

# SCHMEISER BANTAM LEVELER



**T. G. SCHMEISER Co., Inc.**

## **OPERATION AND PARTS MANUAL**

**Version 3.0  
August 2019**

*Read and understand the manual. This manual provides information and procedures to safely operate and maintain the Bantam Leveler.*







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### INTRODUCTION

Your Schmeiser Bantam Leveler is designed to provide many years of dependable service. 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

Our products are engineered to work in conjunction with other farm implements. This helps save time and money when attached behind a plow or disc, seeder, fertilizer spreader, or fumigator.

### 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.

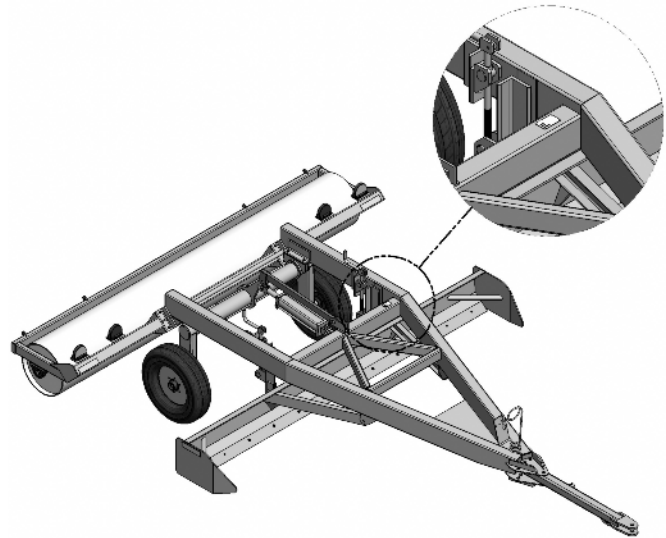
Thank you for buying a Schmeiser Bantam Leveler.

### Dealer Contact Information

For replacement decals, questions, or to order parts,



### Serial Number Location



Serial No. \_\_\_\_\_

Model No. \_\_\_\_\_

Purchase Date \_\_\_\_\_

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

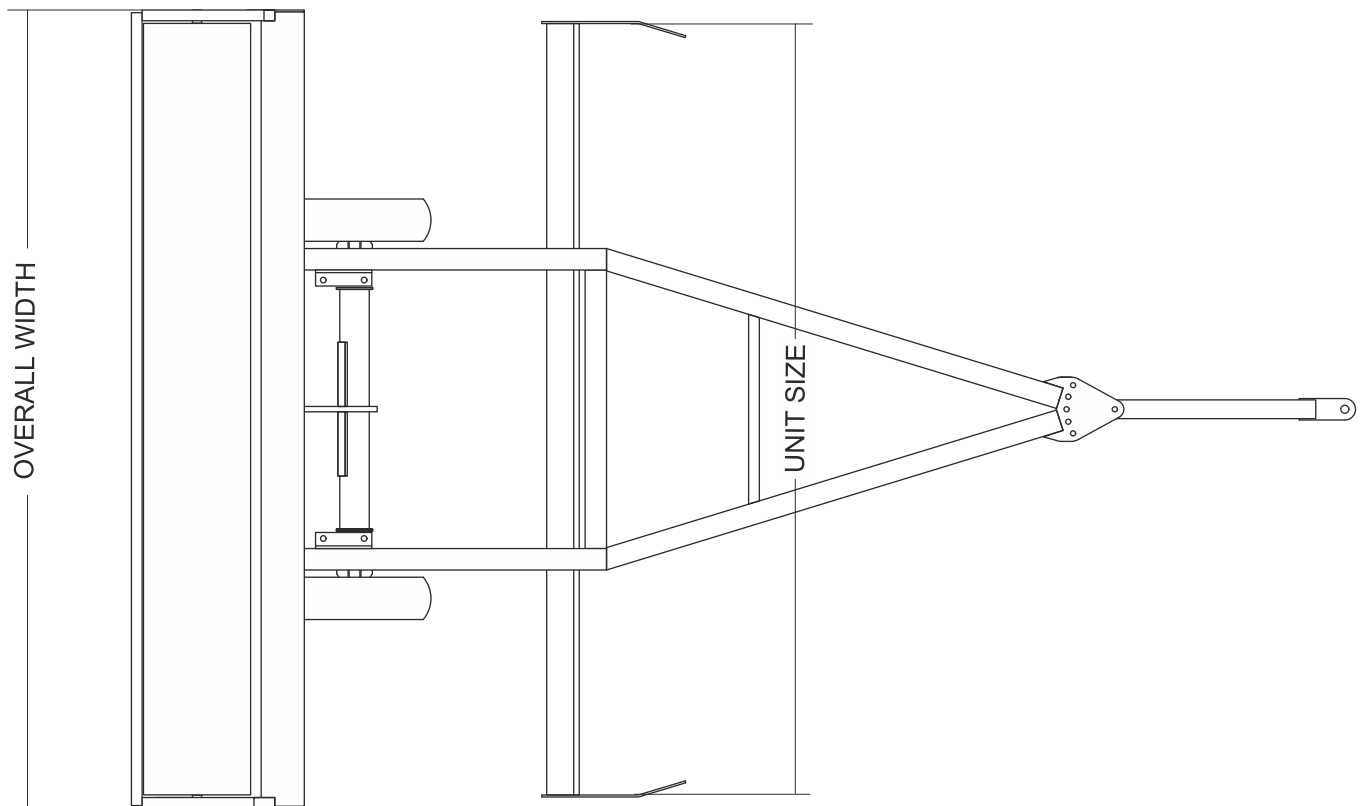
Phone: (559) 268-8128  
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Additional copies of this manual can also be downloaded at [www.tgschmeiser.com](http://www.tgschmeiser.com).



**SPECIFICATIONS**

Model	Overall Width	Dry Weight	Weight w/Water	Approx HP
BOL 080	8'6" (2.6 m)	2410 lbs (1093 kg)	3460 lbs (1569 kg)	40-50
BOL 090	9'6" (2.9 m)	2520 lbs (1143 kg)	3700 lbs (1678 kg)	45-55
BOL 100	10'6" (3.2 m)	2630 lbs (1193 kg)	3940 lbs (1787 kg)	50-60
BOL 110	11'6" (3.5 m)	2740 lbs (1243 kg)	4180 lbs (1896 kg)	55-65
BOL 120	12'6" (3.8 m)	2850 lbs (1293 kg)	4420 lbs (2005 kg)	60-70
BOL 130	13'6" (4.1 m)	2960 lbs (1343 kg)	4660 lbs (2114 kg)	65-75
BOL 140	14'6" (4.4 m)	3070 lbs (1392 kg)	4900 lbs (2223 kg)	70-80
BOL 150	15'6" (4.7 m)	3180 lbs (1442 kg)	5140 lbs (2331 kg)	75-90
BOL 160	16'6" (5.00 m)	3290 lbs (1492 kg)	5380 lbs (2440 kg)	90-105



## SAFETY

The safe operation of any implement is an important concern to farmers and manufacturers. Safety of the operator and bystanders is one of the main concerns in designing and developing a new implement. There are obvious and hidden potential hazards involved in the operation of this implement. Carefully read and follow all safety precautions before operation. 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.

### **WARNING**



**Do not use or transport the unit until you read and understand the information contained in this manual.**



**Safety precautions and warnings are provided in this manual and on the unit. If these hazard warnings are not heeded, bodily injury or death could occur to you or to other persons.**

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 the hitch and implement during hook-up operations.



### Hydraulic Pressure

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



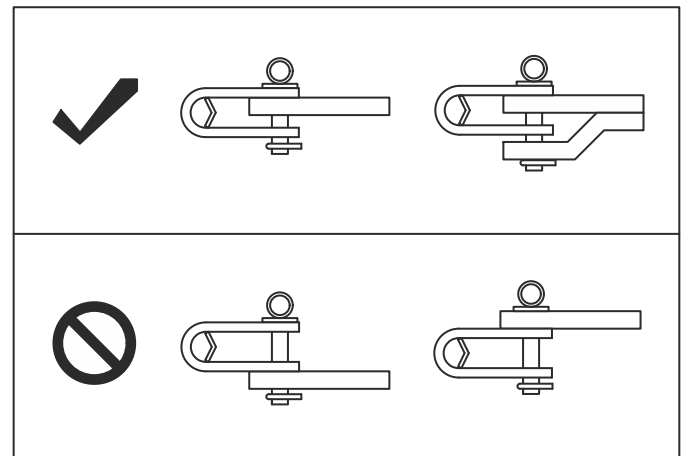
### Unexpected Separation Hazard

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.



**High-Pressure Separation Hazard**  
Replace any worn, cut, abraded, flattened, or crimped hoses.



## 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.

### 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.

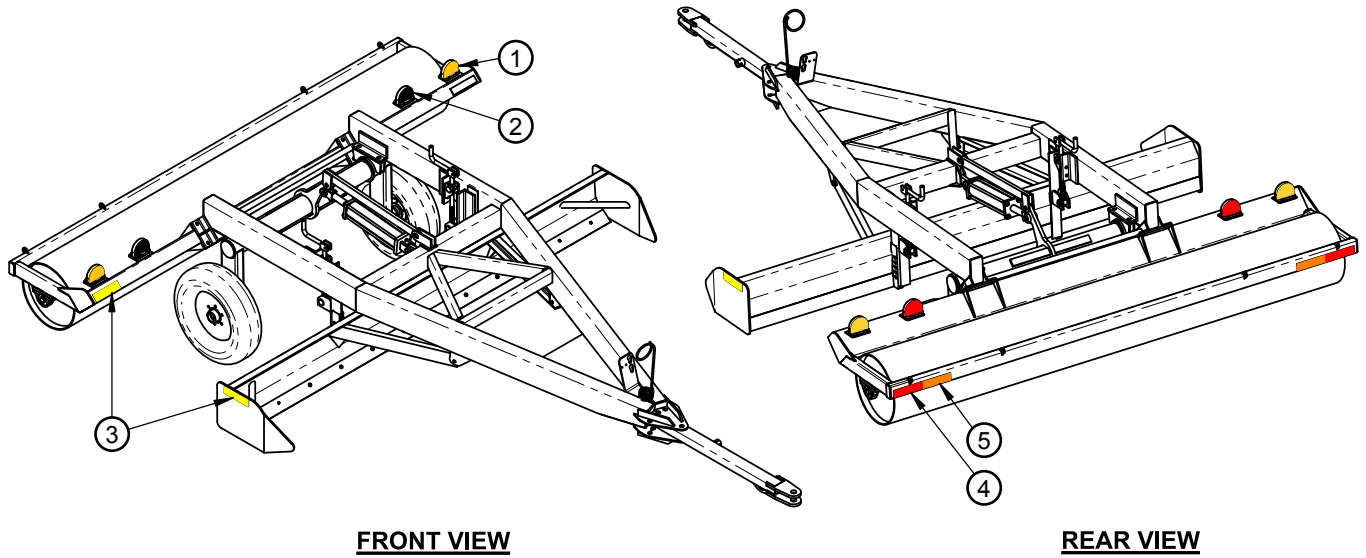


When using compressed air to clean implement, wear safety glasses.

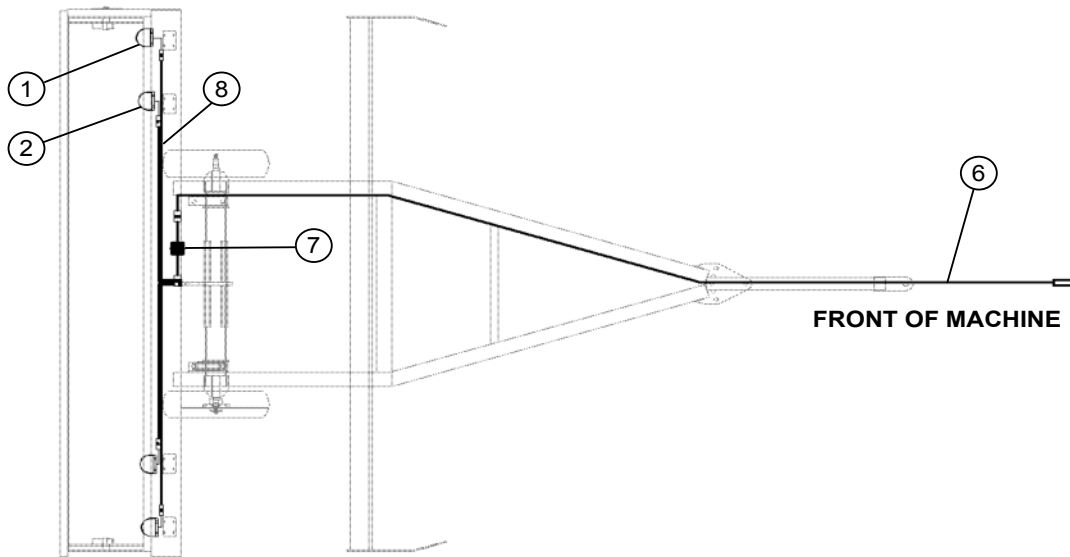
## DISPOSAL OF EQUIPMENT AT END OF USEFUL LIFE

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 MARKING AND LIGHTING

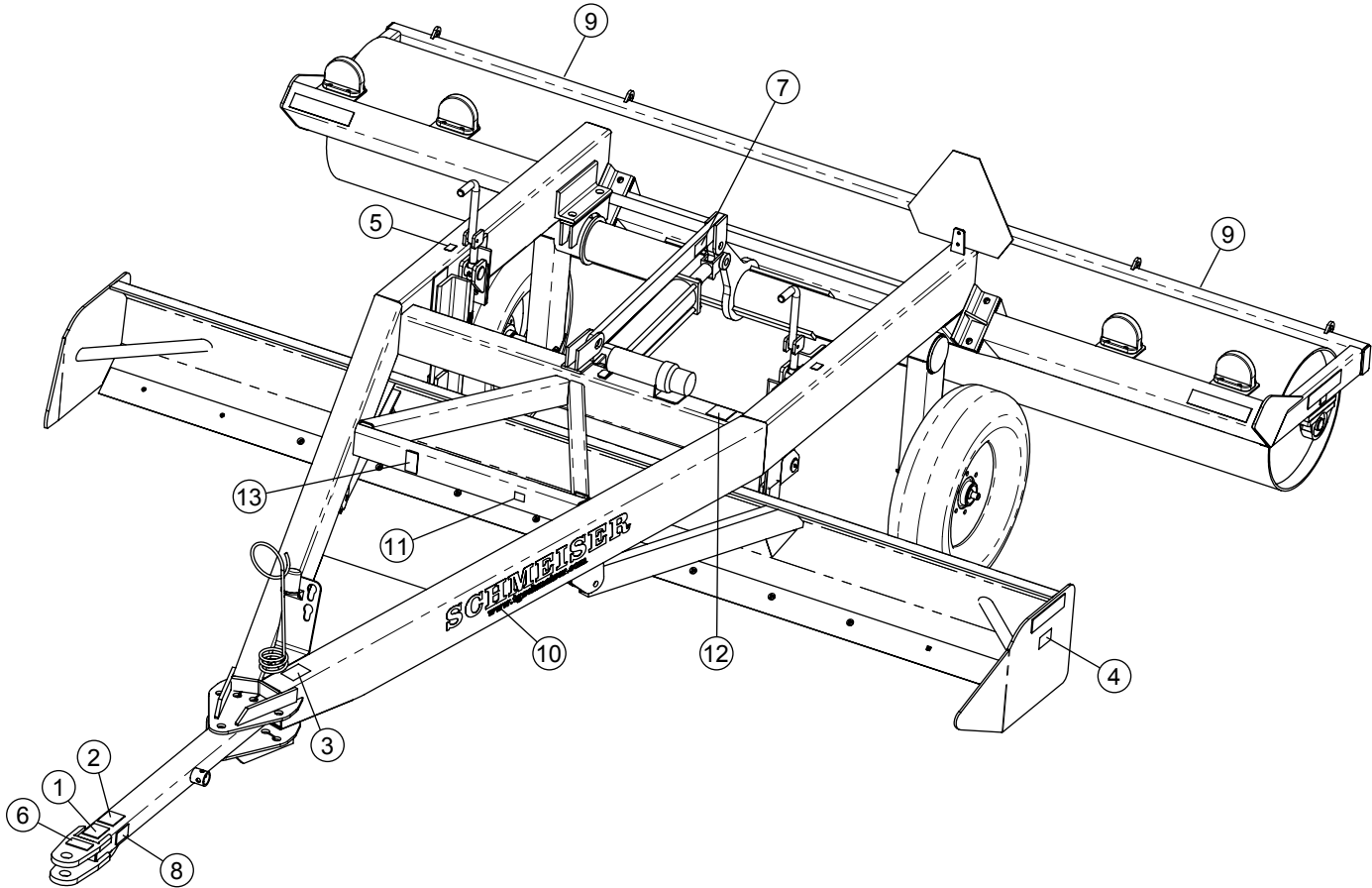


### SAFETY LIGHTING WIRING DIAGRAM



Item No	Part No	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	2
5	D-2X9FL	Fluorescent Tape, Orange	2
6	GLT-HF25	Front Harness, 25 Ft. Long	1
7	GLT-FCM	Flasher Control Module	1
8	GLT-HW1024	Rear Wishbone Harness 10 Ft.-24 Ft.	1

## SAFETY SIGN PLACEMENT



Item No	Part No	Description	Q'ty
1	D48X038RTM	Read the Manual	1
2	D48X038CRR	Crush / Rollover Hazard	1
3	D48X064HPF	High Pressure Fluids	1
4	D28X048SCE	Sharp Object Hazard	1
5	D16X026GRS	Grease Decal	4
6	D28X048PPT	Pinch Point	1
7	D28X048RBW	Transport Lockout	1
8	D76X040SGB	Transport Safety Chain	1
9	D32X208TGS	Schmeiser 2" X 13"	4
10	D104608BLK	Schmeiser 6-1/2" X 38"	2
11	D32X048RBC	Made in the USA	1
12	D48X48QR	Scan to Access Online Manual	1
13	DFEMALOGO1	FEMA	1

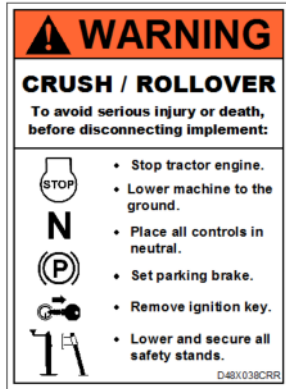
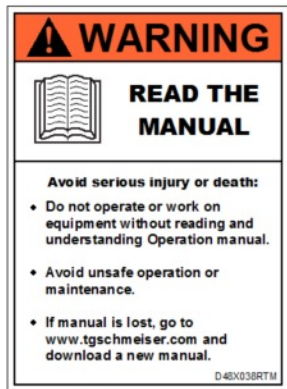


### SAFETY SIGNS AND DECALS

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

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.
- Safety signs are available from your Distributor, Dealer Parts Department, or the factory.



1

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13

**ASSEMBLY**

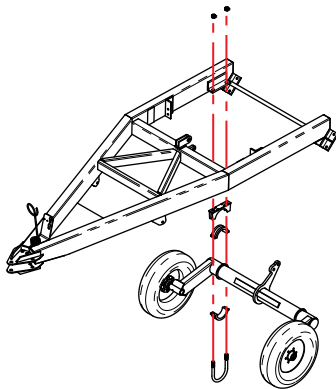
**WARNING**



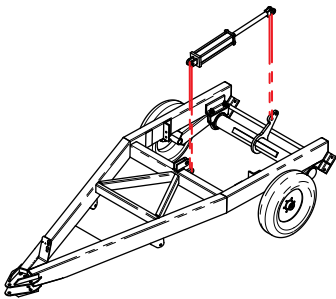
**Understand Safety Procedures!**

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

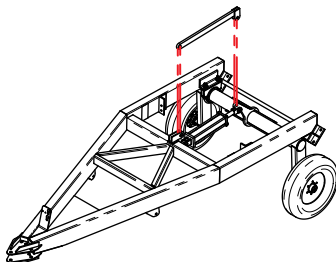
1. Mount tires to wheel axle.
2. Mount wheel axle to main frame with bearing assemblies (see Bearing assembly drawing for details). Tighten.



3. Mount 4" x 16" Hydraulic Cylinder with rod facing rear of unit to main frame and axle cylinder anchor bottom hole using (2) 1" x 3-1/2" cylinder pins with hair pin clips.



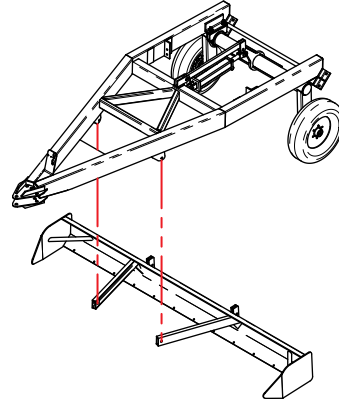
4. Secure wheel axle with lockout bar. Install yellow 1" x 2-1/2" pin with 5/16" cotter pin to the main frame side, red 1" x 2-1/2" pin with 1/4" lynch pin – to axle's cylinder anchor top hole.



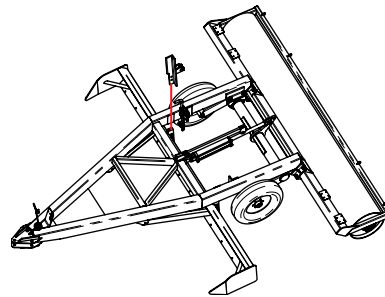
**NOTICE**

*Use connection to cylinder anchor for transportation only!*

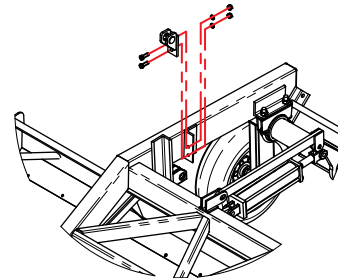
5. Move main frame over bucket. Connect bucket arms to main frame with 3/4" x 4" bolts and nylon lock hex nuts. Tighten, but bolts must be able to rotate.



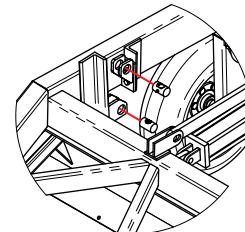
6. Mount left crank arm bar to left adjustment plate with 3/4" x 2-1/2" bolts with lock washers and hex nuts. Repeat for right handed side.



7. Mount bucket cranks to main frame crank angle bracket using (4) 5/8" x 2" bolts with lock washers and hex nuts. Tighten securely.

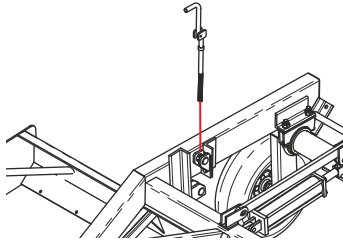


8. Install trunnion nuts in trunnion clevises on the bucket. Make sure that zerk fittings are facing inside for easier lubrication.

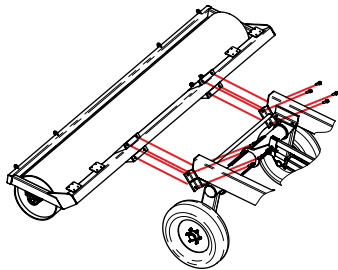




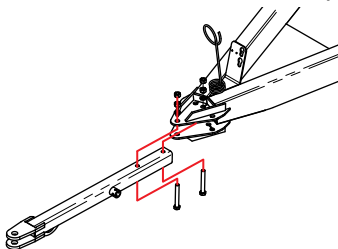
9. Lift up bucket from center to insert threaded parts of cranks into trunnions. Screw in both sides evenly.



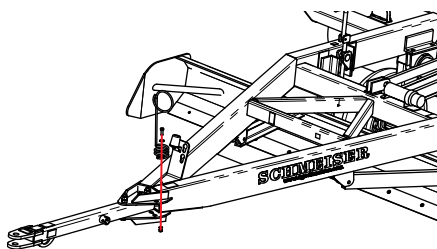
10. Position roller frame to rear of unit and connect to main frame mounting angles with (8) 3/4"x 2" bolts, lock washers, and hex nuts.



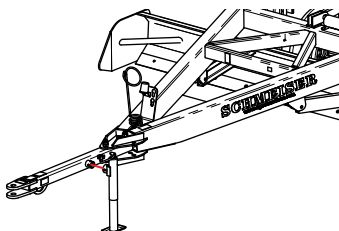
11. Insert tongue between top and bottom tongue plates on the main frame. Secure with (2) 7/8" x 6-1/2" bolts with double hex nuts. Install bolts upside down.



12. Install hose holder (pig tail) to tongue with (1) 1/2" x 1-1/2" bolt with flat washer, lock washer, and hex nut.



13. Install jack stand. Connect hoses to the hydraulic cylinder. Secure to hose holder.







14. Check all fasteners. Tighten if necessary.

### Initial Setup Checklist

Efficient and safe operation of the implement 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 implement that this checklist is followed.

Initial Setup Checklist (prior to using for the first time)	
Location	Task
	Make sure the Implement is properly attached to the tractor. Refer to "Attaching to Tractor" on page 11.
	Make sure all hardware is properly installed and tightened. Refer to "Maintenance" on page 13.
	Check the condition of the rings and bearings for wear, hydraulic hoses for leaks. Replace if necessary.
	Lubricate all grease fittings. Refer to "Lubrication Points" on page 22.

### Implement Break-In

Although there are no operational restrictions on the Implement 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 ring roller is in good condition.
2. After 10 hours of operation:
  - a. Go to the normal servicing and maintenance schedule, as defined in the Maintenance Section.

### Connecting to the Tractor

1. Raise the jack stand until the tongue is at the height of the tractor drawbar.
2. Connect the hitch of the unit to the tractor. Attach the safety chain to the tractor's drawbar cage.

**Note:** *If a drawbar pin is used, it should be an OEM certified pin and retainer clip. On Category 3 pintle hitches use a 1-1/2" (38 mm) pin. On Category 3 clevis hitches use a 1-5/8" (40 mm) Pin.*

3. Raise the jack stand and rotate into its storage position.
4. Connect the hydraulic hoses to the proper ports on the tractor.

### Detaching From Tractor

1. Park the tractor, place the transmission in park or neutral, and apply the parking brake. Shut down the engine, relieve all hydraulic pressure, and remove the key before exiting the tractor.
2. Block the wheels to prevent movement.
3. Remove the jack from its storage location and secure it to the hitch by fully inserting the locking pin through the jack and the hitch bracket. Use the jack to raise the hitch to the height needed to disconnect it from the drawbar.
4. Disconnect the hydraulic hoses from the tractor. Coil the hoses and store them on top of the implement.
5. Disconnect the hitch safety chain.
6. Remove the hitch pin and drive the tractor away from the implement.

### MAINTENANCE

#### ⚠ **WARNING**



#### **Understand Safety Procedures!**

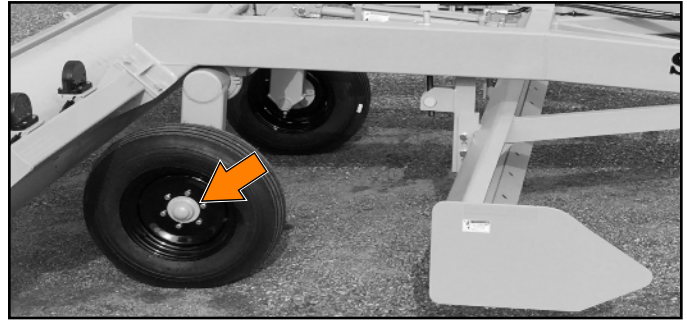
Read and understand all safety procedures described in this manual before performing any work on or around the implement.

### Lubrication Points

Add grease to the locations shown.

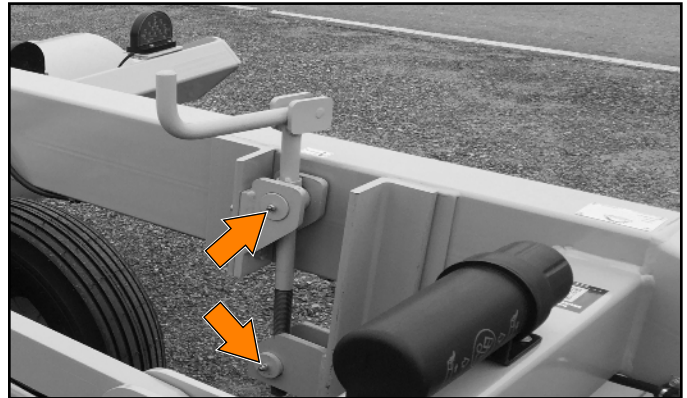
### Wheel Hub Bearings

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



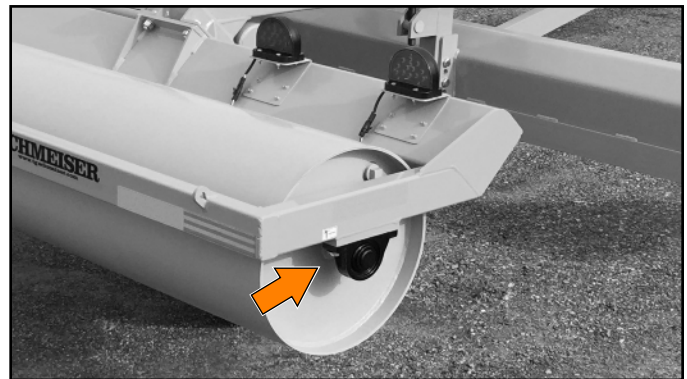
### Bucket Cranks

Lubricate the zerk fittings on the bucket cranks with a good general purpose grease every 200 hours.



### Roller Bearings

The roller bearings are greased at the factory. Prior to applying grease, allow 40 hours of operation time to break in seals. Then grease every 8 hours thereafter.

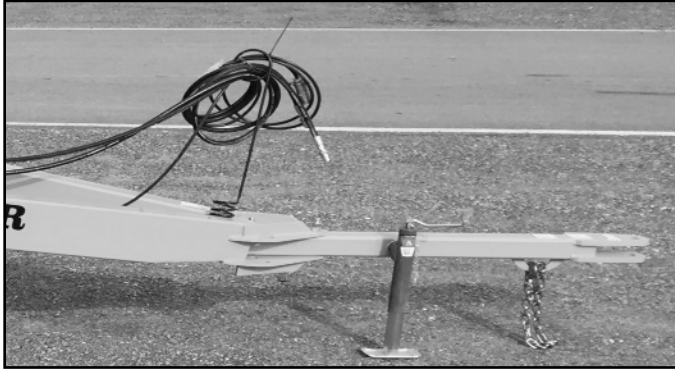


*Roller bearings do not require lubrication during the initial assembly of the unit. Check for end play in the bearings prior to adding grease.*

## Service Items

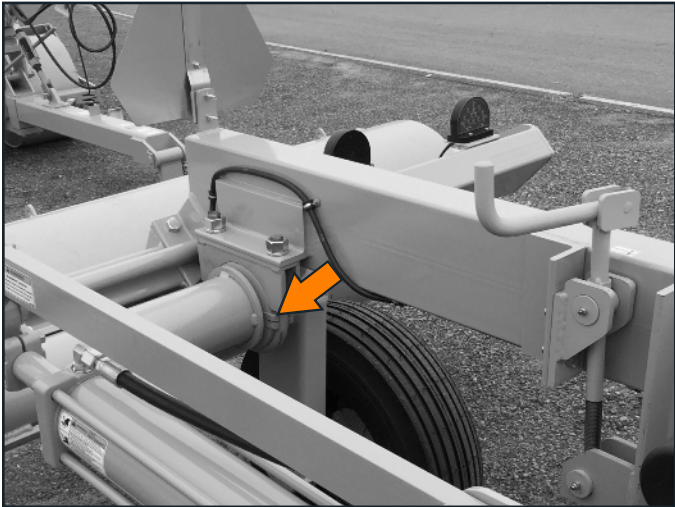
### Hydraulic Hoses

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



### Wheel Axle Bearings

Visually inspect and replace when the castings are overly worn or broken.



### Tires

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.



## Ground Engaging Components

### Bucket Blade

Ground engaging components are subject to abrasion and wear. Excessively worn components will require replacement.

Optional double beveled blades can be removed, turned over, and reattached to present a fresh edge. Replace the blades when both sides are worn out.



### Rear Roller

Visually inspect roller and mud scraper for excessive wear and damage. Replace if necessary.







**Maintenance Schedule**

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

Hours and Serviced By																				
<b>Maintenance</b>																				
<b>Before Each Use</b>																				
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 hydraulic hoses and fittings for leaks or signs of wear.																				
Check bucket blade and wheel axle bearings for wear and damage. Replace if necessary.																				
Lubricate zerk fittings on roller bearings with a good general purpose grease.																				
<b>Every 50 Hours or Weekly</b>																				
Perform the Daily Maintenance schedule.																				
Lubricate zerk fittings on bearing cranks and 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.																				
<b>Every 1000 Hours or Annually</b>																				
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.																				

Copy this page to continue the record.



## STORAGE

### Storage Preparation

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

1. Check all bolted connections. Ensure that the fasteners are tight, and all retaining pins are secured in place with appropriate retaining clips.
2. Check the tire pressure and set to the tire manufacturer's recommended specification. Inspect the tires for wear and/or damage. Make sure the wheel lugs are properly tightened. Refer to "Tire and Lug Torque Specifications" on page 13.
3. Inspect the frame for structure fractures and inspect the side wing pivot points for wear or damage.
4. Check all the bearings for signs of seal damage or excessive wear.
5. Inspect all the hydraulic hoses and fittings for leaks or signs of wear.
6. Check the ring rollers for wear and damage. If any roller teeth are excessively worn or damaged, they must be replaced.
7. Make sure all the warning decals are in place and legible. Replace any worn decals as needed.
8. Remove debris and clean the entire implement with compressed air or low pressure water.

### NOTICE

*To help prevent damage, avoid spraying air, water, steam, or cleaning solvents directly at the bearings and seals.*

9. Lubricate all grease fittings on the frame members with a good general purpose lithium grease. Refer to "Lubrication Points" on page 21 for the location of the fittings.
10. Add grease to the 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.
11. Apply a thin layer of grease or rust preventative to all exposed metal surfaces of the cylinder rod.
12. To help prevent corrosion, remove rust and apply a coat of paint to frame surfaces where paint has been worn off or damaged.

### Placing in storage

1. Raise the implement and install the transport lock.

2. Move the Bantam Leveler to a storage area with a firm and level base to prevent it from tipping or sinking into the ground. For best results, always store the Bantam Leveler in a dry, protected location. Leaving this implement unprotected will shorten the service life.
3. Disconnect all hydraulic hoses, and unhitch the implement from the tractor. Refer to "Detaching From Tractor" on page 20.
4. Store the implement with the transport wheels extended in the transport mode and the wheel support lock installed over the cylinder rod. Do not leave the tractor attached to the implement while in storage.

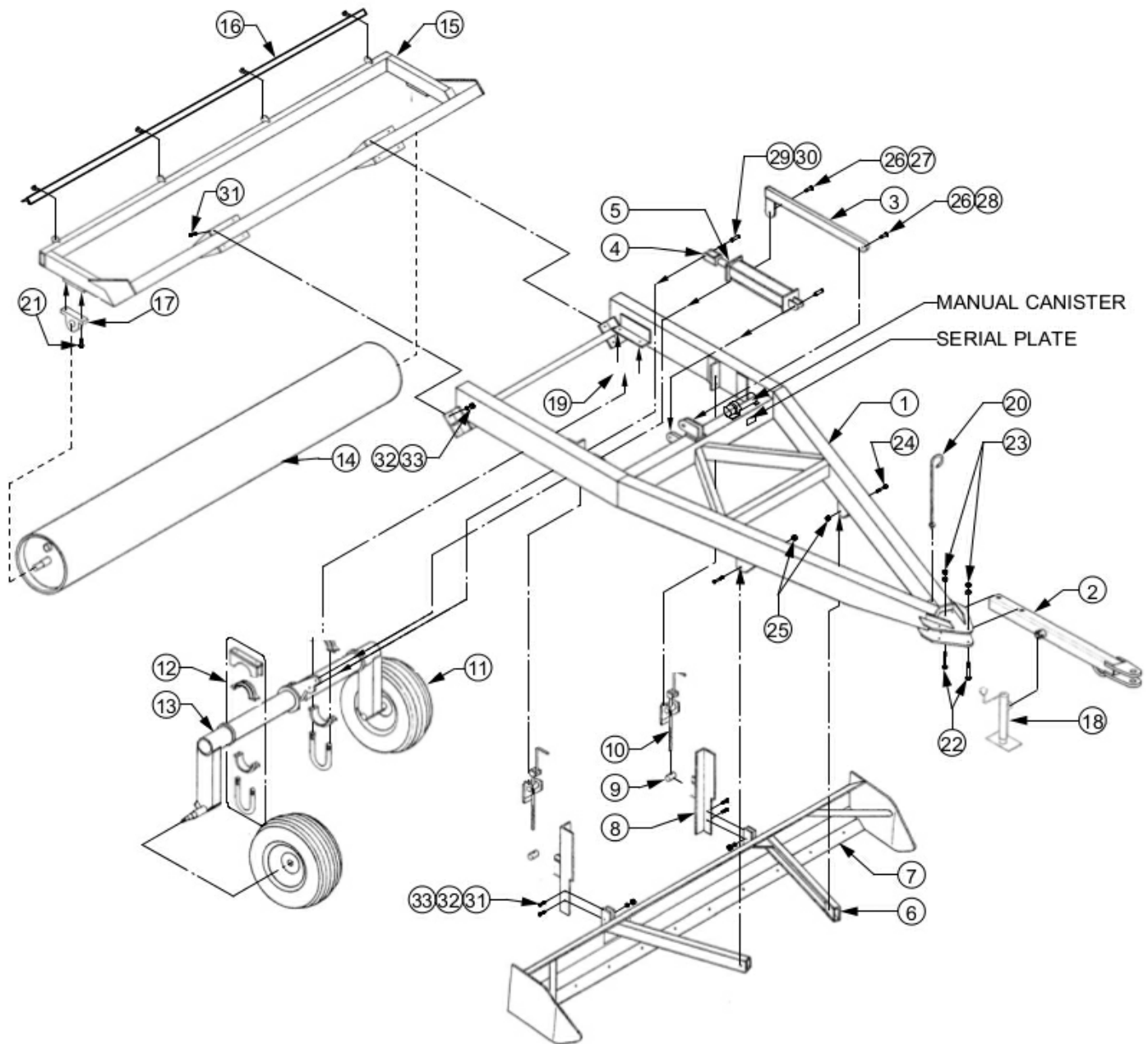
### Removing From Storage

Each season, perform the following inspection and maintenance before using the unit.

1. Read the operator's manual to review all safety, operational, and maintenance procedures.
- Note:** Store the operator's manual in the document storage canister located on the main frame.
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. Check the tire pressure and set to the tire manufacturer's recommended specification. Inspect the tires for wear and/or damage.
  5. Inspect all the hydraulic hoses and fittings for leaks and signs of wear or damage.
  6. Make sure all the warning decals are in place and legible. Replace any damaged or missing decals.
  7. Hitch the implement to a tractor and connect all hydraulic hoses. Refer to "Attaching to Tractor" on page 20. Place the implement in an area clear of overhead obstructions or power lines. Cycle the hydraulic system circuits to engage the hydraulic cylinder, verify proper operation, and check for leaks.

## COMPONENT NOMENCLATURE

### Component Locations





Item No	Part No	Description	Qty
1	SBL-00B000	Main Frame Weldment	1
2	SBL-00A000	Tongue Weldment	1
3	SBL-00J000	Hydraulic Cylinder Lockout	1
4	GHC-40160T	4" x 16" Tie Rod Hydraulic Cylinder	1
5	PMCK-34000	Seal Kit for 4" x 16" Tie Rod Hydraulic Cylinder	1
6	SBL-00C100	Bucket Weldment (Specify Size)	1
7	SBL1608 - SBL1618	Bucket Blade Kit (8ft - 18ft units)	1
8	SBL-00C300L( R )	Bucket Crank Arm LH and RH	1 of each
9	SLL1526	Crank Rod Nut (ACME Thread)	2
10	SLL1525L ( R )	Bucket Cranks LH and RH	1 of each
11	GWT-761508	7.60 x 15 Tire with Wheel	2
12	SLL1353	Wheel Axle Bearing Assembly	2
13	SBL-00E000	Wheel Axle Weldment	1
14	SBL-(00)G000	Roller Weldment	1
15	SBL-(00)F000	Roller Frame Weldment	1
16	SBL-(00)H000	Roller Scraper Weldment	1
17	TPP3150	1-11/16" Pillow Block Bearing (9ft - 15ft units)	2
	TPP3157	1-15/16" Pillow Block Bearing (16ft and up units)	
18	GJK-2KTW10	Jack Stand	1
19	SLL1351	1" Bearing Cradle Weldment	2
20	GHD-HHOLD1	Hose Holder	1
21	CSNC508032	1/2" x 2-1/4" Gr.5 NC Cap Screw (9ft - 15ft units)	4
	CSNC510040	5/8" x 2-1/2" Gr.5 NC Cap Screw (16ft and up units)	4
22	CSNC514104	7/8" x 6-1/2" Gr.5 NC Cap Screw	2
23	HXNUT-14NC	7/8" NC Hex Nut	4
24	CSNC512064	3/4" x 4" Gr.5 NC Cap Screw	2
25	HYNUT-12NC	3/4" Nylon Lock Hex Nut	2
26	GPN-16X040	1" x 2-1/2" Clevis Pin Weldment	2
27	GPN-040LYN	1/4" Lynch Pin	1
28	GPN-05X40C	5/16" Cotter Pin	1
29	GPN-1656HC	1" x 3-1/2" Cylinder Pin	2
30	GPN-03CLIP	5/32" Hair Pin Clip	2
31	CSNC512032	3/4" x 2" Gr.5 NC Cap Screw	12
32	LWASHER-12	3/4" Lock Washer	12
33	HXNUT-12NC	3/4" NC Hex Nut	12

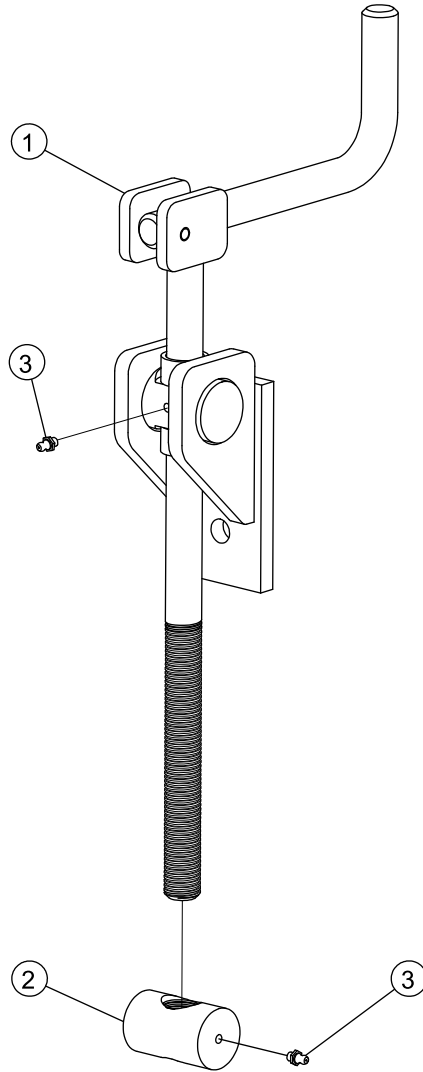


### Ordering Parts

We manufacture a quality product that requires very little maintenance or repair. However, should a part break or become damaged, our knowledgeable staff can make sure you receive the part(s) to put your unit back into operation.

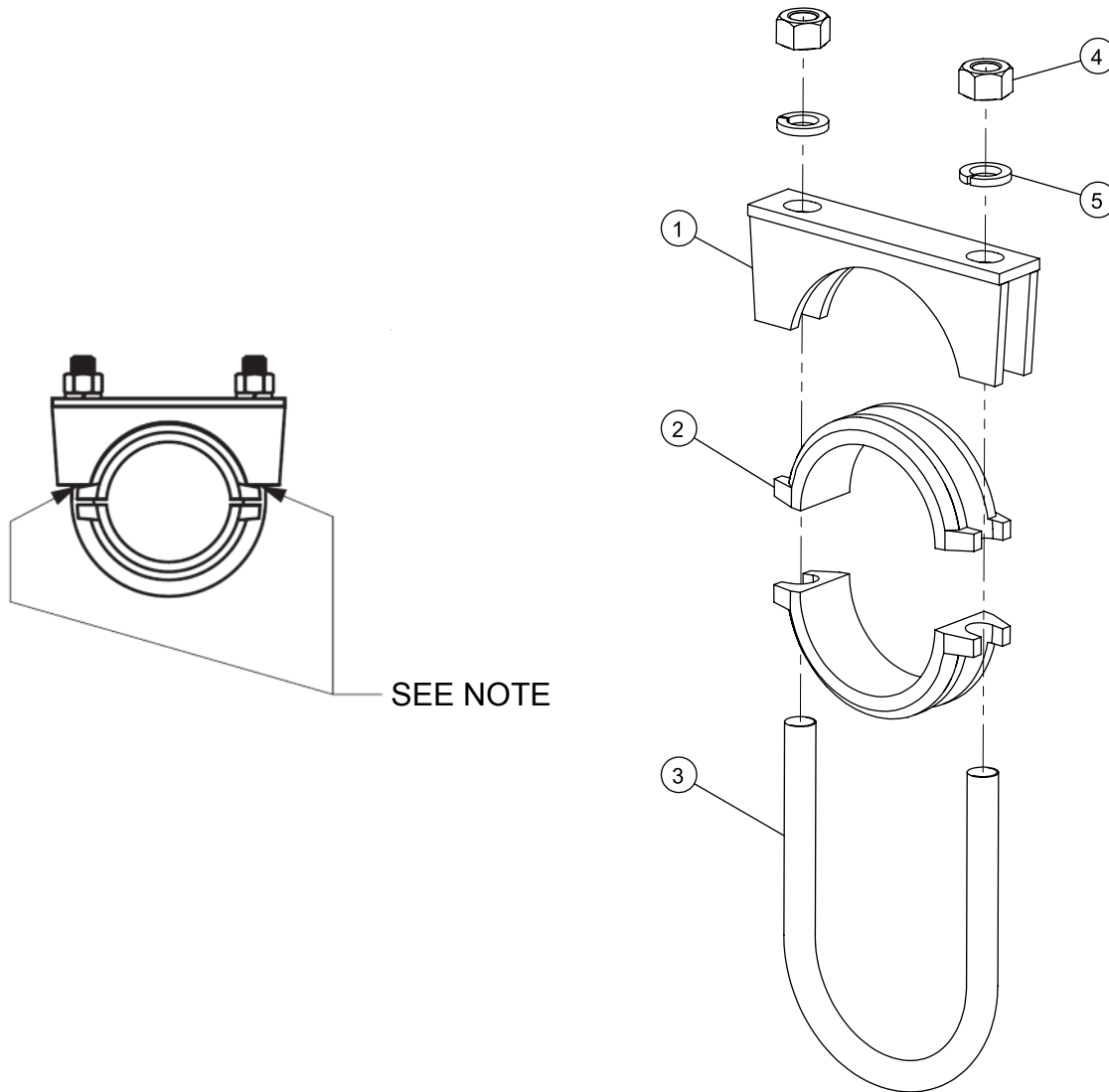
### Parts Drawings

#### Bucket Crank Assembly



Item No	Part No	Description	Qty
1	SLL1525L	Bucket Crank Assembly LH	1
	SLL1525R	Bucket Crank Assembly RH	1
2	SLL1526	Bucket Crank Rod Nut ACME Thread	2
3	GMB-ZERKTH	Threaded Zerk Fitting	4

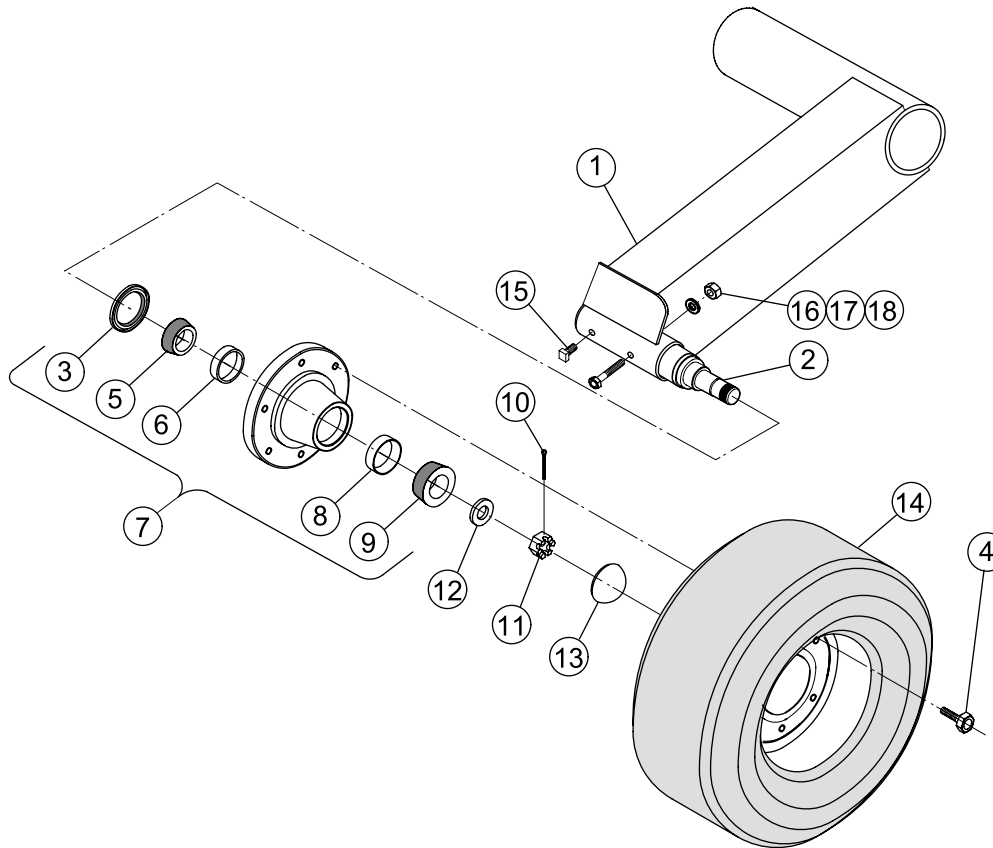
**Wheel Axle Bearing Assembly**



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

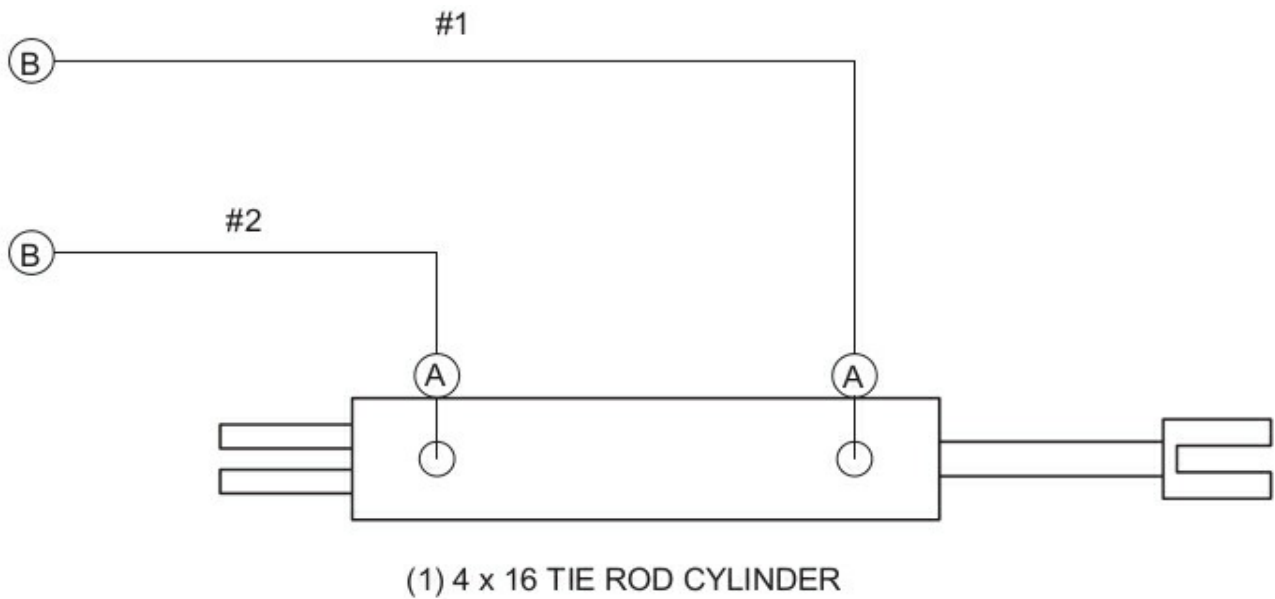
Item No	Part No	Description	Qty
1	SLL1351	Bearing Cradle Cap Weldment	2
2	SLL1350	Bearing Cradle Casting Machined	4
3	UBNC16122R	1" Bearing U-Bolt	2
4	HXNUT-16NC	1" NC Hex Nut	4
5	LWASHER-16	1" Lock Washer	4
	SLL1352	U-Bolt Assembly (includes items 3, 4, and 5)	
	SLL1353	Axle Bearing Assembly (includes items 1, 2, 3, 4, and 5)	

### Wheel Axle Assembly



Item No	Part No	Description	Qty
1	SBL-00E000	Wheel Axle Weldment	1
2	PTU-00P011	2" x 11" Single Ended Removable Spindle	2
3	GHB-6X6GSL	Grease Seal	2
4	WHB-08X016	1/2" x 1" UNF Wheel Bolts for 6 on 6 Std. Hub	12
5	GHB-6X6ICN	Inner Bearing Cone for 6 on 6 Std. Hub	2
6	GHB-6X6IRC	Inner Bearing Cup for 6 on 6 Std. Hub	2
7	GHB-6X6STD	Standard 6 on 6 Hub Assembly Complete (includes items 3, 4, 5, 6, 8, 9, 13)	2
8	GHB-6X6ORC	Outer Bearing Cup for 6 on 6 Std. Hub	2
9	GHB-6X6OCN	Outer Bearing Cone for 6 on 6 Std. Hub	2
10	GSP-14SPWA	Spindle Washer	2
11	GSP-14CANT	Spindle Castle Nut	2
12	GPN-03X32C	3/16" x 2" Cotter Pin	2
13	GHB-6X6CAP	Hub Cap	2
14	GWT-761508	7.6 x 15 8 Ply Tire with Wheel	2
15	SSNCS08X16	1/2" X 1" NC Set Screw	2
16	CSNC507056	7/16" X 3-1/2" NC Gr.5 Cap Screw	2
17	LWASHER-07	7/16" Lock Washer	2
18	HXNUT-07NC	7/16" NC Hex Nut	2

### Hydraulic Diagram



**Note:** All fittings are 3000 PSI Cap

All hoses are 1/2" Ø

Hydraulic Cylinder		
Part No	Description	Qty
GHC-40160T	4" x 16" Tie Rod Cylinder	1

Fittings			
Item No	Part No	Description	Qty
A	FMBMJ9088	MB-MJ 90° 8-8 Fitting	2
B	FFP08000PT	8FP Pioneer Tips	2

Hoses			
Item No	Part No	Description	Qty
#1	---	8MP-8FJX 208" Long	1
#2	----	8MP-8FJX 188" Long	1
	HKBL	Hose Kit (includes both hoses)	



# LIMITED WARRANTY STATEMENT

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## 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**



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