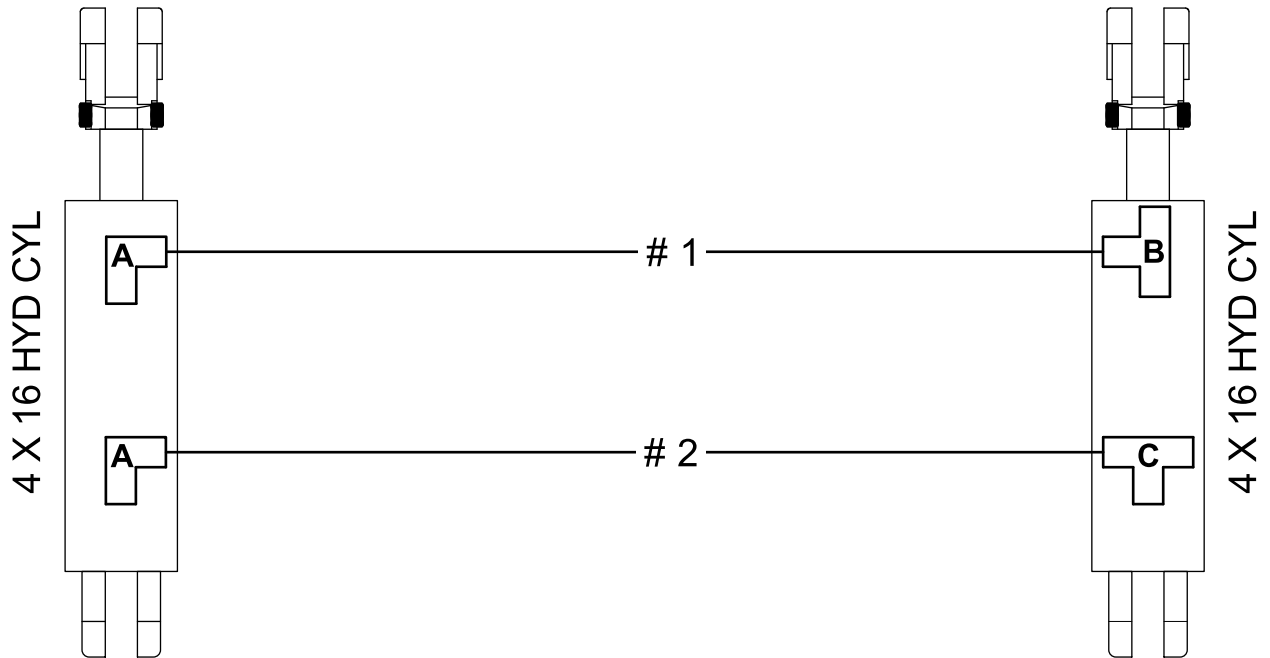
TPP3540 Wheel Leg Hub Assembly



Item	Part Number	Description	Q'ty
1	HT4-00D000	Wheel Leg	4
2	HT3-00C200 TBU-01G016	2" X 14" Single Ended Spindle 2" X 20" Double Ended Spindle	4
3	GHB-6X6GSL	Grease Seal CR16289	4 or 8
4	GHB-6X6ICN	Inner Bearing Cone	4 or 8
5	GHB-6X6IRC	Inner Bearing Cup	4 or 8
6	GHB-6X6ORC	Outer Bearing Cup	4 or 8
7	GHB-6X6OCN	Outer Bearing Cone	4 or 8
8	FWASHER-14	Spindle Washer	4 or 8
9	GSP-14CANT	Spindle Castle Nut	4 or 8

Item	Part Number	Description	Q'ty
10	GPN-03X32C	3/16" X 2" Cotter Pin	4 or 8
11	GHB-6X6CAP	Hub Cap	4 or 8
12	GWT-156LBH GWT-761508	15 X 6 Wheel 7.60 X 15 8 Ply Tire with Wheel (Optional)	4 or 8
13	WHB-08X016	Wheel Bolts for 6 on 6 Hub	24 or 48
14	GHB-6X6STD	Standard 6 x 6 Hub Assembly Complete (includes items 3, 4, 5, 6, 7, 11, and 13)	4 or 8
15	CSNC507056	7/16" X 3-1/2" Gr.5 NC Cap Screw	8
16	LWASHER-07	7/16" Lock Washer	8
17	HXNUT-07NC	7/16" NC Hex Nut	8
18	SSNCS08X16	1/2" X 1" NC Square Head Set Screw	8

TPP3540 Transport Kit Hydraulic Diagram

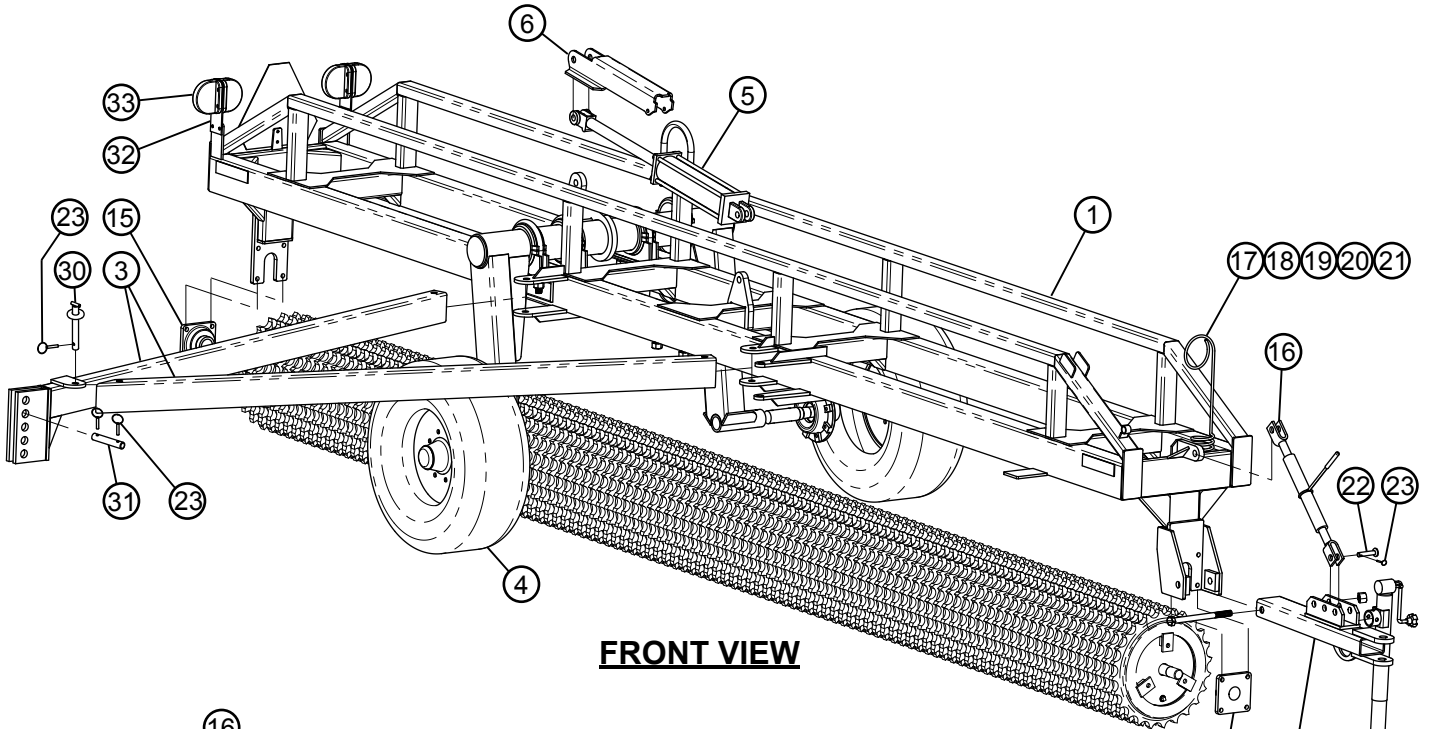


Item	Part Number	Description	Qty.
Hydraulic Cylinders			
	GHC-40160T	4" x 16" Tie Rod Cyl.	1
Fittings			
A	FMBMJ9088	8MB-8MJ 90° Elbow	2
B	FMJMBMJT08	8MJ-8MB-8MB Tee	1
C	FMJMJMBT08	8MJ-8MJ-8MB Tee	1
Hoses			
#1	8FJX-8FJX 27" Long		1
#2	8FJX-8FJX 19" Long		1

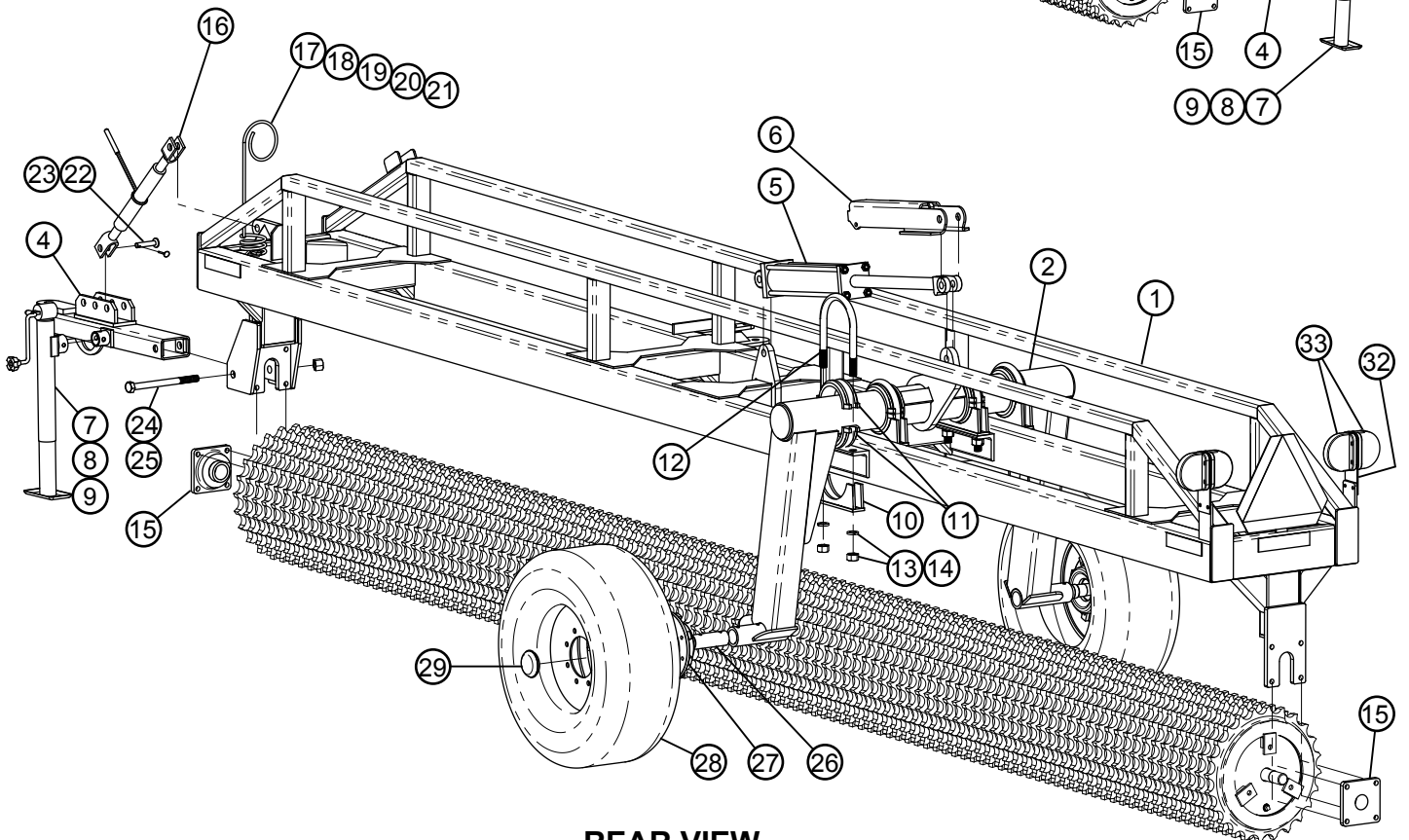
* NOTE: Lead Hoses are optional.

TPP3550 HYDRAULIC TRANSPORT KIT - STRADDLE AXLE

TPP3550 Transport Kit Assembly



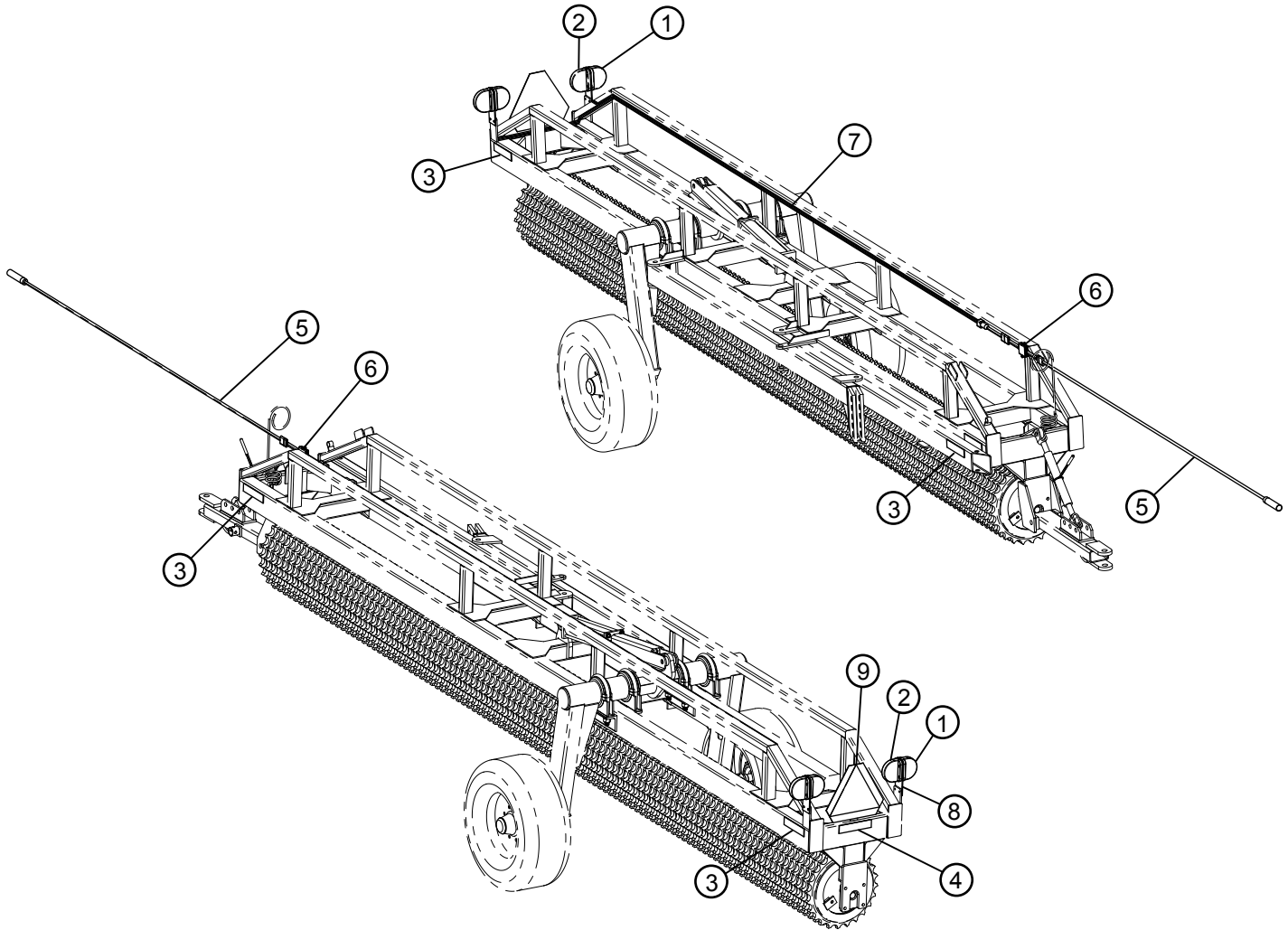
FRONT VIEW



REAR VIEW

Item	Part Number	Description	Q'ty
1	TSA-00A000	Straddle Axle Main Frame (specify size)	1
2	TSA-00C200	Wheel Axle XHVY with Removable Spindle	1
3	TSA-00D000	Pull Frame Assembly (Field Operation)	1
4	TSA-00E000	Transport Tongue	1
5	GHC-40160T	4" X 16" Tie Rod Hydraulic Cylinder	1
6	GWD-416LB1	Lockout Bar for 4" X 16" Hyd. Cylinder	1
7	GJK-5KSW00	Jack Stand 5,000 # Capacity, Side Winding 15 in.	1
8	GMB-CH5CH	5/16" Safety Chain with Hook Gr.70	1
9	GMB-CH05CL	5/16" Clevis Link, Gr.70	1
10	SLL1351	Bearing Cradle, 1"	4
11	SLL1350	Bearing Cap, 1"	8
12	UBNF14128S	7/8" NF Round U-Bolt	4
13	LWASHER-14	7/8" Lock Washer	8
14	HXNUT-14NF	7/8" NF Hex Nut	8
15	TPP3158	2-3/16" Flange Bearing	2
16	GJK-RATCHJHD	Ratchet Jack ACME Thread HD	1
17	91798A	Hose Holder, Short	1
18	CSNC508024	1/2" X 1-1/2" NC Gr.5 Cap Screw	1
19	FWASHER-08	1/2" Flat Washer	1
20	LWASHER-08	1/2" Lock Washer	1
21	HXNUT-08NC	1/2" NC Hex Nut	1
22	GPN-16X048	1" X 3" Standard Clevis Pin	2
23	GPN-040LYN	1/4" Lynch Pin	4
24	CSNC816144	1" X 9" Gr.8 NC Cap Screw	1
25	NYNUT-16NC	1" NC Nylon Lock Hex Nut	1
26	SFS-00B307	2-1/8" X 15-1/2" Removable Spindle	2
27	GHB-8X8HVY	8 on 8" Heavy Hub	2
28	GWT-121614	12.5 X 16 14 Ply Tire with Wheel Assembly	2
29	GHB-8X8CAP	8 on 8" Hub Cap	2
30	GPN-16112L	1" X 7" General Lock Pin	1
31	TSA-00F003	Straddle Axle Tongue Pin	1
32	GPR-L01802	Light Bracket	2
33	-----	Safety Lights (see p. 40 for all part numbers)	4

TPP3550 Safety Marking and Lighting



Item	Part Number	Description	Q'ty
1	GLT-LSDY	Lamp, Surface Mount Double Yellow	2
2	GLT-LSSR	Lamp, Surface Mount Single Red	2
3	D-2X9RY	Reflective Tape, Yellow	4
4	D-2X9RR	Reflective Tape, Red	1
5	GLT-HF07	Front Harness, 7 Ft. Long	1
6	GLT-FCM	Flasher Control Module	1
7	GLT-HW5050	Rear Wishbone Harness 50 Ft.-50 Ft.	1
8	GPR-L01802	Light Bracket Bolt-On	2
9	GMB-SMVSN	Slow Moving Vehicle Sign	1

TPP3550 Transport Kit Assembly Instructions

WARNING



Understand Safety Procedures!

Read and understand all safety procedures described in this manual before performing any work on or around the implement.

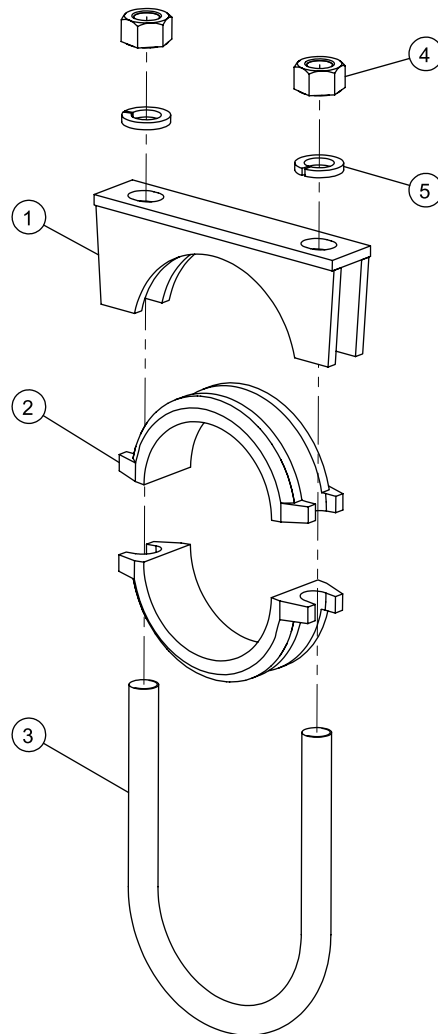
1. Lay Till An' Pak Roller on ground. Install flange bearings on ring roller shafts.
2. Position Main Frame over Roller and bolt frame and roller to flange bearings.
 - Use (4) 5/8" x 2-1/2" Gr.5 NC bolts with lock washers and hex nuts.
3. Install Wheel Axle to Main Frame. Tighten wheel axle bearings onto main frame bearing mounts.
 - Use 1" Round U-bolts with lock washers and hex nuts.
4. Install tire and wheel assemblies onto hubs on the wheel axle. Refer to page 42 for details.
5. Mount Pull Frame large brace (with clevis attached) to the main frame, then mount secondary brace to the main frame.
 - Use 1" x 8" Gr.5 NC bolts with nylon lock nuts.

Connect to each other for field use with lock pin. See drawing on page 38 for reference.

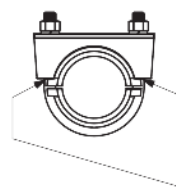
For transport, remove lock pin and swing both braces forward onto storage plate and secure with same lock pin.

6. Install transport tongue. Fasten with 1" x 9" Gr.8 NC bolt and 1" nylon lock hex nut.
7. Install Ratchet.
 - Use 1" x 3" standard clevis pin with lynch pin on tongue side and cylinder pin with cotter pins on main frame side.
8. Mount 4" x 16" Hydraulic cylinder to Main Frame and then to Wheel Axle. Install Lockout Bar. Refer to assembly drawing on page 38 for details.
9. Install Jack Stand to transport tongue.

TPP3550 Wheel Axle Bearing Assembly



Item	Part Number	Description	Q'ty
1	SLL1351	Bearing Cradle 1"	4
2	SLL1350	1" Bearing Cap	8
3	UBNC16122R	1" NC Bearing U-Bolt	4
4	HXNUT-16NC	1" NC Hex Nut	8
5	LWASHER-16	1" Lock Washer	8
	SLL1352	U-Bolt Assembly (includes items 3, 4, 5)	
	SLL1353	Wheel Bearing Assembly (includes items 1-5)	

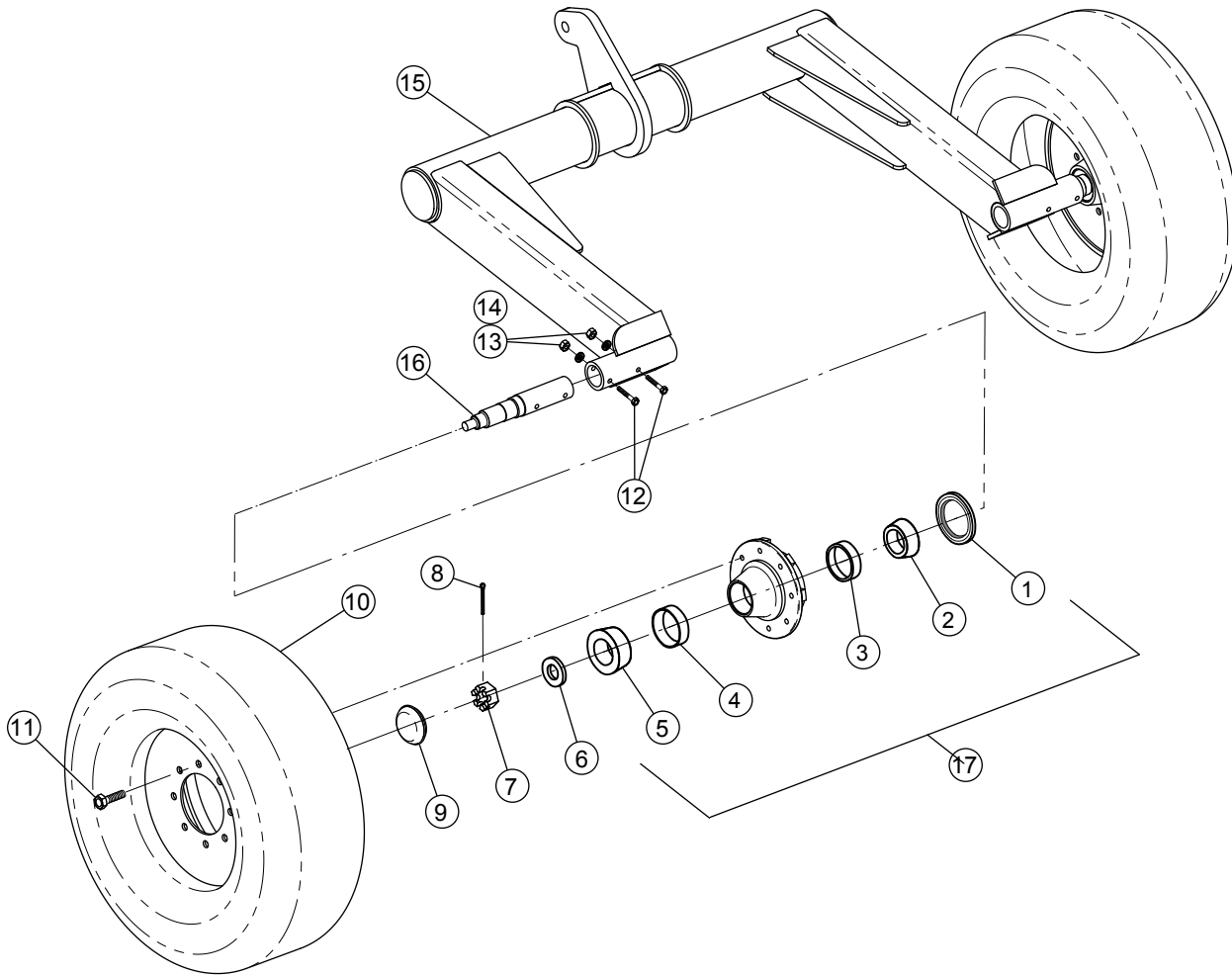


SEE NOTE

Note: Ensure equal amount of space on each side before tightening U-bolts.

Ensure equal number of threads on each side of U-Bolt.

TPP3550 Wheel Axle and Hub Assembly



Item	Part Number	Description	Q'ty
1	GHB-8X8GSL	Oil Seal for 8 on 8 Heavy Hub	2
2	GHB-8X8ICN	Inner Bearing Cone	2
3	GHB-8X8IRC	Inner Bearing Race	2
4	GHB-8X8ORC	Outer Bearing Race	2
5	GHB-8X8OCN	Outer Bearing Cone	2
6	GSP-14SPWA	7/8" Spindle Flat Washer	2
7	GSP-14CANT	7/8" Spindle Castle Nut	2
8	GPN-04X28C	1/4" X 1-3/4" Cotter Pin	2
9	GHB-8X8CAP	Dust Cap for 8 on 8 Heavy Hub	2
10	GWT-121614	12.5 X 16 14 Ply Tire with Wheel	2
11	WHB-09X018	Wheel Bolts for 8 on 8 Heavy Hub	16
12	CSNC507056	7/16" X 3-1/2" Gr.5 NC Cap Screw	4
13	HXNUT-07NC	7/16" NC Hex Nut	4
14	LWASHER-07	7/16" Lock Washer	4
15	TSA-00C200	Straddle Axle Wheel Axle	1
16	SFS-00B307	2-1/8" X 15-1/2" Removable Single Spindle	2
17	GHB-8X8HVY	Hub, 8 on 8 Heavy, Complete (includes Items 1-5, and 9)	2



LIMITED WARRANTY STATEMENT

T.G. Schmeiser Co., Inc.

P.O. Box 1392 – Selma, CA 93662
Phone (559) 268-8128 Fax (559) 268-3279

T. G. Schmeiser Co., Inc. warrants each new Schmeiser® product to be free from defects in material and workmanship. This warranty is applicable only for the normal service life expectancy of the product or components, not to exceed twelve (12) consecutive months from the date of delivery of the new Schmeiser product to the original purchaser.

Genuine T. G. Schmeiser Co., Inc. replacement parts and components will be warranted for 90 days from date of purchase, or the remainder of the original equipment warranty period, whichever is longer.

Under no circumstances will it cover any merchandise or components thereof, which, in the opinion of the company, has been subjected to misuse, unauthorized modifications, alteration, an accident or if repairs have been made with parts other than those obtainable through T. G. Schmeiser Co., Inc.

The Company in no way warrants engines, batteries, cylinders, tires or other trade accessories since these items are warranted separately by their respective manufacturer. Expendable components such as points, shanks, blades, rings, bearings, teeth, and the like are excluded from this warranty.

Our obligation under this warranty shall be limited to repairing or replacing, free of charge to the original purchaser, any part that, in our judgment, shall show evidence of such defect, provided further that such part shall be returned within thirty (30) days from date of failure to T. G. Schmeiser Co., Inc., routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid.

This warranty shall not be interpreted to render T. G. Schmeiser Co., Inc. liable for injury or damages of any kind or nature to person or property. This warranty does not extend to the loss of crops, loss because of delay in harvesting, or any expense or loss incurred for labor, substitute machinery, rental or for any other reason.

Except as set forth above, **T. G. Schmeiser Co., Inc. shall have no obligation or liability of any kind on account of any of its equipment and shall not be liable for special or consequential damages. T. G. Schmeiser Co., Inc. makes no other warranty, expressed or implied, and, specifically, T. G. Schmeiser Co., Inc. disclaims any implied warranty or merchantability or fitness for a particular purpose. Some states or provinces do not permit limitations or exclusions of implied warranties or incidental or consequential damages, so the limitations or exclusion in this warranty may not apply.**

This warranty is subject to any existing conditions of supply, which may directly affect our ability to obtain materials or manufacture replacement parts.

T. G. Schmeiser Co., Inc. reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligation to owners of units previously sold.

No one is authorized to alter, modify or enlarge this warranty nor the exclusion, limitations and reservations.

**WARRANTY VOID IF NOT REGISTERED
WITHIN 30 DAYS OF PURCHASE DATE**



**P.O. Box 1392
Selma, CA 93662
(559) 268-8128
WEB: www.TGSchmeiser.com**

