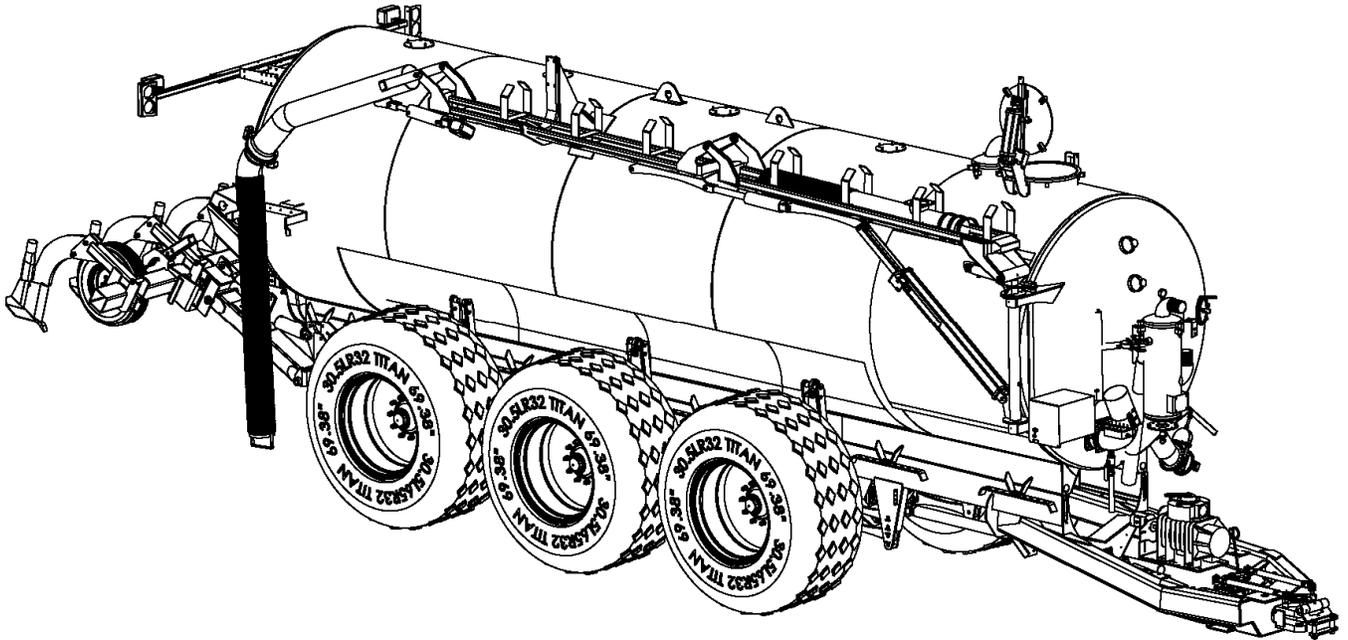


# Manure Tanks



Express 5250



**USER MANUAL**

**April 2009**

# To the Purchaser



This is the safety alert symbol. It is used to alert the operator to an instruction concerning the personal safety and risk factor of this equipment. Always observe and heed these very important instructions to promote a safe operation with good preventive maintenance habits.

This new Balzer Inc. product is designed and manufactured to give years of very dependable service when used for the purpose for which it is intended, and when properly maintained.

## **NEVER OPERATE THIS EQUIPMENT AT SPEEDS OVER 20MPH**

**NEVER OPERATE THIS EQUIPMENT UNTIL USER FULLY UNDERSTANDS THE COMPLETE CONTENTS OF THIS MANUAL. FOR OWNERS WHO DO NOT OPERATE THIS EQUIPMENT, IT IS THE OWNER'S RESPONSIBILITY THAT THE USER IS PROPERLY INSTRUCTED AND IS FULLY AWARE OF THIS MANUAL'S CONTENTS.**

This is important in the safe handling of this equipment and promoting an efficient operation. If there are any questions about areas in this manual, it is important to contact your dealer for clarification.

This machine is warranted as stated on the next page. A registration card is to be filled in by your dealer with your name and address, and promptly returned to the factory. The card provides a ready reference to help you in securing warranty and in answering questions that you may have at some later date.

Operating instructions and parts book are shipped with this machine. If parts of this book are missing or become unreadable, contact your dealer for a new set.

The serial number and identification tag is located to the front of the frame. Please refer to these numbers when parts or warranty communication is necessary.

## **PLEASE FILL IN THE FOLLOWING INFORMATION FOR YOUR RECORDS:**

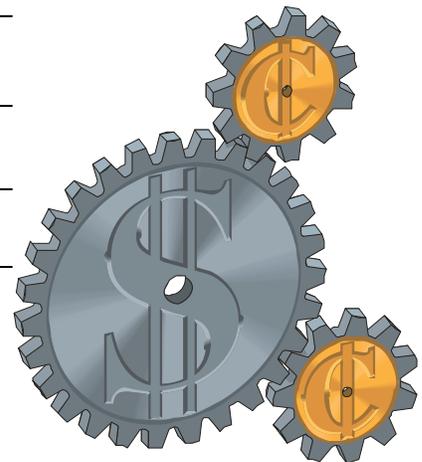
Date of purchase: \_\_\_\_\_

Owner's name: \_\_\_\_\_

Dealer's name : \_\_\_\_\_

Model #: \_\_\_\_\_

Serial # Identification # \_\_\_\_\_



# Warranty



## *WARRANTY MANUFACTURER*

Dealer or Distributor understands and agrees that the Manufacturer extends only the following Warranty to customers. In the event Dealer or Distributor extends any additional warranty (such as by enlarging the scope or period of warranty or undertaking a warranty of merchantability or fitness for any particular purpose) or any other obligation whatsoever, Dealer or Distributor shall: (1) be solely responsible therefore (2) have no recourse against Manufacturer thereof and (3) defend, indemnify and hold Manufacturer harmless against any claim or cause of action whatsoever arising out of, or occasioned by, Dealer or Distributor's extension of said additional warranty or obligation.

## *CERTIFICATE OF GENERAL EQUIPMENT WARRANTY*



Balzer Inc. warrants new Products sold by it to be free from defects in material or workmanship for a period of one (1) year after date of delivery to the first user and subject to the following conditions. Balzer Inc.'s obligation and liability under this Warranty is expressly limited to repairing or replacing at Balzer Inc.'s option, any parts which appear to Balzer Inc. upon inspection to have been defective in material or workmanship. Such parts shall be provided at no cost to user, at the business establishment of the authorized Balzer Inc. dealer or distributor of the Product during regular working hours. This Warranty shall not apply to component parts or accessories of Products not manufactured by Balzer Inc. and which carry the warranty of the manufacturer thereof, or to normal maintenance (such as tune-up) or normal maintenance parts (such as oil filters). Replacement or repair parts installed in this Product covered by this Warranty are warranted only for the remainder of this Warranty as if such parts were original components of said Product. **BALZER INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.**

Balzer Inc.'s obligation under this Warranty shall not include any transportation charges, cost of installation, duty taxes or any other charges whatsoever, or any liability for direct, indirect, incidental or consequential damage or delay. If requested by Balzer Inc. products or parts for which a warranty claim is made are to be returned transportation prepaid to Balzer Inc. Any improper use, including operation after discovery of defective or worn parts, operation beyond rated capacity, substitution or parts not approved by Balzer Inc. company or any alteration or repair by others in such manner as in Balzer Inc. company's judgment affects the Products materially and adversely, shall void this Warranty.

**“NO EMPLOYEE OR REPRESENTATIVE IS AUTHORIZED TO CHANGE THIS WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY UNLESS SUCH CHANGE IS MADE IN WRITING AND SIGNED BY AN OFFICER OF BALZER INC. AT ITS HOME OFFICE.”**

## *LIABILITY FOR DELAYS*

No liability shall attach to Manufacturer direct, or indirect, incidental or consequential damages or expenses due to loss, damage, detention of delay in delivery of Products resulting from acts or delays beyond its control.

# Warranty Registration



## Important- Read This First

The registration card is to be filled in completely and promptly returned to factory. It provides a ready reference to help you in securing parts and in answering questions that you may have at a later time.

This card does not put you on a mailing list. Nor is the information on the card made available to anyone else.

We urge the return of this card so that you will receive maximum service benefits.

Where a separate instruction manual has been received by the customer, a parts manual was sent with this machine. If you have not received the parts manual, ask your dealer.

Cut Along Dotted Line and Mail to: Balzer, Inc.  
County Road 27 East  
P.O. Box 458  
Mountain Lake, MN 56159

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## Warranty Registration Card

This form must be filled out and signed by customer at the time of delivery.

**Product** \_\_\_\_\_  
**Model #** \_\_\_\_\_  
**Serial #** \_\_\_\_\_  
**Date of Purchase** \_\_\_\_\_  
**Customer Name** \_\_\_\_\_  
**Address** \_\_\_\_\_  
**City** \_\_\_\_\_ **State** \_\_\_\_\_ **Zip** \_\_\_\_\_  
**Dealers Name** \_\_\_\_\_  
**Address** \_\_\_\_\_  
**City** \_\_\_\_\_ **State** \_\_\_\_\_ **Zip** \_\_\_\_\_

The above unit and Operator's Manual have been received and I understand and have been thoroughly instructed by my dealer as to Operator's Manual content, equipment care, adjustments, safe operation & explained and reviewed the warranty policy.

**Owner's Signature** \_\_\_\_\_





Balzer Inc is dedicated to providing the most reliable and durable AG related products. Balzer Inc has made every attempt to provide the most accurate and readily understandable information on our equipment. Due to our continuing efforts to produce the best products available, upgrades and improvements to our equipment may precede the manual updates. Therefore, contents of this manual are based on information in effect at the time of publication and are subject to change without notice.



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# Safety

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The following Safety Alert Symbols mean **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!** They stress an attitude of “Heads Up for Safety” and can be found throughout this Operation Manual and on the machine itself.

**BEFORE YOU ATTEMPT TO OPERATE THIS EQUIPMENT, READ AND STUDY THE FOLLOWING SAFETY INFORMATION. IN ADDITION, MAKE SURE THAT EVERY INDIVIDUAL WHO OPERATES OR WORKS WITH THIS EQUIPMENT, WHETHER FAMILY MEMBER OR EMPLOYEE, IS FAMILIAR WITH THESE SAFETY PRECAUTIONS.**

Our Company **ALWAYS** takes operator safety into consideration when designing its machinery, guards, and exposed moving parts for operator protection. However, some areas can **NOT** be guarded or shielded in order to assure proper operation. In addition to this Operation Manual; decals on the machine warn of further danger and should be read and observed closely.

 <b>DANGER</b>	“DANGER” indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
--	---

 <b>WARNING</b>	“WARNING” indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
--	---

 <b>CAUTION</b>	“CAUTION” indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
--	--

**READ** and follow the instructions on all decals.

**REMEMBER!** It is the owner's responsibility for communicating information on the safe use and proper maintenance of this machine! This includes providing understandable interpretation of these instructions for operators who are not fluent in reading English.



## MANDATORY SAFETY SHUTDOWN PROCEDURE

**BEFORE** cleaning, adjusting, lubricating or servicing the unit:

1. Remove the ignition key from the power unit engine.
2. **Make sure that all movement of the unit has ceased. ONLY** when you have taken these precautions can you be sure it is safe to proceed. Failure to follow the above procedure, could lead to death or serious bodily injury.
3. Attach jack to unit and raise up to transfer weight to the jack.
4. Keep hitch pin attached to help prevent unit from accidentally moving.
5. Disconnect the PTO.

## ADDITIONAL SAFETY REMINDERS

**USER/OPERATOR SAFETY PRACTICES** are included in this Operation Manual and are intended to promote **SAFE OPERATION** of the unit.

These guidelines do not preclude the use of good judgment, care, and common sense as may be indicated by the particular job site work conditions.

It is essential that operators be physically and mentally free of mind altering drugs and chemicals and thoroughly trained in the safe operation of the unit. Such training should be presented completely to all new operators and not condensed for those claiming previous experience.

Some photographs used in this manual may show Doors, Guards, and Shields open or removed for illustration purposes **ONLY. BE SURE** that all Doors, Guards, and Shields are in their proper operating positions **BEFORE** operating the unit. **NEVER** operate this unit with any guards or shields not in place. Replace any missing or damaged ones.

**Keep hands and feet away from all moving parts.**

The operator **MUST** know the capabilities and work applications for the machine, and operate it at speeds slow enough to insure complete control at all times. When working on uneven ground or near the edge of roadbeds, there is no substitute for good judgment and only operators with sufficient experience should attempt such work.

**NEVER assume** that everybody is as safety conscious as you are.



## PERSONAL SAFETY

- **Do not** allow minors and any unqualified trained personnel to operate or be near the unit unless properly supervised!
- **Do not** allow anyone to ride on the unit at anytime!
- **Never leave** the unit running unattended!
- **Always wear** appropriate personal safety gear as called for by the job or working conditions!
- **Never wear** loose clothing while working around moving parts.
- **Always be aware** of pinch point areas on the unit!
- Keep hands, feet, hair and clothing away from moving parts.
- Stop and disengage PTO and shut off tractor before doing any adjusting or servicing to unit.
- **Never step** on or over PTO drive-line at any time.



## PER OPERATION SAFETY

- **Before each** tow: Check that the tail lights, brake lights and turn signals work correctly.
- Improper electrical connection between the tow vehicle and the trailer will result in inoperable lights and electric brakes, and can lead to collision.
- **Do not** operate on public roads after dark without warning lights.
- Be sure the rear of the unit has a clean “slow moving vehicle” emblem properly displayed. If towing at less than 20 mph on any public roadway at night, proper warning and running lights are necessary as required by state law!
- **DO NOT** pull the unit without having safety chains (not supplied) securing the unit to the tractor.
- Refer to local transportation laws for regulation on safety chain use. Maximum speed is 20 mph.
- Size of tractor must be sufficient to maintain vehicle stability when fully loaded.
- **Always use a hitch pin that has a safety clip pin!**
- If unit is equipped with the braking system, check oil level and braking capacity with a full load on unit before operating the unit.
- Check wheel bolts daily and tighten them as required.
- Keep hands, feet, hair and clothing away from moving parts.
- Insure all guards are in place before using.
- Replace any parts which show signs of excessive wear, cracking, or likelihood of failure, with original equipment service parts.
- Be familiar with the levers controlling all hydraulically controlled components.
- **Before loading**, make sure that the unit does not have any foreign object or material in it that can cause equipment damage or personal injury.
- **Never enter the unit** unless it is absolutely necessary. If a unit must be entered, take proper safety precautions. This includes someone at the site, outside the unit and a proper life support system. Contact your Balzer dealer for more information before you enter a unit.
- Check that PTO slides freely, is not damaged and is secured properly to tractor and unit. Make sure that there is approximately 1/3 over-lap of engagement. (Refer to Draw-Bar Adjustment)



## OPERATION SAFETY

- **Be alert** and avoid loose, soft or icy surface conditions that could cause tipping or loss of control.
- When possible, travel by driving up or down the slope. Avoid traveling along side hills.
- **Always check** the job site for hazardous terrain, obstructions or bystanders.
- Slow down prior to going down any steep grade.
- **Never** take tractor out of gear when going downhill.
- **Do not exceed** the maximum weight carrying capacity of the equipment or the tractor manufacturer's maximum towing capacity; whichever is lower.
- Never use a tractor that is not recommended for the type of unit you are using. If you have any questions contact your Balzer Dealer.
- When agitating a pit, always be sure there is adequate ventilation in any confined area. (If Applicable)
- Keep hands, feet, hair and clothing away from moving parts.
- **Do not stand** in front, behind, or along side of the machine when machine is running.
- When parking unit, block wheels securely before unhitching from tractor.

## TOWING SAFETY

- **THE MAX SPEED OF THE TOWING TRACTOR IS 20 MPH.**
- Observe recommended maximum road speeds, or local speed limits which ever may be lower.
- **Always move unit with a farm tractor only!**
- **ALWAYS ENGAGE** power-steering before turning with loaded unit. (Lever In Float Position)
- **DO NOT DISENGAGE** power-steering before turning process is over. (Lever In Float Position)
- **Stopping distance** increases with speed and weight of towed loads and on slopes. Towed loads with or without brakes that are too heavy for the tractor or are towed too fast can cause loss of control. Consider the total weight of the equipment and its load.
- Tractor must be heavy and powerful enough with adequate braking power for the towed load. Use additional caution when towing loads under adverse surface condition, when turning, and on inclines.



## HYDRAULIC SYSTEM SAFETY

- **Do not smoke** while working on hydraulic systems!
- **Never** use your hand to search for hydraulic fluid leaks; escaping fluid under pressure can be invisible and can penetrate the skin and cause a serious injury!
- **USE A SCRAP PIECE OF CARDBOARD TO CHECK FOR LEAKS!**
- **If any fluid is injected** into your skin, see a doctor at once! Notify medical staff that there is an injection injury with hydraulic fluid. Injected fluid must be surgically removed by a doctor familiar with this type of injury or gangrene may result!
- **Do not attempt** to loosen or disconnect any hydraulic lines, hoses or fittings without first relieving hydraulic circuit pressure. Also, be careful not to touch any hydraulic components that have been in recent operation because they can be extremely hot!
- **Always** replace hydraulic components with manufacturer recommended replacement parts. Improperly rated components may result in system failure and/or injuries.
- Contact your local Balzer dealer to order replacement parts.

## SAFETY SIGNS ARE IMPORTANT

Safety signs or decals provide very important information and instructions designed to alert you to dangers and hazards that can be present during operation of this equipment. However, safety sign instructions must be read, understood and followed to be effective.

## REPLACEMENT OF SAFETY SIGNS

Safety signs or decals must be kept clean and readable. If they become unreadable for any reason, they must be replaced with an identical replacement decal. Safety decals must also be replaced if parts are repaired or replaced with new parts that do not already include the necessary safety decals.

## APPLICATION OF SAFETY DECALS

Surface preparation is very important for safety decals to properly adhere. Grease, oil and dirt must be removed and the surface must be smooth and dry.

Most decals have a split backing which is meant to be removed from the split outward. To apply the decals follow these procedures:

1. Position the decal in the proper location and hold firmly over the largest portion of backing.
2. Use one hand to hold the decal in position, with the other hand carefully roll the loose end over and peel the backing outward. When the backing is removed as described and shown (Fig. 1), with even and gradual pulling, the decal will roll onto the surface smooth and wrinkle free.
3. With the smallest portion of the decal attached, the same procedure can be applied to the other half.

4. When the decal has been attached in place, use a cloth or soft paper towel to burnish the decal onto the cleaned surface. Work gently from the middle outwards to avoid creating any wrinkles.

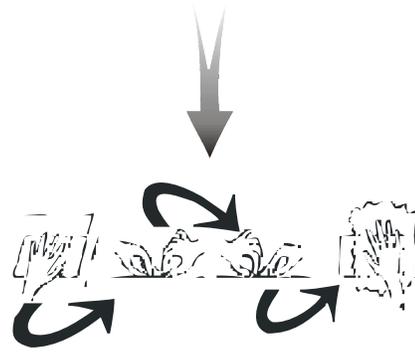


Fig. 1



## REPLACEMENT DECALS

Order replacement decals by part number through your nearest dealer. Part numbers are printed on each decal.





**! DANGER**

**MOVING PARTS HAZARD**

- Keep hands, clothing, and hair away from moving belts and parts.
- Replace guard before operating.

21730

**! DANGER**

**STOP:** WAIT FOR ALL MOVEMENT TO STOP BEFORE SERVICING OR OPENING OF SHIELDS.

**LOOK:** THE IGNITION KEY IS REMOVED.

**LISTEN:** FOR ALL MOVEMENT TO STOP, ROTATING PARTS CONTINUE TO ROTATE AFTER POWER IS SHUT OFF.

14175



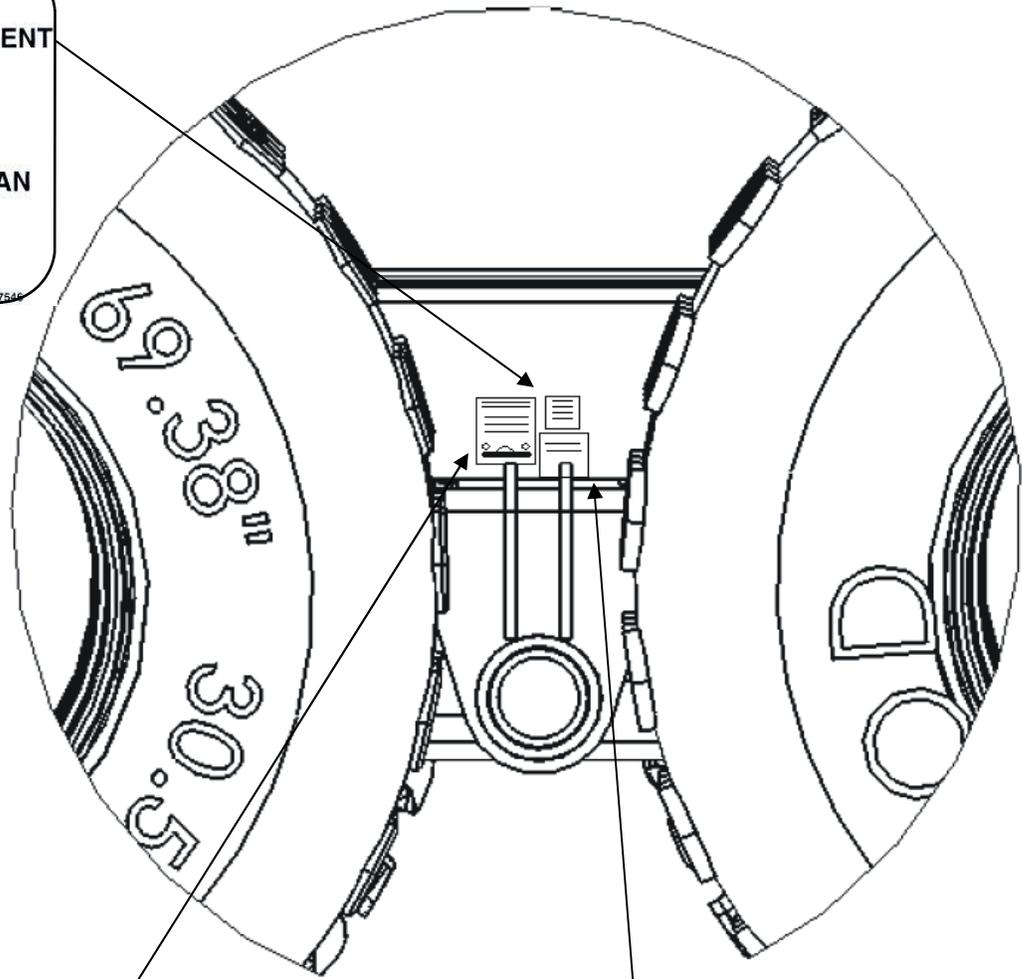
**GUARD MISSING  
DO NOT OPERATE**

**! DANGER**



**IMPORTANT**  
**HUB BEARING ADJUSTMENT**  
 1. DELIVERY  
 2. FIRST DAYS USE  
 3. WEEKLY  
 UNTIL NO END PLAY CAN  
 BE DETECTED  
 4. SEMIANNUALLY

P# 17546



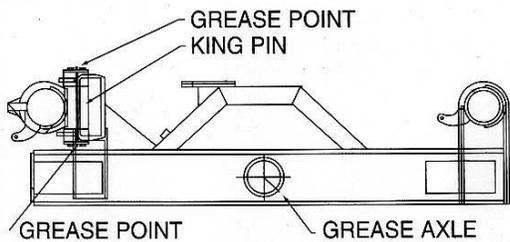
## Grease all steering systems

The king pin requires grease every day the unit is used in the field.

Grease sufficiently two places on the top and bottom of king pin, position tires all right, then all left, and center to distribute grease around the king pin.

Grease well after washing the unit and at the end of the season.

Grease abundantly the tandem axle cross main tube every day.



P# 37601

**IMPORTANT**  
**TIGHTEN WHEEL BOLTS**  
**BEFORE EACH DAY'S USE**  
**FOR THE FIRST 5 DAYS**

**TO 450 FT/LB**      **TANK EMPTY**

P# 11233



# Safety

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# Operation



# Operation



## Pre Operation Checks

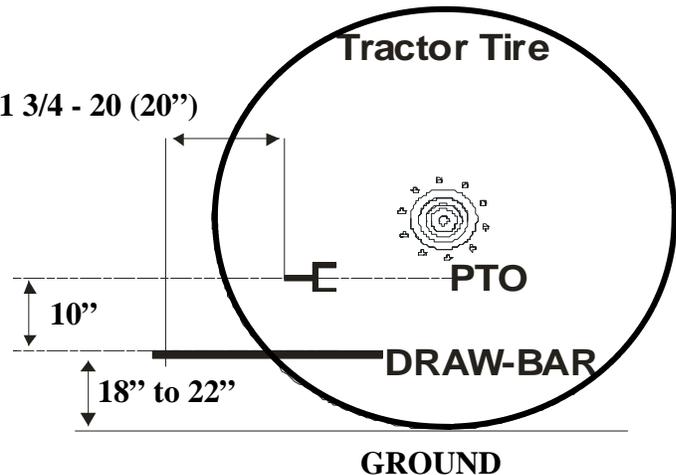
- Make sure safety shields are in place.
- Make sure there is no frozen material to obstruct moving components.
- Make sure tractor draw bar matches standards shown in draw bar adjustment diagram.

### HOSE COLOR MARKINGS

- RED** - Brakes
- YELLOW** - Steering Lock Out
- BLUE** - 3 Way Valve
- BLUE/RED** - Down Pressure
- ORANGE** - Hydraulic Slurry
- GREEN** - Injector Arms
- GREEN/BLUE** - VAC Boom Valve
- YELLOW/BLUE** - Load Leveling
- ORANGE/BLUE** - VAC Pump

### Required Draw-Bar Adjustment (CAT-3)

1000 RPM 1 3/4 - 20 (20")



 **DANGER** Improper PTO Length May Damage The Unit.

## ATTACHING TO TRACTOR

- Attach tractor draw bar to hitch using the properly sized hitch pin that has a retainer device.
- Attach safety chain to tractor.



### NOTE

Prior to connecting the tractor to a mechanical steering unit, adjust the two top tie bars to the gearbox so they are as short as possible. They should be up as much as the tolerance on the hitch assembly will allow without undue stress on the gearbox vertical shaft.

- **(Mechanical Steering Option Only)** Drop steering plate down onto draw bar and bolt-on spacer.
- Crank trailer jack down to slowly place pressure on draw bar. Move jack to storage location and secure.
- Check that the tractor's PTO has proper size splines. (If option is available)
- Check that PTO slides freely and is not damaged.
- Attach PTO shaft to tractor securely as required by its locking mechanism. PTO should have approximately 1/3 over-lap.
- **(Mechanical Steering Option Only)** Connect load leveling cylinder to tractor and pressurize cylinders to proper height for operation. Once cylinders have been leveled, remove hose and store on tank.
- Attach hydraulic lines making sure the connectors are clean and in good repair. See hose color code list above. Connect 7-pin connector and remote control wires. (If option is available)
- If unit comes with a zero return hydraulic line it needs to be hooked up to a zero return hydraulic connection on tractor. **(If this is not done, damage to unit will occur!!!)**



## Initial Start-up

- **Never operate** this machine if shields are missing or if persons are in or on this machine.
- Do not leave tractor seat.
- Keep everyone away while operating this machine.
- Operate all hydraulic controls to become familiar with the function of each tractor lever and to visually see that the unit is responding correctly.
- **Engage PTO SLOWLY** with tractor throttle at slow idle. Use maximum modulation on tractor PTO control.
- **Watch and listen** to confirm that the unit is operating properly. Run at fast idle for 5 minutes, disengage PTO and shut off tractor engine and remove keys from ignition. Make all adjustments before any further operating is attempted.



### **NOTE**

Make mental and/or physical notes concerning which way to move the lever to get the desired result.



### **CAUTION**

To prevent premature drive line failure, tractor turning should be limited to approximately 10 degrees when drive line is rotating.



### **WARNING**

Torque lug nuts to 420 ft/lbs. Tighten lug nuts before each day's use for the first 5 days.

## Tank Loading Procedure

### Hydraulic Driven Vacuum Boom Tanks

- Run VAC Boom Remote to insert hose into tank/pit.
- Adjust needle valve on 7 Bank Hydraulic Control Valve Mount on tank to control speed of the Boom if needed.
- Open the 8” Brass Valve Function on the Remote.
- Close the Load Hatch Function on the Remote.
- Move the lever on vacuum Pump to the VAC Position.
- Start the hydraulic motor that drives the vacuum Pump.



**NOTE** It will take a minute or so before manure is sucked up the hose to the tank.

- When tank is full, close 8” Brass Valve Function on the Remote.
- Shut off hydraulic motor that drives the VAC Pump.
- Remove Boom from tank/pit.
- The RED indicator light will illuminate when Boom is raised up high enough to swing into Boom Saddle. Park Boom for transport.
- Begin to apply manure to field.



## Tank Loading Procedure

### PTO Driven Vacuum Boom Tanks

- Run VAC Boom Remote to insert hose into tank/pit.
- Adjust needle valve on 7 Bank Hydraulic Control Valve Mount on tank to control speed of the Boom if needed.
- Open the 8” Brass Valve Function on the Remote.
- Raise plow up. This will close the 6” brass valve mount on slurry pump.
- Close the Load Hatch Function on the Remote.
- Move the lever on vacuum pump to the VAC Position.
- Engage tractor PTO slowly, then increase the PTO speed to the vacuum pump.



**NOTE** It will take a minute or so before manure is sucked up the hose to the tank.

- When tank is full, close 8” Brass Valve Function on the Remote.
- Disengage tractor PTO to the vacuum pump.
- Remove Boom from tank/pit.
- The RED indicator light will illuminate when Boom is raised up high enough to swing into Boom Saddle. Park Boom for transport.
- Begin to apply manure to field.

## Tank Loading Procedure

### Hydraulic Driven Vacuum Tanks

- Attach suction hose to Ball Coupler Flange.
- Open brass valve.
- Raise plow up. This will close the 6” brass valve mount on slurry pump.
- Move the lever on vacuum pump to the VAC Position.
- Close the Load Hatch Function on the Remote.
- Start the hydraulic motor that drives the vacuum pump.



**NOTE** It will take a minute or so before manure is sucked up the hose to the tank.

- When tank is full, close brass valve.
- Shut off hydraulic motor that drives the VAC Pump.
- Disconnect suction hose to Ball Coupler Flange.
- Begin to apply manure to field.



## Tank Loading Procedure

### PTO Driven Vacuum Tanks

- Attach suction hose to Ball Coupler Flange.
- Open brass valve.
- Raise plow up. This will close the 6” brass valve mount on slurry pump.
- Move the lever on vacuum pump to the VAC Position.
- Close the Load Hatch Function on the Remote.
- Engage tractor PTO slowly, then increase the PTO speed to the vacuum pump.



**NOTE** It will take a minute or so before manure is sucked up the hose to the tank.

- When tank is full, close brass valve.
- Disengage tractor PTO to the vacuum pump.
- Disconnect suction hose to Ball Coupler Flange.
- Begin to apply manure to field.



## Tank Loading Procedure

### Hydraulic/PTO Driven Slurry Tanks

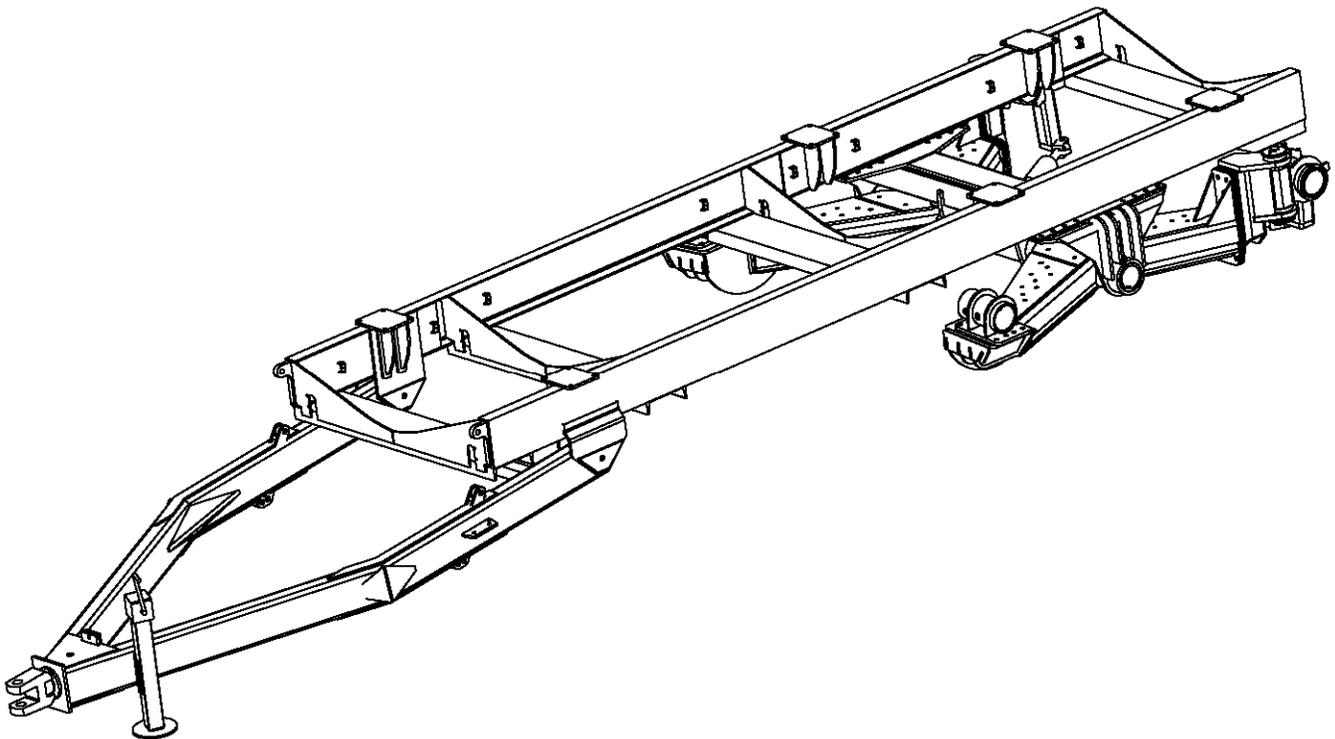
- Position tank under load stand or attach filling hose to Self-Load Function.
- Load tank full.
- Lower plow down into the ground. If Down-Pressure Block is available, increase or decrease pressure to control the plow's force in the ground.
- Start or engage the hydraulic motor or PTO that drives the slurry pump.
- Begin injecting manure into the ground.



**NOTE** Do Not Turn the unit if plow is in the ground. This will damage the plow.

- To stop injecting manure into the ground, stop or disengage the hydraulic motor or PTO that drives the pump.
- Raise plow up.

## Tandem Axle Frame



## Braking System

### Pressure Releasing Spring

Some tractors hydraulic systems keep a small amount of pressure in the hydraulic lines even when the control lever is set to “float” position. A pressure releasing spring is used to counteract the hydraulic pressure coming from the tractor.

### Brake Operation

#### Tractors with “closed center or open center” hydraulic circuit.

1. To apply the brakes, the lever must be pulled fully backward.
2. To release the brakes, the lever must be pushed fully forward to the “float position”.

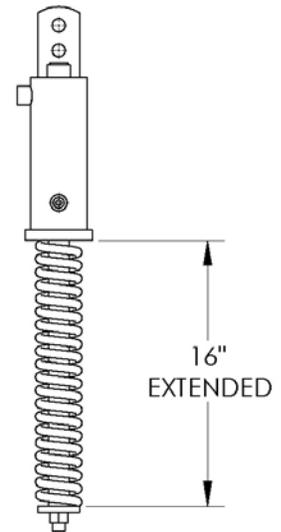
### Inspection Of Braking Fluid Level

If the spring is compressed down to 8” or less when braking, add hydraulic fluid as per “**Fill Instructions for Master Cylinder**”.

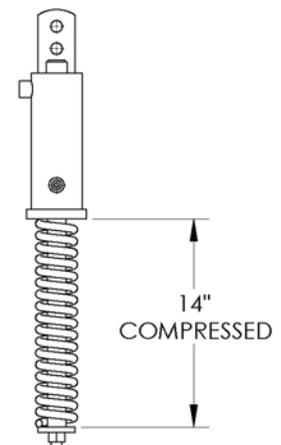
### Fill Instructions for Master Cylinder

The master cylinder of the braking system is designed to create a vacuum in the hydraulic lines leading to the calipers. When the brakes are fully released, the vacuum created pulls the piston of the calipers to fully retract, which disengages the brakes on the unit. To do so, the master cylinder must never be full of hydraulic fluid when braking.

1. Attach jumper hose #72182 to (“A” port) and (“B” port).
2. Connect the hydraulic hoses to the tractor ( RED marked hoses).
3. Open ball valve to (“A” port).
4. Apply and hold pressure to braking system from tractor hydraulics.
5. Relieve all pressure from the hydraulic lines from the tractor for the braking system (RED marked hoses).
6. Close Ball Valve to (“A” port).
7. Remove jumper hose #72182 from (“A” port) and (“B” port).
8. Apply and hold pressure to braking system.
9. Open bleeder screw on any brake caliper.  
(This will allow the master cylinder spring to compress down to 14” long.
10. When the master cylinder has compressed down to 14” long, tighten bleeder screw.



When the master is fully extended, the pressure release spring measures roughly 16” long.



When adding braking fluid to the master cylinder for the last time, the pressure releasing spring must be held compressed at 14” long.

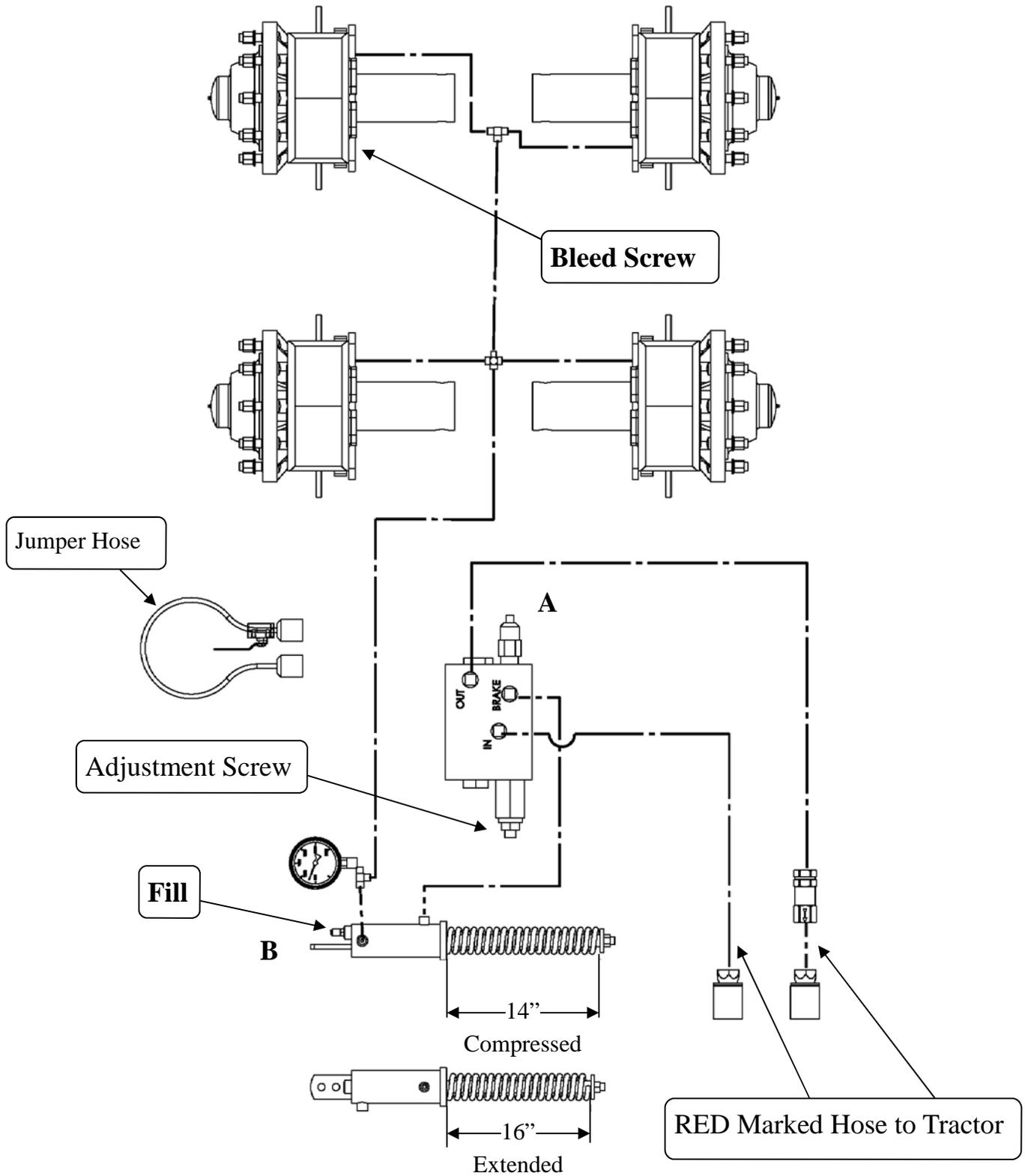


## Braking System

### How To Bleed The Wheel Brakes

1. Attach jumper hose #72182 to (“**A**” port) and (“**B**” port).
2. Connect the hydraulic hoses to the tractor (**RED marked hoses**).
3. Apply and hold pressure to braking system from tractor hydraulics.
4. Open ball valve to (“**A**” port).
5. Loosen bleeder screw on brake caliper of closest wheel to tractor first, until no air bubbles come out.
6. Repeat procedure until all brakes are bled.
7. Relieve all pressure from the hydraulic lines from the tractor for the braking system (**RED marked hoses**).
8. Close Ball Valve to (“**A**” port).
9. Remove jumper hose #72182 from (“**A**” port) and (“**B**” port).
10. Apply and hold pressure to braking system.
11. Open bleeder screw on any brake caliper.  
(This will allow the master cylinder spring to compress down to 14” long.)
12. When the master cylinder has compressed down to 14” long, tighten bleeder screw.

## Braking System Schematic



## PTO/JACK

### PTO

The PTO has 1 3/4—20 tractor ends and 1 3/4—20 implement ends. The implement end provides a friction clutch or shear bolt that protects the gear box and drive-line from overload. The PTO must be engaged slowly, use max modulation on tractor. **Do not slam engage!**



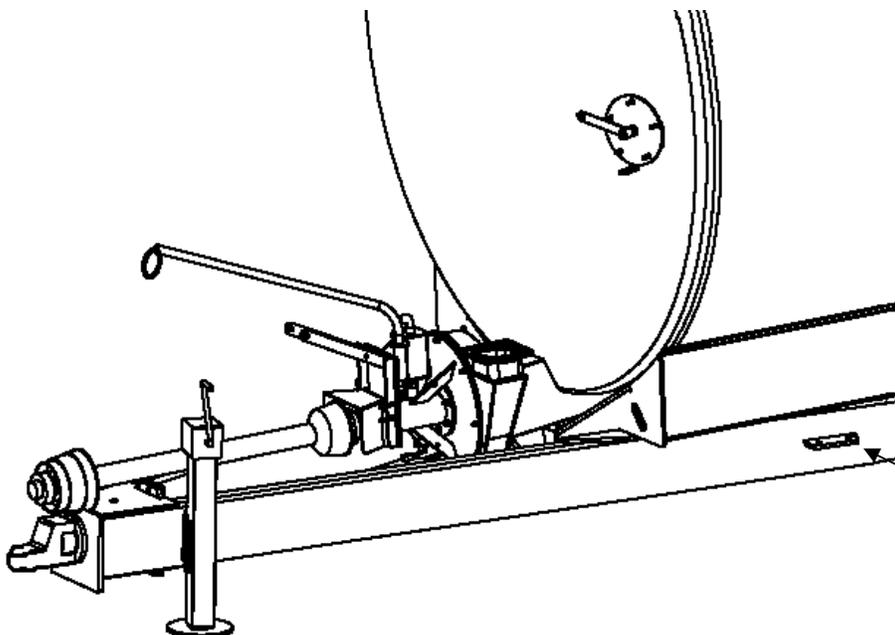
Shear Bolt



**Never operate without PTO Guards!**

### Jack Storage

The jack storage location is pictured below. This location keeps it out of the way of the tires and removes the possibility of dragging.



Jack Storage





## Periodic Maintenance

	<b>CAUTION</b> Before doing any maintenance to the hydraulic system, turn the tractor engine off and relieve all pressure from the hydraulic systems.
---	---

### DAILY MAINTENANCE & INSPECTIONS BEFORE USE

1. Check air pressure in tires. **(as per recommended tire pressure)**
2. Torque wheel nuts on all tires. **(as per recommended torque specifications)**
3. Inspect all suspension parts for damage. **(repair or replace as needed)**
4. Check all oil chambers for proper oil level. **(as per recommended oil specifications)**
5. Inspect all moving components for damage. **(repair or replace as needed)**
6. Check that brakes are working correctly.
7. Check for any hydraulic oil or any oil that may be leaking out. **(repair or replace as needed)**
8. During cold weather conditions check that there is no ice build up on any moving parts. **(could prevent components from moving)**

### DAILY GREASING (AS PER LUBRICATION INSTRUCTIONS)

1. PTO, joints and telescoping shafts.
2. Swivel tow bar hitch.
3. All cylinders pivot bushings.
4. All moving parts that can be greased.
5. Steering system kingpins and axle tube bushings.

### EVERY 40 HOURS OF OPERATION

1. Check all oil chambers for proper oil level.
2. Grease hubs of wheel bearings.
3. Torque wheel nuts on all tires. **(as per recommended torque specifications)**

### EVERY END OF SEASON OF OPERATION

1. Change oils in all oil chambers with recommended oil.
2. Grease steering system kingpins and axle tube bushings with extra amount of grease while turning axle in both directions in order to push out all the old grease.
3. Remove brass breather vent from bottom of steering cylinder and clean with solvent and compressed air. **DO NOT USE WIRE BRUSH, VENT WILL BE DAMAGED.**

	<b>NOTE</b> Refer to “HYD STEERING TANDEM” in Parts Section for location.
---	---

4. **Empty unit completely.**
5. Clean exterior and interior of unit thoroughly with a high pressure washer.
6. Drain unit completely. Open all drain plugs and or doors.
7. Wipe a thick coat of grease on all cylinder rods before storing unit.
8. Proceed to a complete lubrication of the unit.
9. Store inside out of the weather.
10. Check for any hydraulic oil or any oil that may be leaking out. **(Repair or replace as needed)**

	<b>WARNING</b> Torque lug nuts to 420 ft/lbs. Tighten lug nuts before each day's use for the first 5 days.
---	---

# Lubrication & Maintenance

## Steering Lubrication Tandem Axle

There are four (4) grease fittings located on the center pivot tube; two (2) on the top and two (2) on the bottom of the round center pivot tube of each Tandem arm.

There are four (4) grease fittings located on the kingpins. Two (2) on the top and two (2) on the bottom.

To grease the hinge kingpins, it is best to have the wheels steering straight one time, to the left the next time and finally to the right. This process insures that grease is getting to all areas of the kingpin.

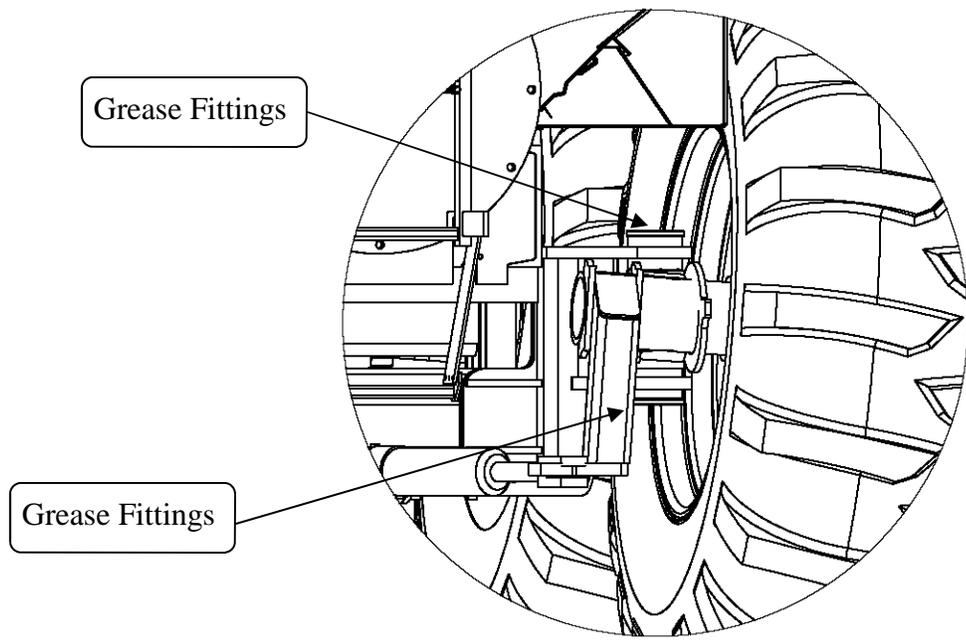
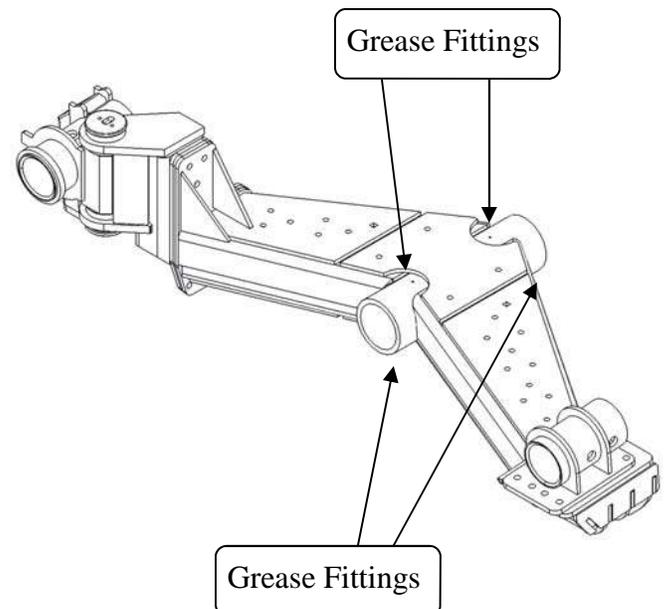
Grease each location until new grease can be seen being pushed out.

The king pin requires grease every 4 hours the unit is in operation.

Proper steering is dependant upon adequate greasing.

When conditions are dry and dusty, the tandem arms and kingpins will require grease more often.

The tandem axle pivot tube requires grease every 8 hours the unit is in operation.

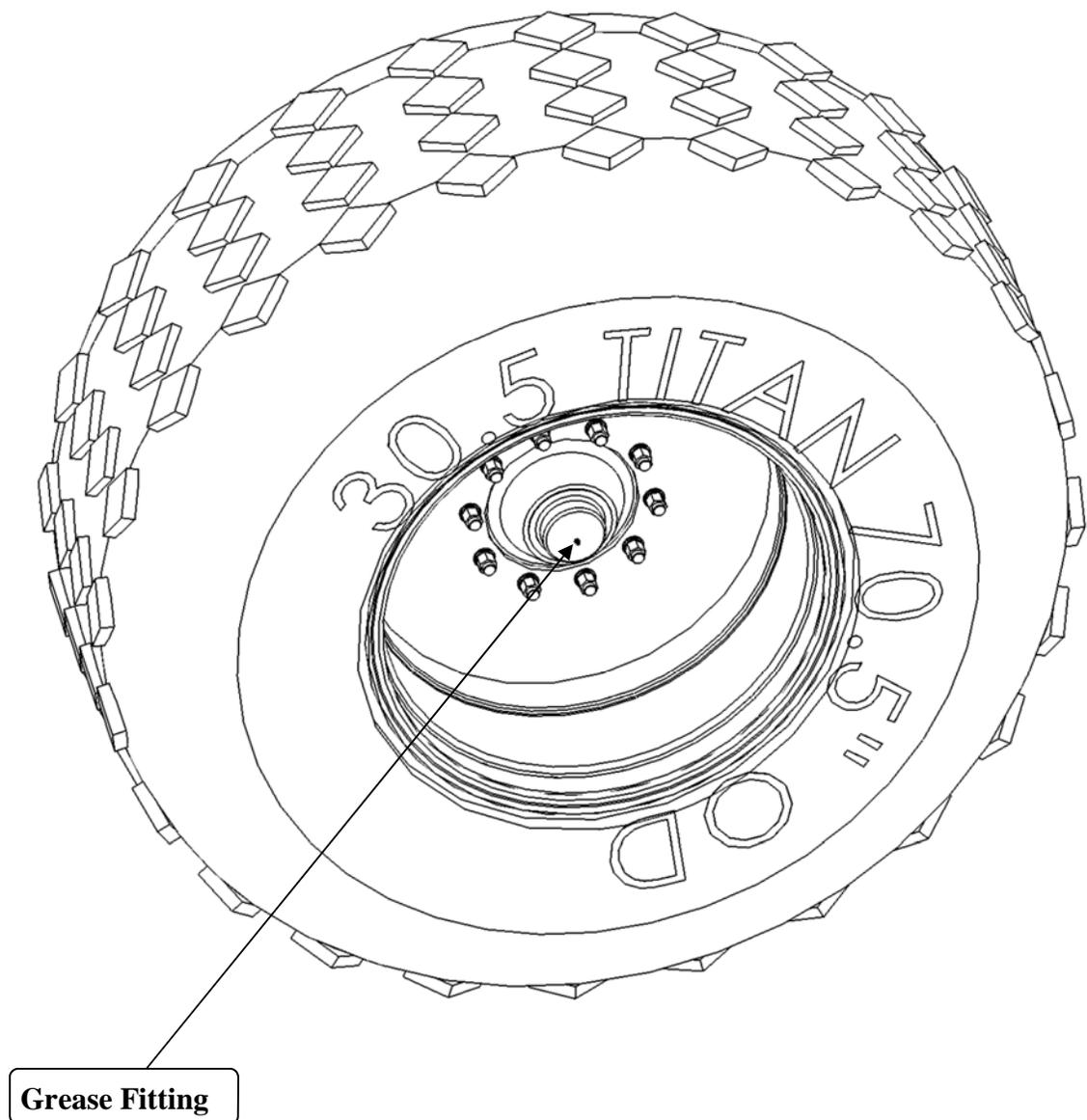


 **NOTE** Grease thoroughly before pressure washing near kingpins.

## Hub:

Check and pack wheel hub bearings seasonally.

Grease every 40 hours of operation.





## 1) Trouble with steering of rear axles on tandem or front and rear of Tridem models.

- A. Ensure the hydraulic line for the steering (**YELLOW** color) is in the right side of the tractors hydraulic bank.
- B. Grease the kingpin assemblies two (2) grease fittings on both sides in the straight position and in the turned position. This kingpin assembly must be greased daily in order for the steering system to function properly.
- C. System may have air trapped inside resulting in a malfunction. This requires the hydraulic steering system to be bled. See Steering System Bleeding Instructions.
- D. If the system is still not steering properly, call Balzer's Service Department at 1-800-795-8551 Extension 134 or 0 for the operator.

## 2) Trouble backing up with steering wheels going in the wrong direction (Note: This may occur in extreme conditions such as mud, ice and/or snow.)

- A. Take the hydraulic line out of the float position and then move the lever to pressurize the cylinders. This will straighten the tires and then lock them.
- B. System is still not steering properly, call Balzer's Service Department at 1-800-795-8551 Extension 134 or 0 for the operator.

## 3) Trouble figuring out which hydraulic hoses go where.

- A) RED marked hose = Brake Cylinders (Note: if option is available on your cart.)
- B) YELLOW marked hose = Steering System
- C) BLUE marked hose = ?????
- D) BLUE/RED = ?????
- E) ORANGE marked hose = ?????
- F) NO COLOR = ?????



**County Road 27 East, PO Box 458, Mountain Lake, MN 56159**

**Phone Number:**

**(800) 795-8551**

**(800) 727-3133**

**Main:**

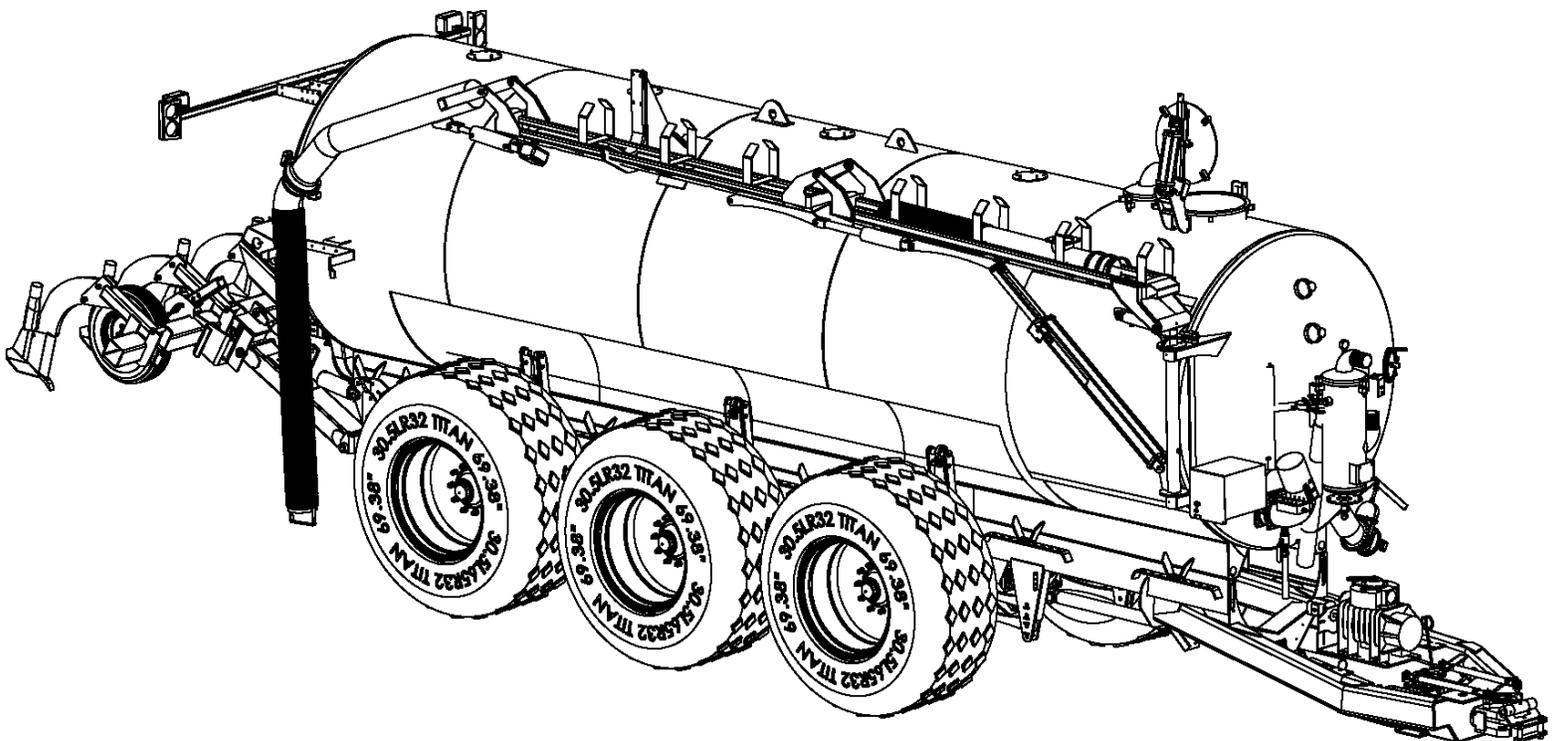
**(507) 427-3133**

**Fax Number:**

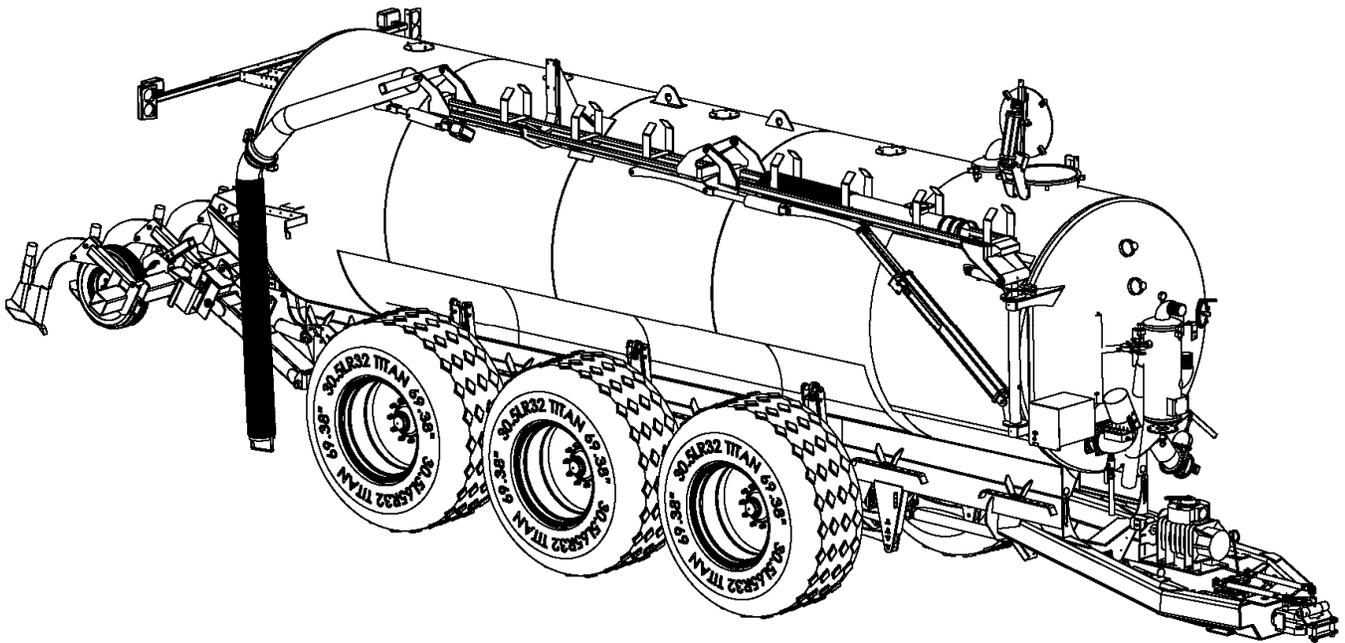
**(507) 427-3640**

**Website:**

**<http://www.balzerinc.com>**



# Manure Tanks



ES 5000	LP 4200	LPN 4200	MS 2250	MV 1500
ES 5250	LP 4800	LPN 4800	MS 2600	MV 1800
ES 6000	LP 6350	LPN 5360	MS 3000	MV 2250
ES 6750	LP 7350	LPN 5700	MS 3350	MV 2600
ES 7500	LP 5-W 7400	LPN 6350	MS 3750	MV 3000
ES 8000	LP 5-W 8000	LPN 5-W 6500	MS 4200	MV 3350
ES 8244	LP 5-W 8500	LPN 5-W 7400	MS 4800	MV 3750
		LPN 5-W 8000	MS 6000	MV 4200
		LPN 5-W 8500	MS 7500	MV 4800
				MV 6000
				MV 6500
				MV 7500

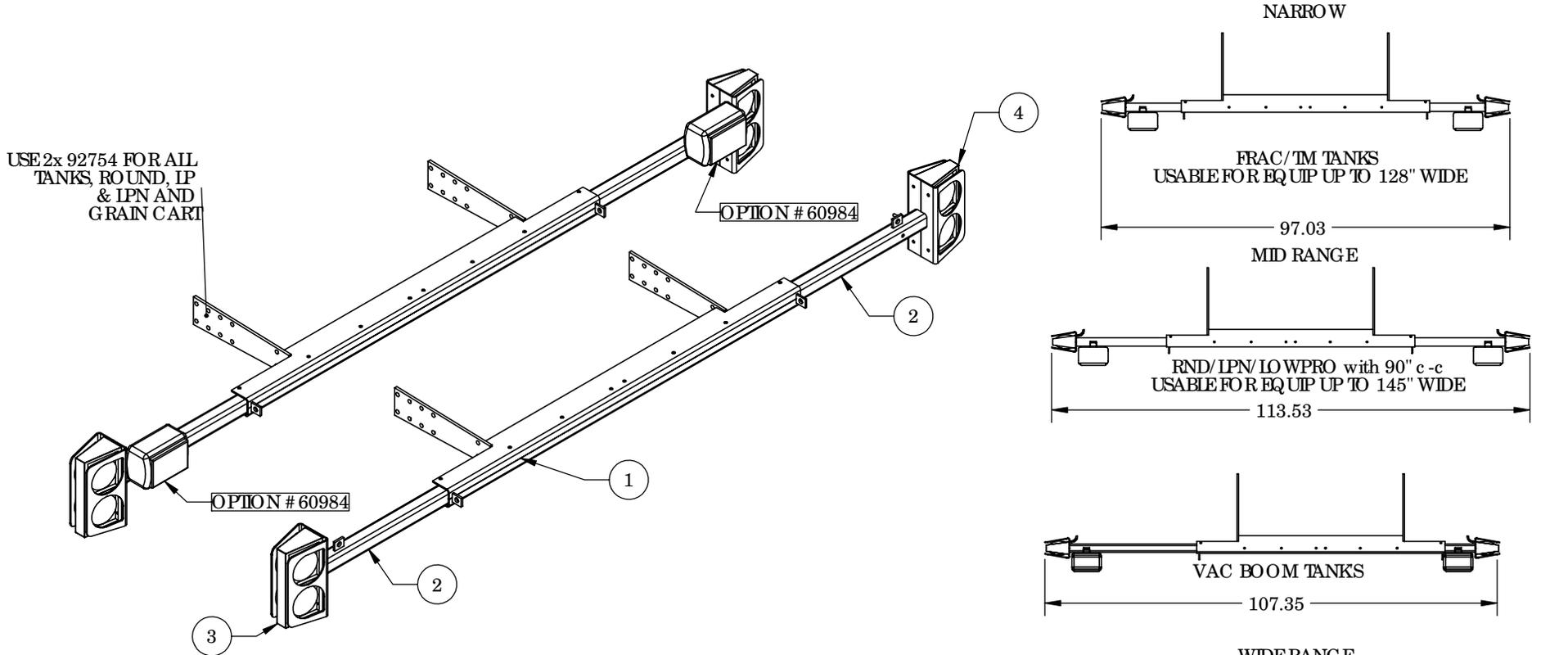
**PARTS MANUAL**

**April 2009**



# Parts

## 91350 Light Bar



2QTY -# 60984 WORKLIGHT3"X5" HALGON

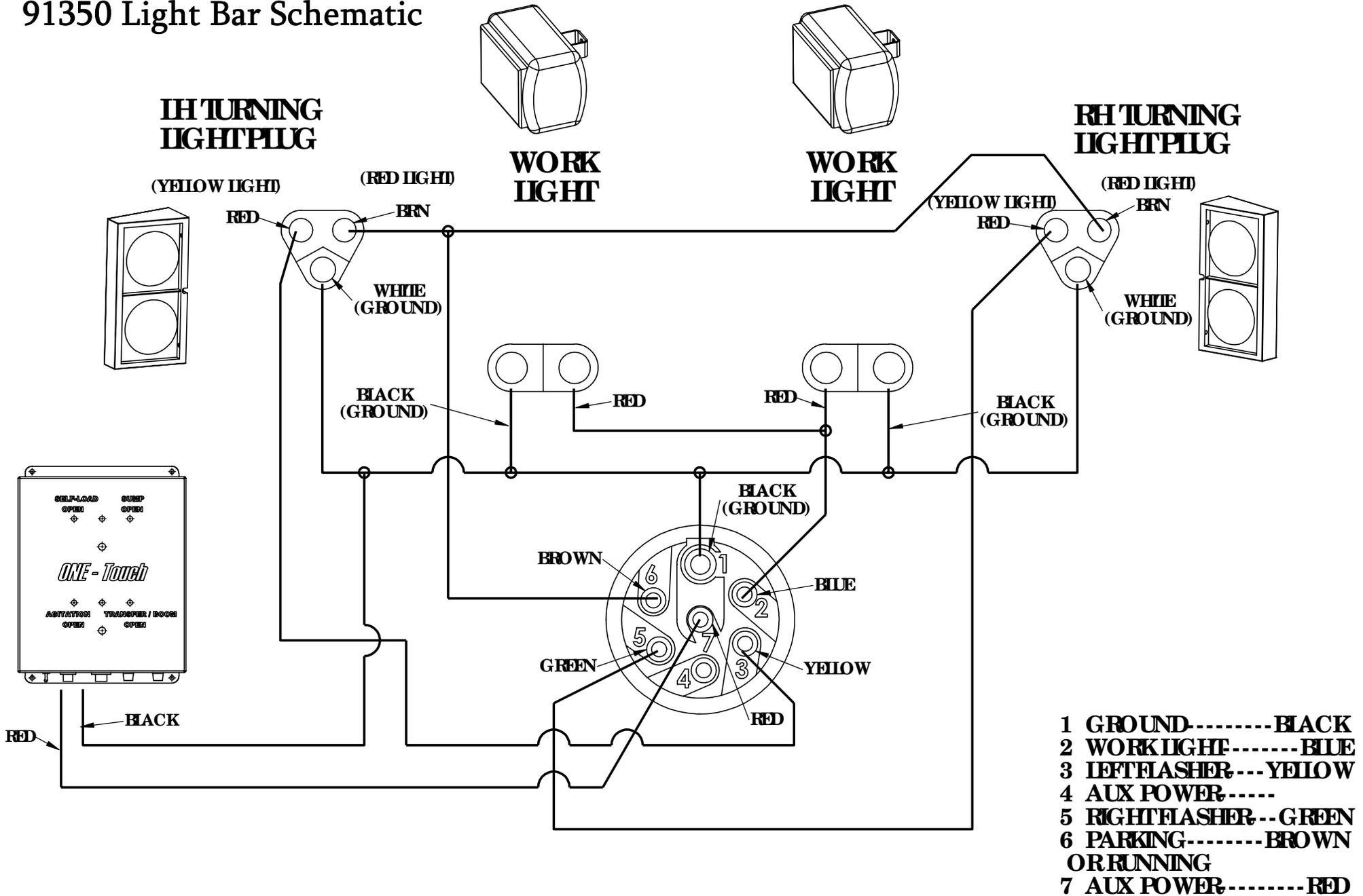
ITEM #	QTY.	PART#	DESCRIPTION
1	1	92755	LIGHTBAR RECEIVER
2	2	91352	LIGHTBRACKETWELD
3	1	40763	LIGHTTURNING LH
4	1	40762	LIGHTTURNING RH
5	43	29937	ELECTRICAL WIRE 16/6 (PER FT)
6	6	2081	NUT.31 WHIZ LOCK ZP.
7	6	1185	BOLT HEX HEAD .31" x 1" GRD5
8	1	33224	RUBBER BOOT FOR 27701
9	2	40766	WIRING PIG TAIL/ TAIL LIGHT
10	11	31441	WIRE NUT 22-14 GA ORANGE
11	1	27701	PLUG ELECT 7 CONNECTOR FML
12	3	15742	CLAMP, PIPE 1/4"

LAST REVISED  
Friday, May 01, 2009 2:28:01 PM

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# Parts

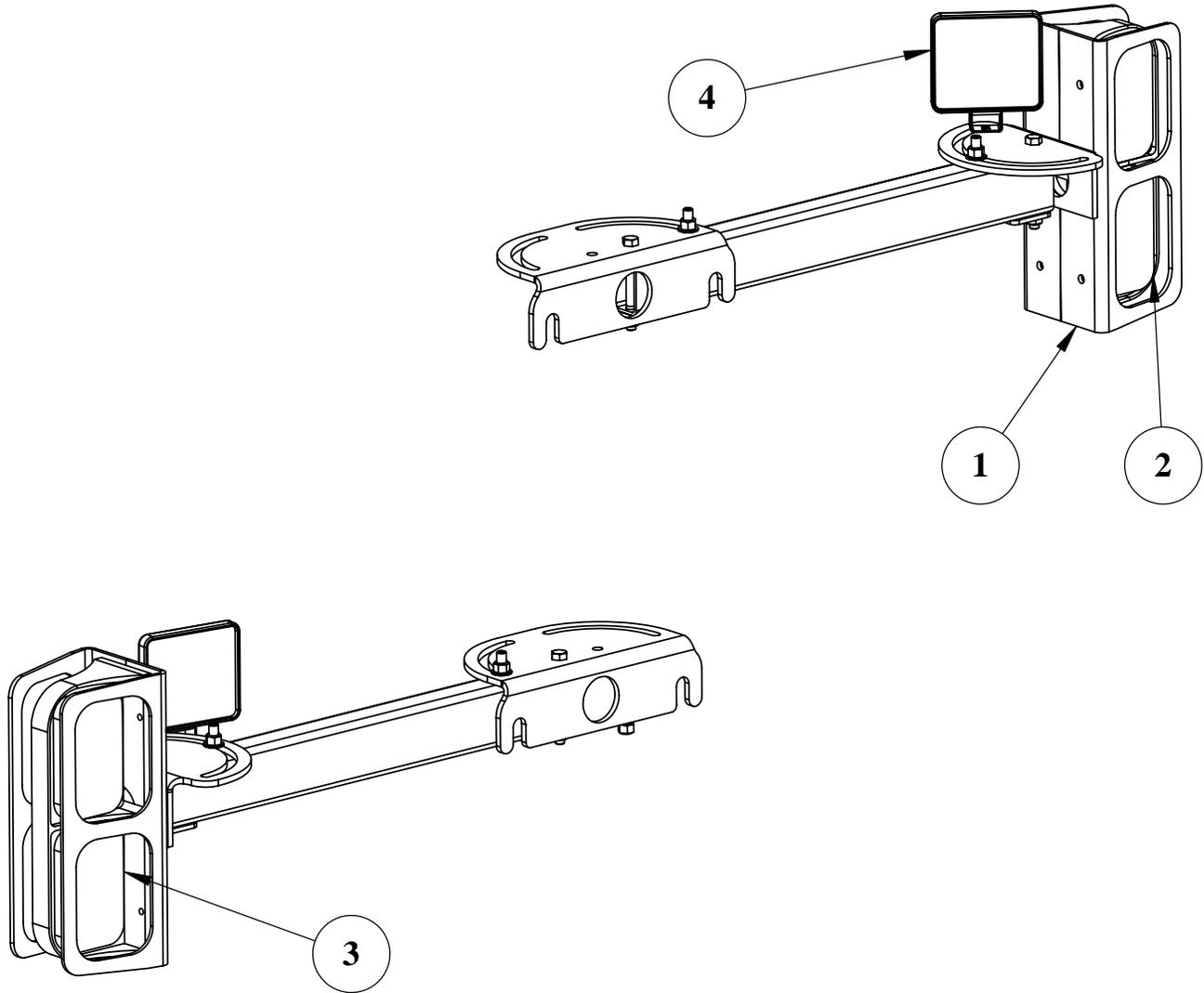
## 91350 Light Bar Schematic



LAST REVISED  
 Tuesday, March 03, 2009 8:53:57 AM

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## 72785 Running Light Assembly



ITEM #	PART #	DESCRIPTION	QTY.
1	72786	LIGHT BRACKET WELD	2
2	40762	LIGHT TURNING RH	1
3	40763	LIGHT TURNING LH	1
4	60984	WORK LIGHT LED	2
5	72855	WIRE HARNESS KIT GRAIN CART	1

LAST REVISED

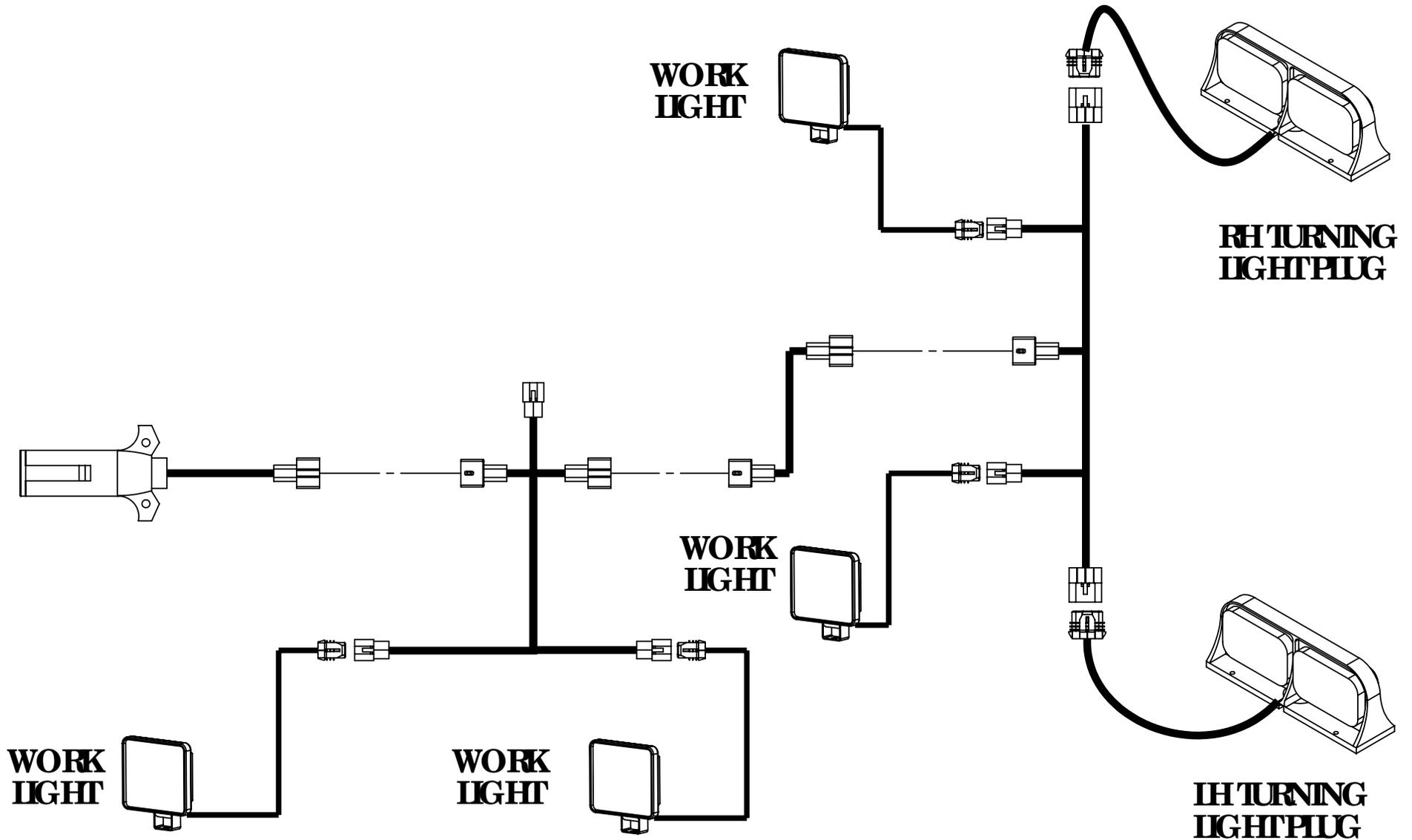
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# Parts

## 72785 Running Light Assembly



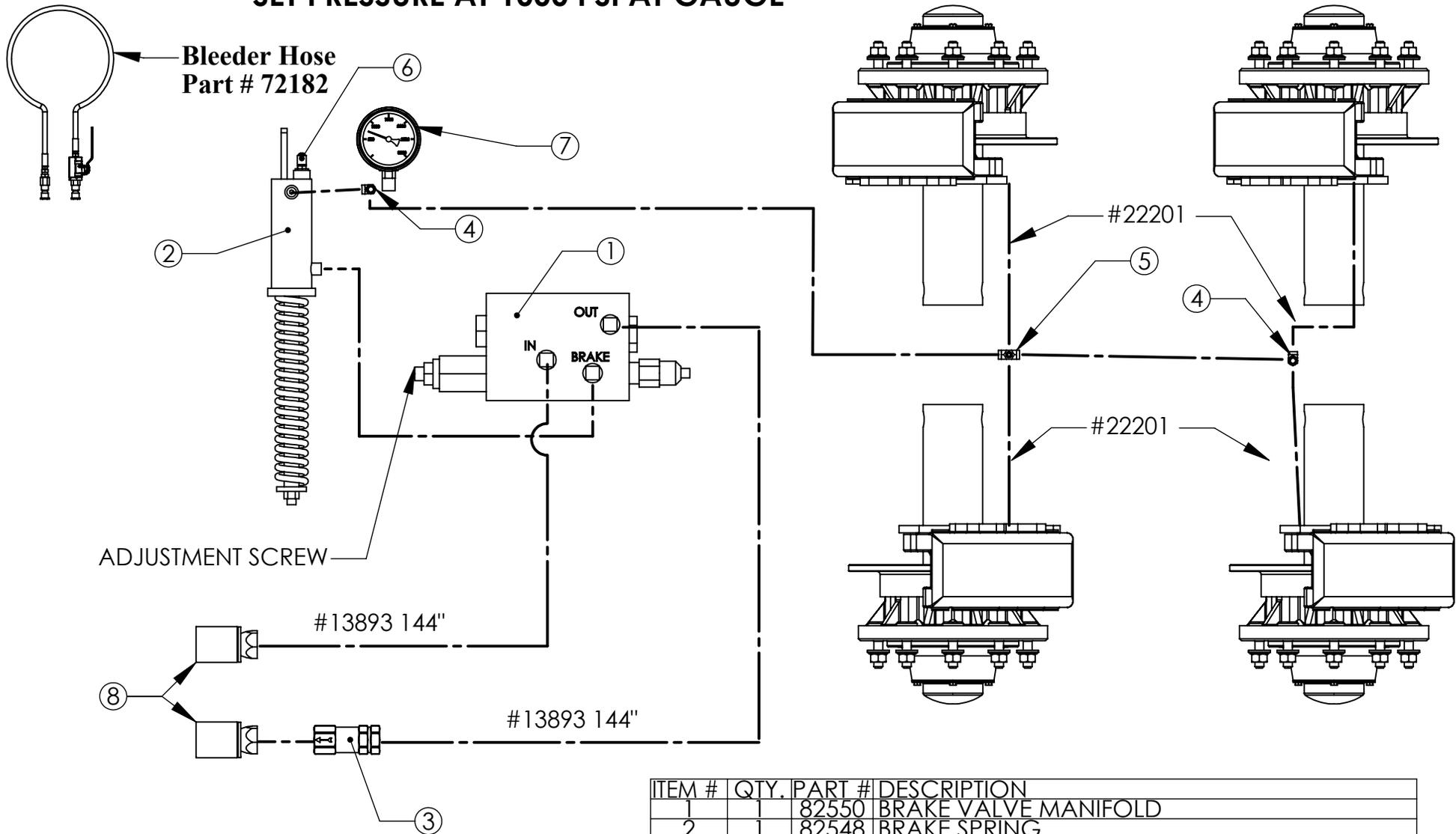
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# Parts

## Hydraulic Brake Return

SET PRESSURE AT 1000 PSI AT GAUGE



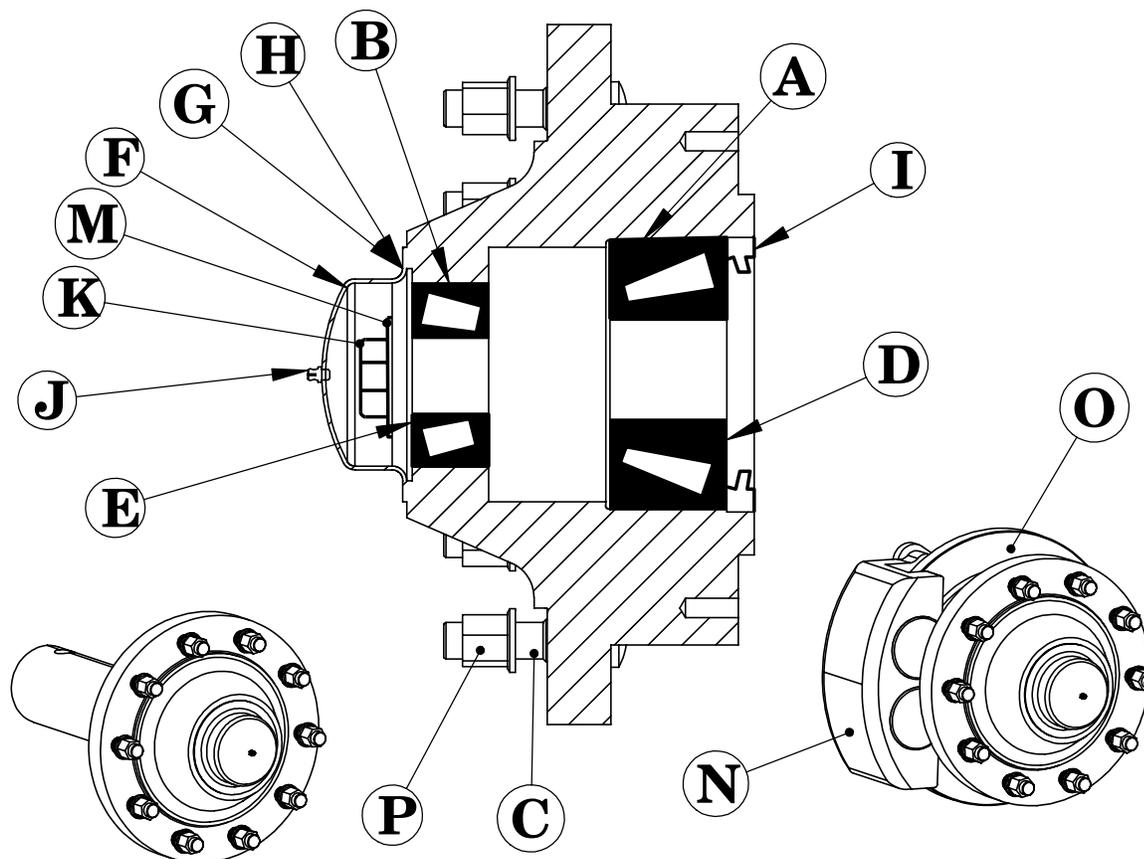
ITEM #	QTY.	PART #	DESCRIPTION
1	1	82550	BRAKE VALVE MANIFOLD
2	1	82548	BRAKE SPRING
3	1	10459	HYD VALVE CHECK .50" NPTFM x .50" NPTFM
4	2	9957	HYD TEE .25NPTFMX .25NPTFMX .25NPTFM (5605-4)
5	1	36069	HYD CROSS .25NPTFMX .25NPTFMX .25NPTFM (5
6	1	37521	FITTING TST PNT w/ METAL CAP
7	1	8638	GAUGE PRESSURE
8	2	8634	COUPLER QUICK .5NPT M&F SET

# BALZER 10-BOLT HUB AND SPINDLE PARTS BREAKDOWN

NEW PAGE

DESCRIPTION	10-BOLT 3"	10-BOLT 4"	10-BOLT 5" Ultra	10-BOLT 5" Dana*1020*	10-BOLT 5" Dana*2023*	10-BOLT 5" Dana*2033*	10-BOLT 5.75" IMT	10-BOLT 5.75" Ultra	10-BOLT 6" Ultra
HUB & SPINDLE NO BRAKE	14245	17872	91854	22402	22402		25216	91874	91855
HUB & SPINDLE, LH BRAKE			82189	22401	22401		25215		82192
HUB & SPINDLE RH BRAKE			82189	22400	22400		25214		82192
COMPLETE HUB ASSY	14287	17874	91850					91851	91851
HUB W/CUPS & STUDS	14335	17139	50814	21634	37356	50799	50393 *W/Drum*	50818	50818
INNER CUP	14325	17146	21651	21651	21651	21651	50395	50819	50819
OUTER CUP	14328	14325	21652	21652	21652	21652	50397	50820	50820
STUDS OR BOLTS	14326	19295	50400	21633	37354	50400	50400	50400	50400
WHEEL NUT	14329	19293	91849	14329	14329	91849	33123/91849	91849	91849
WHEEL NUT WASHER		19294			19294		33122/NONE		
INNER CONE	14324	17145	21622	21622	21622	21622	50394	50821	50821
OUTER CONE	14327	14324	21621	21621	21621	21621	50396	50822	50822
HUB CAP	14331	17149	17149	21630	21630	21630	50402	50823	50823
HUB CAP GASKET	14334	17147	17147	21629	21629	21629	50403	50824	50824
HUB CAP BOLTS	1183	1181	1181	1183	1183	1183	1183	1181	1181
SEAL	14322	17569	50815	21620	21620	21620	50711	50825	50825
GREASE ZERK	2291	2291	2291					2291	2291
COMPLETE SPINDLE	14288	17151	91856					91875	91857
SPINDLE	14288	17140	50816	21641	21641	21641	50404/52063	50829	50826
CASTLE NUT	14332	17143	50817					50827	50827
COTTER PIN/ ROLL PIN	2065	2074	81767					1953	1953
FLATWASHER	14330	17142	11814					50828	50828
SPINDLE LOCKWASHER				21624	21624	21624	50407		
SPINDLE STARWASHER				21623	21623	21623			
INNER SPINDLE NUT				21626	21626	21626	50406		
OUTER SPINDLE NUT				21625	21625	21625	50408		
BRAKE DRUM OR BRAKE ROTOR	15301	15301	91859	21643	37351			91858	91858
BRAKE CALIPER			91853					91853	91853
STUD BOLTS CENTER TO CENTER	11.25"	11.25"	13.2"	11.25"	11.25"	13.2"	13.2"	13.2"	13.2"
BRAKE MNTG. PAT.	6-8.25	6-8.25	10-11BC					10-11 BC	10-11 BC
WHEEL PILOT WHOLE	8.69"	8.69"	11.25"	8.69"	8.69"	11.25"	11.25"	11.25"	11.25"

## HUB AND SPINDLES 5" 10 BOLT 5" SOLID 13.18" BOLT CIRCLE



	DESCRIPTION	10 BOLT 5" ULTRA
	HUB & SPINDLE NO BRAKE	91834
	HUB & SPINDLE BRAKE HUB	91854
	HUB & SPINDLE BRAKE MOUNT	82189
	COMPLETE HUB ASSY	91850
	COMPLETE SPINDLE ASSY	91856
A	INNER TAPPER BEARING CUP	21651
B	OUTER TAPPER BEARING CUP	21652
C	STUDS OR BOLTS	50400
D	INNER TAPPER BEARING CONE	21622
E	OUTER TAPPER BEARING CONE	21621
F	HUB CAP	17149
G	HUB CAP GASKET	17147
H	HUB CAP BOLTS	1181
I	SEAL	50815
J	GREASE ZERK	2291
K	CASTLE NUT	50817
L	COTTER PIN/ROLLPIN	81767
M	FLAT WASHER	11814
N	BRAKE CALIPER	91853
O	BRAKE ROTOR	91859
P	LUGNUT	91849

seal kit# 52134

Brake pads# 52013

1/2 x 3 1/2 bolts hold rotor on hub grade 8

# BALZER HUBS SPINDLES

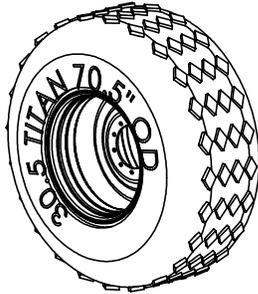
NEW PAGE

DESCRIPTION	4-BOLT 1.25"	5-BOLT 1.25"	6 BOLT 1.75" OLD	6 BOLT 1.75"NEW	6 BOLT 1.75"HD	8-BOLT 3" LIGHT	8-BOLT 3" HEAVY	10-BOLT 3"	10-BOLT 4"	10-BOLT 5" Ultra	10-BOLT 5.75" Ultra	10-BOLT 6" Ultra
HUB & SPINDLE	16302	22468	18240	18240	84030	13136	13145	14245	17872	91854	91874	91855
COMPLETE HUB ASSY		26735	12440	12440		14395	14411	14287	17874	91850	91851	91851
HUB W/CUPS & STUDS	12122	22467	12441	12441	84026	13137	13146	14335	17139	50814	50818	50818
INNER CUP	12161	12161	6574	6574	52146	13139	13149	14325	17146	21651	50819	50819
OUTER CUP	12161	12161	6663	6663	52145	13141	13141	14328	14325	21652	50820	50820
STUDS OR BOLTS	12167	12167	9089	50700	84032	13152	13152	14326	19295	50400	50400	50400
WHEEL NUT			NA	2605	2605	13496	13496	14329	19293	91849	91849	91849
INNER CONE	12160	12160	6573	6573	84027	13138	13150	14324	17145	21622	50821	50821
OUTER CONE	12160	12160	6665	6665	84028	13140	13140	14327	14324	21621	50822	50822
HUB CAP	12165	12165	6666	6666	52147	14393	14393	14331	17149	17149	50823	50823
HUB CAP GASKET								14334	17147	17147	50824	50824
HUB CAP BOLTS								1183	1202	1181	1181	1181
SEAL	12159	12159	6572	6572	36143(2)	13142	13151	14322	17569	50815	50825	50825
GREASE ZERK	2286	2286	2286	2286		2291	2291	2291	2291	2291	2291	2291
COMPLETE SPINDLE			18241	18241	84025	16789	14410	14288	17151	91856	91875	91857
SPINDLE	16303	16303				16788	13154	14288	17140	50816	50829	50826
CASTLE NUT	12163	12163	1754	1754	12163	13144	14336	14332	17143	50817	50827	50827
COTTER PIN/ ROLL PIN	2047	2047	2045	2045	2055	2045	14333	2065	2074	81767	1953	1953
FLATWASHER	NA	NA	6672	6672	6672	6672	14337	14330	17142	11814	50828	50828
WHEEL MNTG. PAT.	4-4 BC	4-4 BC	6-6 BC	6-6 BC	6-6BC	8-8 BC	8-8 BC	10-11.25	10-11.25	10-13.2	10-13.2	10-13.2
BRAKE MNTG. PAT.	NA	NA	NA	NA		8-5.5 BC	8-5.5 BC	6-8.25	6-8.25	10-11 BC	10-11 BC	10-11 BC
HUB FACE TO HOLE	4.75	4.75	7 7/8	7 7/8	7 7/8	8 15/16	9 13/16	7 7/8	8 3/16			
BRAKE FACE TO HOLE	NA	NA	NA	NA		7	7	6 1/4	6 1/4			
WHEEL PILOT WHOLE	2.5	2.5	4.5	4.5	4.5	6	6	8.69	8.69	11.25	11.25	11.25

7/27/2009

## TIRE ASSEMBLIES

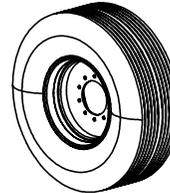
### DIAMOND R3



### LUG R1



### RIBBED



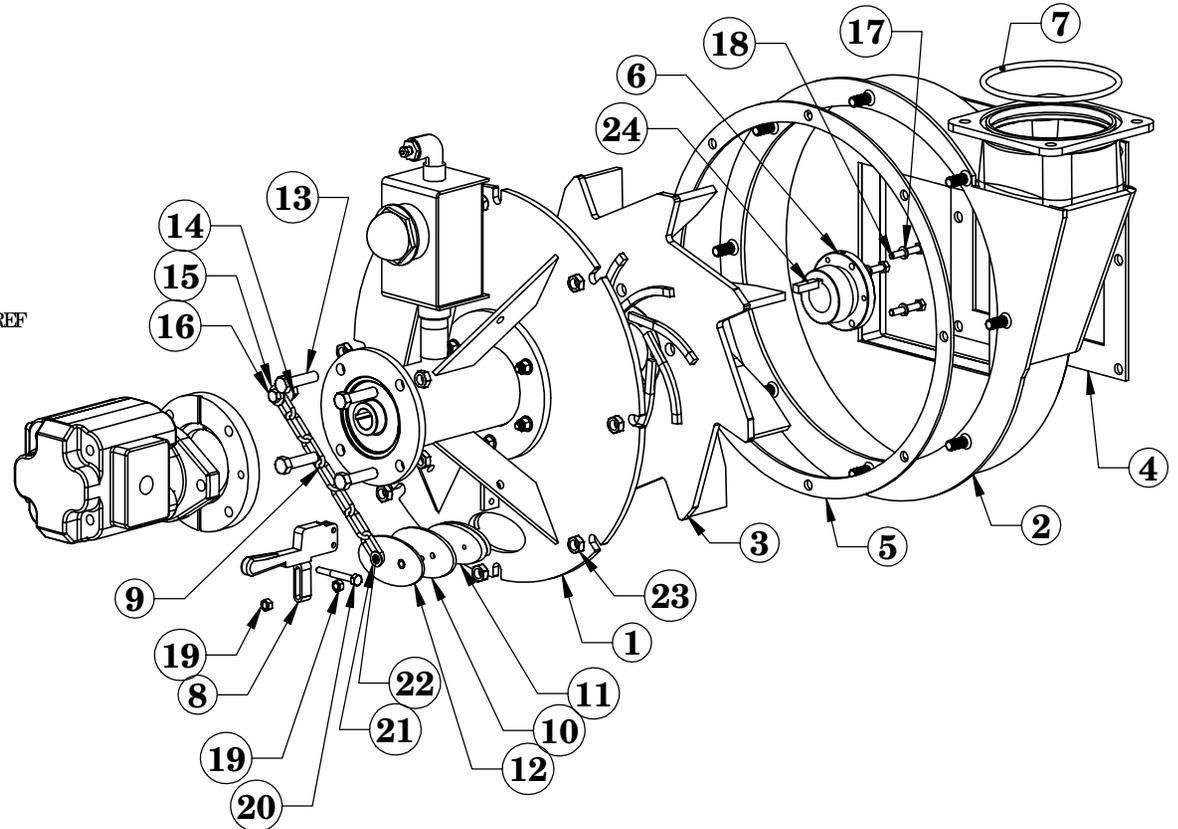
TIRE/ RIM	TIRE / RIM #	TIRE #	RIM #	TIRE PRESSURE
12 X3 RIBBED	18076			
18.5 - 4 BOLT - 5.50"BC	17511	17512	17513	
20.5 x 8 - 5 BOLT - 4.50"BC	26737	26733	26734	
P205/75R15 - 5 BOLT - 6.00"BC	31530		31529	
14 x 7.5 - 6 BOLT	27889			
11L x 15 - 8 PLY - 6 BOLT	31006			
9.5L x 15 - 8 PLY - 6 BOLT	65670		65671	
15 x 22.5 SUPER RIGR - 8 BOLT - 8.00" BC	62061	92390	92391	
15 x 22.5 SUPER RIGR - 10 BOLT - 11.25" BC	65561	92390	65562	
18.4 x 26 R3 - 10 BOLT - 11.25" BC	20283	20284	20285	23
18.4 x 26 R3 - 10 BOLT - 13.19" BC	28205	20284	27676	23
21.5 x 16.1 RIBBED - 8 BOLT - 8.00" BC - 18.00" WHEEL	26633	11472	26634	32
21.5 x 16.1 RIBBED - 10 BOLT - 11.25" BC - 18.00" WHEEL	90128	31432	90129	32
23.1 x 26 R3 - 10 BOLT - 11.25"BC	18531	16515	16516	32
23.1 x 26 R3 - 10 BOLT - 13.19"BC	28796	16515	28797	32
28L x 26 R3 - 10 BOLT - 11.25"BC	17610	17611	17612	26
28L x 26 R3 - 10 BOLT - 13.19"BC	28386	17611	28387	26
28LR26 R3 - 10 BOLT - 13.19"BC	91882	92639	28387	54
30.5 x 32 R1 - 10 BOLT -13.19"BC	91340	91341	27385	33
30.5 x 32 R3 - 10 BOLT -13.19"BC	27674	22692	27385	33
30.5LR32 R1 - 10 BOLT -13.19"BC	91586	94587	27385	52
30.5LR32 R3 - 10 BOLT -13.19"BC	92640	92641	27385	52
445/65 R22.5 L1 8 BOLT - 8.00"BC	83780	91889	20033	
445/65 R22.5 L1 10 BOLT - 11.25"BC	14246	91889	91884	
445/65 R22.5 L1 10 BOLT - 13.19"BC	92880	91889	92881	
600/50 22.5 - 8 BOLT - 8.00"BC	91777	25551	91888	38
600/50 22.5 - 10 BOLT - 11.25"BC	25550	25551	25552	38
850/50 30.5 - 10 BOLT - 11.25"BC	29978	40977	29999	37
850/50 30.5 - 10 BOLT - 11.25"BC - 8 PLY	91128	91129	29999	37
850/50 30.5 - 10 BOLT - 13.19"BC - 10 PLY	40976	40977	40978	37
900/60 32 R1 - 10 BOLT - 13.25"BC - 0" OFFSET	91900	91901	27385	35

# Parts

## 83715 Hydraulic Slurry Pump

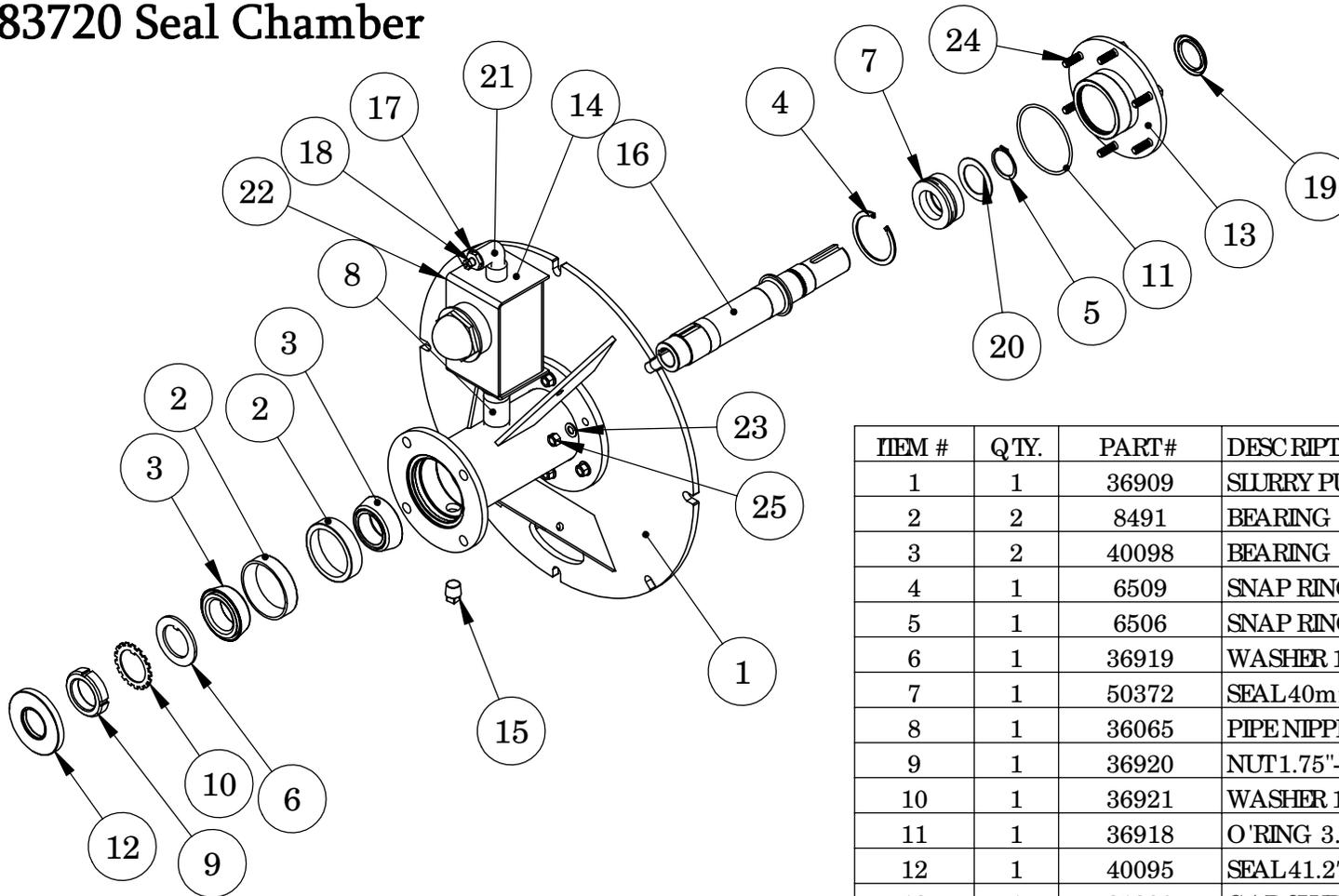
ITEM #	QTY.	PART#	DESCRIPTION
1	1	83720	SLURRY PUMP SEAL CHAMBER -HYD A36
2	1	71931	MAGNUM DAIRY PUMP HOUSING (A36)
3	1	81300	IMPELLER 8 BLADES 17 1/2" (A36)
4	1	16036	GASKET 12 x 12
5	1	16034	GASKET RUBBER .19x19.62"OD
6	1	81770	Q D BUSHING
7	1	15621	O RING 6.31"ID x6.87"OD x.28"TH -6" FLANGE VALVE
8	1	33001	TOGGLE CLAMP/ SLURRY
9	1	71896	CHAIN STRAIGHT LINK 5/0 (7 LINKS)
10	1	71887	GASKET NEO PRENE 3/16"
11	1	71879	DRAIN SLURRY WELD
12	1	71888	PLUG DRAIN OUTER COVER
13	4	1252	BOLT HEXHEAD .5" x 2" GR D5
14	1	2082	NUT .37 WHIZ LOCK
15	1	1598	FLAT WASHER .37"
16	1	1207	BOLT HEXHEAD .37" x 1.25" LG
17	3	1635	Lock Washer 5/16"
18	3	18911	BOLT HEXHEAD .31" x 1.87" LG -STAINLESS STEEL
19	2	2475	NUT TO PLOCK .31" - 16 UNC
20	1	1191	BOLT HEXHEAD .31" x 2.50" LG -18 UNC
21	1	1596	FLAT WASHER .25"
22	2	1165	BOLT HEXHEAD .25" x 1.25" -UNC 20 GR 5
23	12	2539	NUT TO PLOCK .50"-20 UNC
24	1	2400	KEY .37" x .37" x 1.37" LG
25	1	33316	HYD MOTOR 6.35 CU/IN 26 GA.
26	1	41456	SLURRY PUMP 98' HYD DRIVE

REF



# Parts

## 83720 Seal Chamber

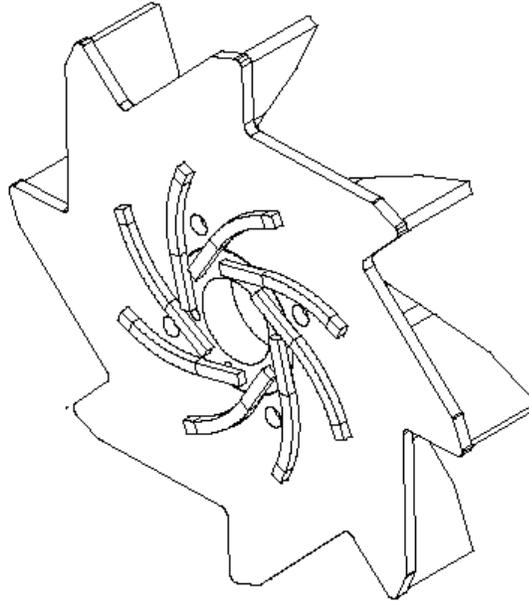


ITEM #	QTY.	PART#	DESCRIPTION
1	1	36909	SLURRY PUMP CHAMBER (A36)
2	2	8491	BEARING CUP
3	2	40098	BEARING 1.75" CONE
4	1	6509	SNAP RING INTERNAL 68mm x 2.4mm
5	1	6506	SNAP RING EXTERNAL 40mm x 1.6mm
6	1	36919	WASHER 1.75" TONGUED
7	1	50372	SEAL 40mm MECHANICAL ASSY
8	1	36065	PIPE NIPPLE 1.00" NPTM x 1.00" NPTM x 3.00" LG
9	1	36920	NUT 1.75"-18 CLASS 2B SPANNER
10	1	36921	WASHER 1.75" TANGLED STAKING
11	1	36918	O'RING 3.609" ID x .139" THCK
12	1	40095	SEAL 41.27mm x 90mm x 10mm
13	1	81290	CAP SLURRY SEAL
14	1	36930	OIL RESERVOIR -SLURRY
15	1	8907	PIPE PLUG 1/2" NPT SQ. HEAD
16	1	83719	SHAFT DAIRY PUMP W/HYD
17	1	13038	HYD REDUCER .50" NPTM x .12" NPTM - (
18	1	13097	BREATHER .12" NPT BRASS, 5# PSI VENT
19	1	17054	SEAL 40 x 57 x 4.5mm AFS
20	1	61441	SHIM 1 5/8" x 18 GA <span style="background-color: yellow;">not there</span>
21	1	8215	PIPE ELBOW .50" NPTM x .50" NPTM x 90 DEG
22	1	71976	DECAL FILL ONLY 890 VARI-PURPOSE
23	6	37090	FLATE WASHER .37" BRASS
24	6	1208	BOLT HEXHEAD .37" x 1.50" LG
25	6	2496	NUT TO PLOCK .37"-18 UNC

## IMPELLER BLADE OPTIONS

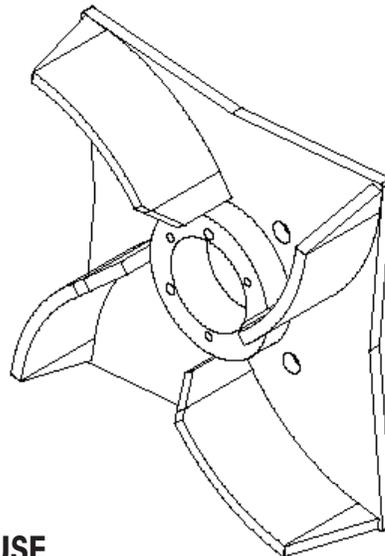
### 17 1/2":

The 17 1/2" Impeller blade is available for Slurry Tanks with the Magnum Pump option. The part # is: 81300.



### 15":

The 15" Impeller blade is available for Slurry Tanks With the Magnum Pump Option. The Part # is: 33049.

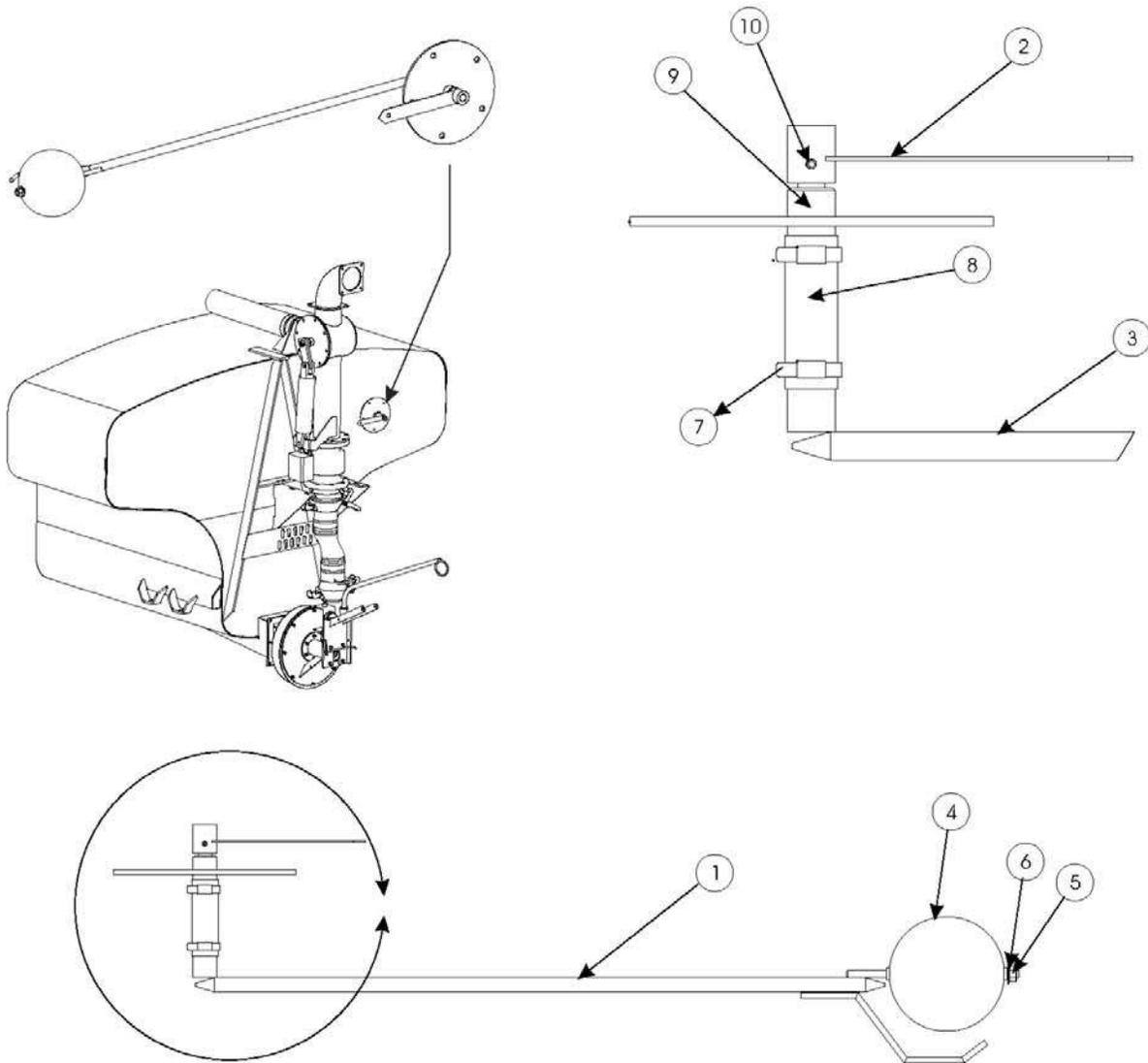


**NOTE: BOTH THE 17 1/2" AND THE 15" BLADES USE THE SAME PTO AND THE SAME HYDRAULIC HOUSING CHAMBERS.**

# Parts



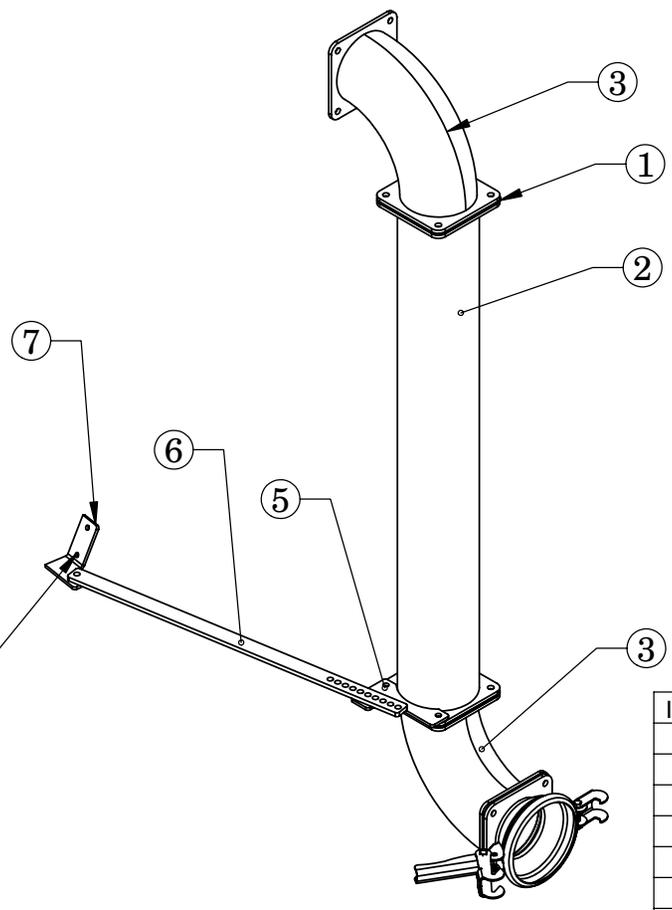
ITEM #	QTY	PART #	DESCRIPTION
1	1	10949	INDICATOR
2	1	15904	FLOAT PLATE
3	1	40404	FLOAT WELD SS
4	1	17024	BALL SS FLOAT ARM 6"
5	1	37454	NUT .37" TOPLOCK HX HD SS
6	1	37455	FLATWASHER .37" SS
7	2	10912	HOSE CLAMP 1" -2"
8	1	10952	SEAL HOSE
9	1	2288	ZERK 3/16 DRIVE IN W/BALL
10	1	1908	1/4" PIN SPRING 1 1/2" LONG



**5TH WHEEL FLOAT ARM (40401)**

ECO#	REV	NOTES	DATE	DRWN	APR
		RELEASED	03/08/05	G.JH	PB
xx		XXXX	xx	xxx	xx

**THIS OPTION IS TO ALLOW SLURRY TO BE DUMPED LOWER TO GROUND AND TO SUPPORT DISCHARGE TUBE**



**TO BE DRILLED AND SECURE TO TANK BOTTOM SUPPORT**

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	3	16035	GASKET .18 x 7.5 x 7.5 W/6"ID
2	1	83377	TUBE DISCHARGE 6" 48" LG
3	2	80377	CUT ELBOW W/FLANGES
4	1	15564	COUPLER, FLANGED FEMALE
5	1	83358	BRKT TUBE ADJUSTING
6	1	83359	BRKT ADJUSTABLE TUBE ON TANK
7	1	83376	PLATE FORMED 4" X6" X 1/4 W/HOLES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES & TOLERANCES ARE		<b>BALZER INC.</b>	
WELD .06	FAB .03	CO. HWY 27 E	507-427-3133
		MT. LAKE, MN	800-795-8551
TO ASSEMBLY	MATERIAL <b>SEE BILL OF MATERIALS</b>	PART NAME	
TO PAINT	WHERE USED	<b>DISCHARGE TUBE W/ ADJUSTABLE SUPPORT</b>	
WELD	LAST SAVED BY <b>Frank</b>	<b>LOWER TO GROUND</b>	
PROCEDURE	DESIGN <b>SV</b>	LAST SAVED DATE <b>Tuesday, March 08, 2005 5:17:27 PM</b>	DWG NO <b>83379 SW</b>

# Parts



**IT IS THE POLICY OF BALZER COMPANY TO CONSTANTLY IMPROVE ITS PRODUCTS WHENEVER IT IS PRACTICAL TO DO SO. THEREFORE, BALZER COMPANY RESERVES THE RIGHT TO REDESIGN OR CHANGE ITS EQUIPMENT OR COMPONENT PARTS THEREOF WITHOUT INCURRING THE OBLIGATION TO INSTALL OR FURNISH SUCH CHANGES ON EQUIPMENT PREVIOUSLY DELIVERED.**

## **INSTRUCTIONS FOR ORDERING PARTS**

To enable our customer service department to provide you with the correct replacement parts promptly and accurately, follow the ordering instructions as listed below.

Identify your equipment by serial number whenever possible.

Use part numbers and descriptions from the illustration drawings furnished to assist in identifying the needed parts.

Owners, order all parts through your local dealer.

Dealers must indicate company name, shipping point and mailing address for notification if different from shipping point. State whether freight, express, parcel or other handling is desired.

Send all parts to:

Balzer Inc.  
County Road 27 East  
PO Box 458  
Mountain Lake, Mn 56159



## **INSTRUCTIONS FOR RETURNING PARTS FOR ADJUSTMENT**

Dealers should inspect all parts when received. Shortages or damage should be noted by the carrier agent at the time the parts are accepted. Shippers responsibility ceases upon delivery of shipment to customer in good order. Claims for damage, loss, or malfunction are to be reported within thirty (30) days for warranty considerations.

All returned parts must have return authorization, a copy of the original packing list and transportation prepaid.

For replacement parts contact:

Ken Classen                      Extension 104  
Doug Wellman                  Extension 108

For Service Contact:

Dave Bennett                  Extension 134

**Phone Number:      (800) 795-8551**

**(800) 727-3133**

**Main:                      (507) 427-3133**

**Fax Number:          (507) 427-3640**

**Website: <http://www.balzerinc.com>**

